JPMORGAN CHASE WHALE TRADES: A CASE HISTORY OF DERIVATIVES RISKS AND ABUSES

HEARING

BEFORE THE

PERMANENT SUBCOMMITTEE ON INVESTIGATIONS

COMMITTEE ON HOMELAND SECURITY AND GOVERNMENTAL AFFAIRS UNITED STATES SENATE

ONE HUNDRED THIRTEENTH CONGRESS

FIRST SESSION

VOLUME 2 OF 2

MARCH 15, 2013

Available via the World Wide Web: http://www.fdsys.gov/

Printed for the use of the Committee on Homeland Security and Governmental Affairs



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92.	using Investment Grade strategies that gave us some carry or buying optionality (or both)). [JPM-CIO-PSI 0001100-106]	914
	London / CIO and Volcker (We do not believe that our activity in any way goes against the law as passed by Congress, nor the spirit or proposed rule as written.). [JPM-CIO-PSI-H 0002418]	921
93.	JPMorgan Chase internal emails, dated April 2012, re: CIO (Doug and I asked that the first day. Answer was it most "efficient" way to do	021
	it. I would say they just wanted to improve the carry on the book by selling protection and taking in some premium.). [JPM-CIO-PSI 0001753-757]	922
	Excerpt from April 13, 2012, JPM—Q12012 JPMorgan Chase & Co. Earnings Conference Call [JPM—CIO—PSI 0001151—160]	927
90.	JPMorgan Chase internal email, dated May 2012, re: 10-Q call—Buyside and sellside comments (2) (Have a lot of contacts in Washington who said this is going to be a big deal for Volcker; need to manage this in DC because the hit there is going to be a lot bigger than the hit on earnings). [JPM-CIO-PSI 0017754-758]	
96. 97.	on earnings). [JPM-CIO-PSI 0017754-758]	937 942
	February 4, 2013 (my statements on April 13 regarding those hedging characteristics were references to the portfolio's design and historical	
98.	performance as a hedge. I was not commenting on the hedging effectiveness of the portfolio as of April 13.). [PSI-JPMC-35-000001]	962
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100.	a. Responses to supplemental questions for the record from Douglas Braunstein and Michael Cavanagh, JPMorgan Chase & Co., with	1095
100.	b. SEALED EXHIBIT: Attachments to supplemental questions for the record from JPMorgan Chase & Co	1099
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102.	Documents cited in footnotes to JPMorgan Chase Whale Trades: A Case History of Derivatives Risks & Abuses, the Report released in conjunction with the Subcommittee hearing on March 15, 2013. A Document Locator List provides bates numbers and document descriptions of the documents cited in the Report. Not included are documents related to Subcommittee interviews, which are not available to the public, and widely excepted.	1904
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^{*} SEALED EXHIBITS retained in the files of the Subcommittee.

** On CD retained in the files of the Subcommittee and available for public review.

JPMC & COMPANY CIO Synthetic Credit Portfolio

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CIO Update Provided By the Firm

As far back as 2006, CIO's mandate was to act as a traditional ALM function with multiple priorities, including investing the firm's excess cash, managing the firm's pension fund and capital hedging (mitigating stress events).

- From inception through year-end 2011, the CIO activities indicated that the firm was acting under this mandate.
- •Going into 2012 the firm had short high yield credit positions and as the market conditions were improving, CIO sought to lift these hedges.
- To achieve the goal of reducing the short high yield positions, the CIO desk entered into a significant long credit position via investment grade indices (IG-9). From a notional perspective, the firm was net long credit.
- The firm believed that due to the historical correlation (beta) of the tranches of the IG-9 index, they were getting into a neutral position by going long 4-5 times the high yield short positions.
- •The firm concedes that at this point, the CIO desk was no longer hedging its book and had real exposure to high yield verses investment grade as the historic relationship between them changed. Essentially, the macro hedge no longer represented a hedge against their bank portfolio once the desk was net long credit. JP senior management has described the trade as mismanaged and poorly executed.

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- In late March, the firm started to see days of significant losses in the hundreds of millions
 of dollars. Ina Drew (CEO of CIO) first explained to management that the dislocation of
 the markets was an anomaly and the historic relationship would eventually revert to the
 mean. She expected that the CIO desk would end the quarter between -150mm and up
 250mm in p/l.
- On April 5, the "London whale" story ran and the position continued to experience significant losses. Losses totaled approximately \$415 million on April 10, 2012.
- The feeling inside the firm was that the trade was too big, the market knew their holdings and that they were being attacked or targeted causing the positions to continue to deteriorate. At this point they still believed that the price levels would revert to the mean.

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 Redacted by the Permanent Subcommittee on Investigation

Tinseline

- April, 4-6: News reports that in recent weeks investors have been puzzled by unusual movements in credit markets citing a JPM-UK trader with "deep pockets" putting on large credit trades and dubbed "the London Whale". Bloomberg reports of the "London Whale", a JP Morgan trader amassing a large positions in the CDX IG Series 9 and the European ITRAXX Series 9 Indices.
- FDIC onsite staff contact the OCC and NY Fed to inquire about the news reports .
- April 9: OCC and NY Fed meet with Ina Drew to discuss the reported trades.
- April 12: Pre-earnings release meeting with Regulators (including the FDIC) with CFO Doug Braunstein. Mr. Braunstein reports that there are no problems within the ClO book.
- April 13: Jamie Dimon told analysts that the media attention on the big bets taken by one of the bank's traders in London, dubbed the London Whale, was "a complete tempest in a teapot." The Wall Street Journal reported that trader Bruno Michel Iksil, who is part of the bank's chief investment office, has a very large position in credit default swaps in corporate bonds and some hedge funds are betting against him. Asked about the trades by an analyst on a conference call, Dirnon said: "Every bank has a major portfolio."

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Timeline Cont'd

- April 13: Bloomberg runs story regarding the credit trades and states that CIO is being used as a proprietary book.
- April 16: FDIC, OCC and NY Fed meet with Ina Drew who provides an overview of the synthetic credit book and its recent rebalancing. P&L scenarios were presented and discussed at this time. Analysis indicates high stress loss of hundreds of millions of dollars.
- April 19: FDIC onsite team attends regularly scheduled monthly meeting with the NY Fed.
 Team raises topic of CIO and synthetic credit book and told that there were no issues with which they should be concerned.
- May 4: Firm discusses the \$2 billion loss with the OCC and the NY Fed.
- May 10: JPMC announces unrealized losses of \$2 billion in their synthetic credit position in the CIO portfolio in the past six weeks. The firm continues to announce changes in strategy and management for the CIO portfolio. FDIC learns of loss with the public announcement.
- May 21; SEC begins investigations into the appropriateness and completeness of JPMC's financial reporting, specifically addressing the value-at-risk (VaR) model for CIO and whether it was applied in a way that allowed the portfolio to appear safer.
- May 21: JPMC suspends repurchases of its stock, but intends to continue dividends navments.
- May 24: The chairman of the Senate Banking Committee request s that Jamie Dimon testify before the panel.

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Obse ations Prior to Loss Announcement

- In 2010, the OCC issued an MRA addressing Issues in CIO investment policies and portfolio decisions.
 In particular, the OCC noted a need to clearly define the processes used to manage investments and to identify objectives and investment parameters.
- JP Internal Audit reviewed EMEA CIO Credit-Market Risk and Valuation Practices and noted "needs improvement" on March 30, 2012. Deficiencies noted include:
- ... Use of unapproved models
- Insufficient consideration of potentially applicable fair value adjustments
- Lack of formally documented/consistently applied price testing thresholds
- .. Exclusion of strategic asset allocation book from the firm wide market risk limits framework

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CIO Luck of Transparency

- Minimal reporting to the regulators, FDIC only received quarterly Executive Management Report for CIO which contained mostly balance sheet information.
- No reporting of VaR, limit utilization or CIO P&L to the regulators.
- FDIC did not attend regular meetings to discuss CIO. It is our understanding that only quarterly
 meetings were held between the OCC and the firm.
- Other areas of the firm, such as the investment bank, provide much greater transparency. Evidenced by weekly, monthly and quarterly meetings with the firm to discuss credit and market risk issues, as well as Treasury issues. P&L reported to the regulators on a daily basis together with periodic reporting regarding limits and exposures.

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Firm olf Assessment

- Special team led by Mike Cavanagh to evaluate transaction timeline and the risk management controls in place, including reporting and limits.
- Outside counsel engaged to review all supporting documentation including emails and other correspondence.
- . Firm focused on what issues were escalated, to whom and when.
- Review of the two VaR models used from January 2012 to date, including governance around the models.
- Evaluate the history and role of compensation in CIO's trading strategy.
- JPMC Board of Directors has established an independent committee to assess the situation.
- Firm would like to complete its work so that it can disclose results to the public at its July 19 analyst meeting.

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Regul, .or Work Plan Focus

- Firm's current financial and funding profile.
- CIO mandate and operations of individual business lines.
- Potential risk of synthetic credit trading portfolio to the firm.
- CIO models and valuation methods.
- Potential range of losses in portfolio and impact on lead bank's ability to continue dividends to the holding company.
- Strength of risk management, governance and control framework.
- Volcker Rule implications.

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CIO Overview

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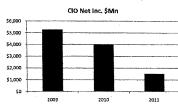
Firm Summary of CIO

- CIO is responsible for managing the firm's structural risks (e.g., interest rate risk, macro credit risk, FX capital risk, MSR hedging).
- Traditional asset / liability management (e.g., invest excess liabilities).

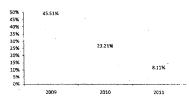
 55,000
 54,000
 54,000
- Focus on long-term risk management and value, not short-term profits.

 \$2,000

 \$2,000
- Reported mark-to-market gains for the CIO AFS investment portfolio are ~\$8B (reflects ~\$1B of securities gains realized in 2Q12).
- Since 1Q07, CIO has generated ~\$21B in cumulative revenue – associated with ~\$11.5B cumulative net income.



CIO % of Firms Total Net Inc.



* Information provided by JP Morgan 10Q Q1-20

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Por plio Mix (as of 1Q12)

1 Investment Portfolio: primary tool for traditional asset / liability management (e.g., investing firm's excess liquidity)

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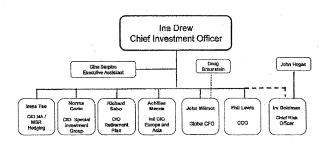
- 2. Synthetic Credit Book: tool for managing the firm's credit risks, primarily those arising from the CIO
- •Revenue recognized as mark to market
- -\$157B of notional net exposure (\$78B BIII RWA)
- Other Portfolios: additional portfolios used to manage the firm's aggregate franchise balance sheet and structural risks (e.g., FX capital hedging, MSR hedging, other MTM position)
- •Revenue primarily recognized as mark-to-market

* Information provided by JP Morgan CIO_Fed_OCC_discussion

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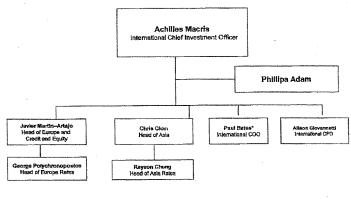
Chief Investment Office – Direct Reports



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International CIO

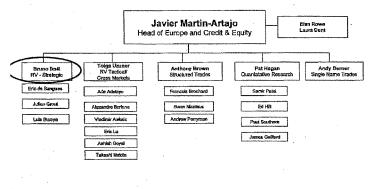


"Reports to Phil Lowis - CIO Global COO

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International Chief Investment Office

Equity and Credit



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CIO Tapresents the Majority of the Firm's AF Portfolio

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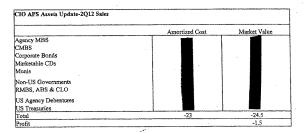
CIO Balance Sheet

Internal Uquidity Stress - Available Collateral CIO AFS Positions as of 3/31/2012 Agency MBS
COMBS
Corporate Bonds
Marketable CDs
Munis
Non-US Governments
RMBS, ABS & CLO
US Agency Debentures
US Treasuries
Total 352.3 8.4 Total 343.9

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The firm sold \$24.5Bn in securities that realized approximately \$1 Bn in gains.



Amortized Cost: price as adjusted over time for accounting changes in any discount or premium.

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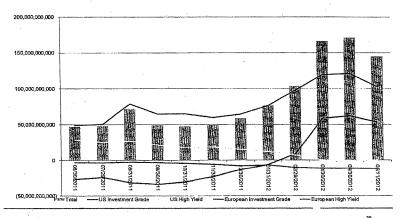
Summary of the Synthetic Credit Position in the CIO Portfolio

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Syntheuc Credit Book Issue Overview

JPMC buys and selfs various synthetic credit indexes as a tool for managing the firm's credit risks arising from CIO securities investments and the firm actively invests in various index relationships.

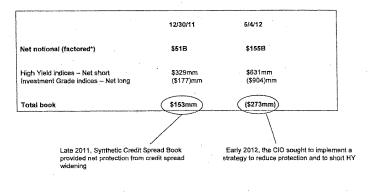


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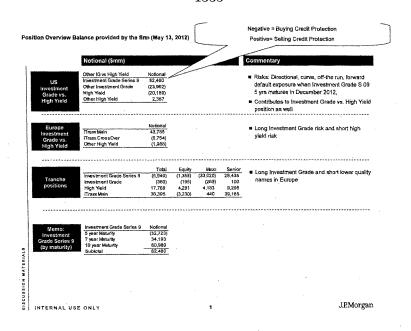
Ove. .iew of Synthetic Credit Book Repositio...ing

- Late in 2011, the synthetic credit position was long credit protection in high yield (HY)
- Early in 2012, CIO sought to be short credit protection in investment grade (IG)



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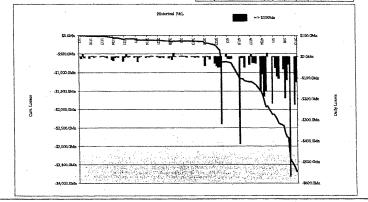
21



CIO Historical Profit and Loss

- P&L for Synthetic Credit Book began to show significant losses at the end of March 2012 Total Year to Date Loss is \$3.7Bn as of May 15th
 • Q1 \$700Mn
 • Q2 \$3.08n

Dates of the Party	LETTER SEZOGNATIVE TO YOS SHOULD SELECT
30-Mar	\$ (319,192,503)
10-Apr	\$ (415,342,049)
30-Apr	\$ (222,070,242)
11-May	\$ (570,159,849)
14-May	\$ (227,592,775)



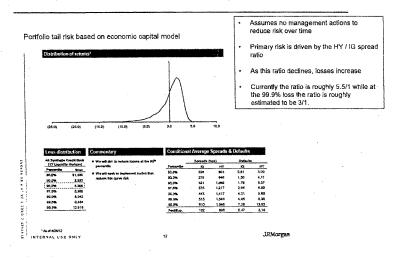
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Firm Stress Losses for Synthetic Credit Portfolio

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Fi. .'s extreme tail loss estimate for 1 Yea .s over \$12Bn



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Summary of Synthetic Credit Book Risk Factors (May 30, 2012)

- The firm leveraged its strategy by investing in combinations of credit indexes.
- Primary strategies include the six listed below.

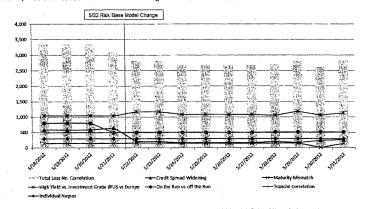
Est. Quarterly Loss Potential (Using 5yr Historic Data)

Directionality (exposure to spread widening)	\$436Mn
2. Curve (long vs. short)	\$10Mn
Decompression (IG vs. HY)	\$2,037Mn
a. Crossover verses Itraxx	\$143Mn
b. Europe verse US	\$12Mn
4. Off- the-Run (older vs. newer issues)	\$0.0Mn
5. Tranche (Senior vs. Equity)	\$505Mn
6. Individual Names Default	\$0,0Mn
Partfolia Worst 3 Months:	\$ 1.8Bn
Sum of without diversification	\$ 3.1Bn

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Risk ≥rofile and Attribution

Reductions in risk contribution were in "Credit Spread Widening" and "On the Run Vs. Off the Run" but at the expense of an increase in basis between "High Yield vs. investment Grade



 Methal Risk Factors are stressed to the 95% confidence level independently with other factors held constant to calculate individual effect a on PAL Therefore it is summer there is no diverpitation/correlation benefit. Total Loss including correlation? should result from a pirruitaneous move in all fast factors to the 95% confidence level. Bases on JPM view of risk on each Researching Dec.

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VaR

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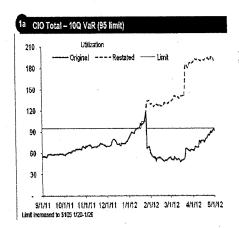
Changes in the VaR Model

In early January, CIO exceeded its Value at Risk (VaR) limits. These excesses were approved as CIO argued that the VaR model in use (Model A) was overestimating risk in the CIO portfolio.

- •On January 20th 2012, the VaR limit was increased temporarily from \$95 mm to \$105 mm. Even after this increase, the VaR utilization continued to remain over its new temporary limit of \$105 mm with a maximum utilization of \$120 mm.
- •On January 26th, a new VaR model (Model B) was implemented. The firm believed the new model captured the risk of the synthetic credit portfolio more effectively. After implementing the new model the VaR utilization went down significantly. The VaR limit was changed back to \$95 mm.
- Over the course of the next few months, the maximum VaR utilization increased from \$59MM in February to approximately \$95mm in April:
- •On May 10th, the firm realized that the Model B may be actually understating risk in the Synthetic Credit portfolio and decided to revert back to Model A. As a result of this change, the VaR for CIO shot up from \$94 mm to \$147 mm in one single day
- •This increase in VaR caused both CIO and firm-wide limit breaches. Both limits were increased temporarily the CIO limit was increased from \$95 mm to \$160 mm and the firm wide VAR limit was increased from \$180 mm to \$200mm.
- •The firm recalculated the VaR for the 10Q filing for the first quarter.
- •The firm has acknowledged that the weakness in Model B was due to flawed implementation,

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CIO Synthetic Credit VaR Model (New vs. Uld)



- •The dotted blue line represents VaR estimates restated using the old methodology.
- •The solid blue line after January 2012 represents VaR under the new methodology.
- •The orange line represents the established VaR limits.

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JPN.J 10Q for First Quarter 2012

CIO VaR increases 238% (+ \$131Mn)

The table below shows the results of the Firm's VAR measure using a 95% confidence level.

Total IB trading VaR by risk type, Credit portfolio VaR and other VaR

	_		_	2012	:				\mathcal{I}			201	1					At Ma	rch :	81,
(in millions)		Avg.		Min		,	Kax		1:	vg.		Min		M	ax		26	312		2011
IB VAR by risk type					-			1												
Fixed income	\$	60		\$ 47		\$	73	- /	\$.	49	\$	44	15		6		\$ 4	59	5	55
Foreign exchange		11		8			22	-/-		11		9		1	17		1	14		12
Equities		17		12			25	/		29		19			12		1	17		22
Commodities and other		21		16			27	/		13		8		- 1	90			16		10
Diversification benefit to IB trading YaR		(46) ⁴	<u> </u>	NIZ	60		NM	/s	_ (38) 😘		NM	Dil	N	М	8 4	- 51	62) ⁽⁴⁾		(37) tet
18 trading YaR		63		50			79/			64		40			30			54		61
Credit portiolio VaR		32		26			42			26		22			33		3	30		28
Diversification benefit to IB trading and credit portFolio YaR		(14)	nd.	ни	œ		,	91		(7) 🗠		NM	(M	ř	M	Pú .	(:	13) 4		(7) 🛏
Total IB trading and credit portfolio VaR		81		70		1	99			83		53		1	02			71		82
Other YaR			-			7														
Mortgage Brook etten und Smylking vax		11	-	- 8			16			16	_	10	_		32-	-		11_		18
Chief Investment Office ("CIO") Valkin		129		85			187			60		55			64		1	86		55
Diversifications benefit to local other Vall			w		2)		WH.	料		141 60		111	EM.			-13		(6)		(13) ^(N)
Total other VaR ^{eo}		134		89			197			62		55			69		1	91		60
Diversification benefit to total IB and other VaR		(47)	60	NM	(80)		NM	500	-	571 W		ны	CH2	1	M	10)	- (61) "	,	(56) ^(e)
Total IB and other VaR ^{ed}	\$	170		\$ 111		\$	232		\$	88	\$	67		\$ 1	04		\$ 2	01	5	-86

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CIO Reporting and Limits

Risk reporting was not comprehensive

Several of key risk matrices relevant to this portfolio were not reported.

- Maturity-mismatch risk
- High Yield vs. Investment Grade risk
- Iffiquidity of older indices or tranches (i.e. on-the-run vs. off the run)
- Correlation risk between Super senior and Equity tranche positions and the default risk of individual names.

Limit Structure was weak

- •Before the loss announcement, the limit structure applicable to the synthetic credit books consisted of a relatively simple set of limits consisting of VAR, Stop Loss, Credit Spread BP01 and 10% Credit Spread widening.
- VAR limit, one of the three element of the limit structure, was not effective in controlling risks, as VAR model in use understated risks of Synthetic credit book significantly.
- •The limit structure in place was also deficient as it did not limit five key risks of the synthetic credit portfolio (listed above) were not included.

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Weak Limit Governance

Trading positions exceeded existing limits

- According to firm's risk policy, limit excesses should result in notification to market risk and limit
 approvers and a decision should be made whether positions should be cut or a temporary or
 permanent change to limit needs to be approved.
- On March 30th 2012, three out of four of the existing limits were breached. One of these limits -Credit Spread BPV was exceeded 937% for 59 trading days.
- The Mark-to-Market Stop-Loss limit was exceeded by 158% for 5 business days. However, this
 excess was not escalated as this limit was only 'advisory' (e.g. not a hard limit which would require
 hedging or cutting of the positions).
- The limit on 10% Credit Spread Widening (CSW) was in excess for over a month from March 22 to April 30th 2012, with an average limit utilization.
- Escalation procedures for limit excesses remain unclear. Some of these limits were increased temporarily and traders were not asked to cut their positions.

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New ∟imits were established on May 1st 2012

29 new limits specific to the Synthetic Credit Book have been implemented to create consistency with the JPMC's IB approach. Some of key limits implemented are:

- •Maximum net notional exposure limits for 4 major indices
- •95% VaR limit on Synthetic Credit Book in addition to the existing 99% limits
- ·Limits on curve steepening by 10%.
- •Limits on "higher-order" shocks U.S. and EU compression (Extent to which Synthetic Credit Book is exposed to differential performance of IG and HY positions within a given geography) and 10% correlation shift (Sensitivity of the tranches to a 10% shift of the correlation curve).

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Limit Utilization Under Old and New Limits

CIO Limits		Old Limit	Avg Utilization	New Temp Limit Increase
	1-16 TO 1-			
CIO Total -10q VAR	19 1-14 TO 1-	95	98	105
	26		113	
Int 10q- Credit VAR	1-13 to 1-23	95	99	110
	26-Jan		113	
CIO MTM Stress Losses	29-Mar	500	-859	1000
	4-5 to 4-19		-1536	
Global Credit 10% CSW	3-22 to	200	-278	200

- The firm stated that the protocols for limit excess approval were The firm stated that the protocols for limit excess approval were followed. Some of these limits were increased temporarily without asking traders to reduce their positions.
 However positions continued to exceed some of the new temporary limits.

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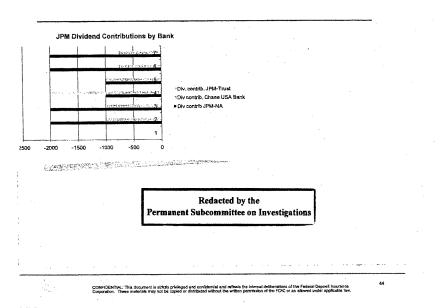
Firm Financial Profile

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Appendix

•Legal Structure
•Index Descriptions

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Discretionary Return Portfolio – JCF (Chief Invesument Office) Counterparty-facing coefficient derivatives JPMCB-LDN Credit derivatives JPMEL

Credit Synthetics Trades

Customer Counterparty face JPMCB London

Trades are internally booked with Whitefriars Inc.

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What a _ the CDX and ITRAXX Indices

- The CDX and iTRAXX are intended to represent returns on pools of Credit Default Swaps
 - The pools are generally:
 - The more liquid names in the Credit Default Swap market
 - Should have the same reference maturity (5yr, 7yr, 10yr being the most common and liquid)
 - The credits should be of even weights at inception (if 100 credits each would be 1% of pool)
 - Segregated by credit quality of reference entity (separate High Grade and High Yield Indices)
 - Also, separated by region US, Europe, Asia, Emerging Markets etc
 - The pools are generally issued in "Series" twice a year with fairly consistent reference credits
- The CDX are generally North American and Emerging Market Indices and have the characteristics provided below

	Index	# Entities (1)	Coupon (hps)	Recovery Rates (%)	Roll Bates	Maturity in years (2)	Underlying	Sub-indices
1 CDX	rcox	100	250	70	4/3 - 10/3	3.5	North American First Lien Senio: Secured Loans	
CDX	16	125	100	40	3/20 - 9/20	1, 2, 3, 5, 7, 10	Investment Grade	HVot - 30 names in IG with High Votability Sectors
	HY .	100	500	.30	3/27 ~ 9/27	5	High Yield	HY.8, HY.88.HB
	xo	35	340	40	3/20 - 9/20	3, 5, 7, 10	Crass-Over (78 or 68) (7)	
	EM	14 - can vary	500	26	3/20 ~ 9/20	6	Ernerging Markets (Sovereign)	
	EM Div	40 .	מפנ	25	3/20 ~ 9/20	5	Emerging Markets Diversified (Sovereign and Corporate)	

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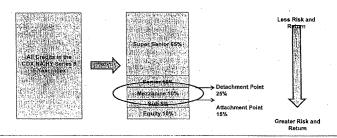
48

What 279 the CDX and ITRAXX Indices (Tranches)

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- Tranches of the CDX and ITRAXX allow leveraged and de-levered risk exposures to the respective indices
 - These tranches are generally:
 - Based on the more liquid indices
 - Are quoted with the name of the index for which it is based and two numbers representing the attachment and detachment points (these points will vary from pool to pool)
 - Risk and return increase with lower tranches and less subordination
 - Losses are always absorbed by the most subordinate tranche outstanding (ei. The first 10% of losses assuming 0% recovery, are taken by the equity tranche below)

Sample Transaction below would be CDX.NA.HY Series 9 5Y 15-25



Microsoft Outlook

From:

Reitz, Karl R. Sent: Thursday, May 24, 2012 5:35 PM

To: Haas, James S.

Fw: Information previously provided to FSA Subject:

Attachments: FSA Item 01 - Daily time series of position size and PnL from June 30, 2011 to May 11, 2012.xisx; FSA Item 02 - Daily time series of VaR for the portfolio from June 30, 2011 to May 11, 2012.xisx; FSA Item 03 - Periodic time series of Stress Loss size from June 30, 2011 to May 11, 2012.pdf; FSA Item 04 - Detail of the composition of the loss on Mar. 30, 2012.pdf; FSA Item 05 - Explanation and breakdown 10% CSW changes from Feb. 29, 2012 to Mar. 30, 2012.xisx; FSA Item 06 - Detail of Risk Parameters applied until late April 2012 and Re-assessment Risk factors.pdf

From: Yao, James Sent: Thursday, May 24, 2012 05:14 PM To: Reltz, Karl R. Subject: FW: Information previously provided to FSA

Please find attached the FSA information, as discussed on the call. Welcome to the SWAT team.

James

From: Arya, Om P.

Sent: Thursday, May 24, 2012 3:13 PM
To: Yao, James; Charurat, Bob; Capsavage, Brian A.
Cc: Byars, Jessica P.

Subject: FW: Information previously provided to FSA

· FYI.

From: Genova, Diane M. [mailto:genova_diane@ipmorgan.com]
Sent: Thursday, May 24, 2012 1:19 PM
To: Dianne_Dobbeck@ny.frb_org; Waterhouse (Regulator), Scott X; Needham, Catherine; Arya, Om P.
Subject: Information previously provided to FSA

Attached are the documents previously requested and provided to the FSA relating to the CIO Core Credit Book. The attached includes:

- Item 1: Daily time series of position size and P&L from June 30, 2011 to May 11, 2012
- Item 2: Daily time series of VaR for the portfolio from June 30, 2011 to May 11, 2012
- Item 3: Periodic time series of Stress Loss size from June 30, 2011 to May 11, 2012
- Item 4: Detail of the composition of the loss on March 30, 2012

8/27/2012

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- Item 5: Explanation and break down 10% CSW changes from February 29, 2012 to March 30, 2012
- Item 6: Detail of risk factors and stress parameters applied until late April 2012 and reassessment of additional risk factors

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8/27/2012

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Date	VaR 2011 Model	Var New Model
06/30/2011	31,338,508	_
07/01/2011	-	
07/04/2011	30,589,886	
07/05/2011	30,587,033	
07/06/2011	30,683,067	
07/07/2011	30,590,642	<u> </u>
07/08/2011	31,474,673	
07/11/2011	30,500,550	
07/12/2011	30,389,702	
07/13/2011	30,237,788	
07/14/2011	30,244,166	
07/15/2011	29,468,672	
07/18/2011	29,456,958	
07/19/2011	28,174,434	
07/20/2011	28,174,085	-
07/20/2011		-
	28,150,466	*
07/22/2011	27,877,989	-
	27,908,472	
07/26/2011	27,936,898	
07/27/2011	28,062,722	-
07/28/2011	27,398,853	
07/29/2011	27,225,892	
08/01/2011	26,514,898	-
08/02/2011	26,107,184	-
08/03/2011	26,058,601	-
08/04/2011	26,066,711	-
08/05/2011	26,105,509	-
08/08/2011	26,241,045	
08/09/2011	26,348,602	-
08/10/2011	26,010,313	_
08/11/2011	25,800,342	-
08/12/2011	25,815,935	-
08/15/2011	52,912,468	-
08/16/2011	53,534,478	-
08/17/2011	53,500,336	-
08/18/2011	55,516,312	-
08/19/2011	53,914,576	-
08/22/2011	53,546,037	· -
08/23/2011	51,325,303	
08/24/2011	50,431,939	-
08/25/2011	50,717,034	-
08/26/2011	50,699,310	
08/29/2011	51,468,566	-
08/30/2011	51,690,246	-
08/31/2011	52,404,742	-
09/01/2011	52,883,600	-
09/02/2011	-	-
09/05/2011	51,898,136	-
09/06/2011	51,942,463	-
09/07/2011	53,287,788	-
09/08/2011	54,321,543	_
09/09/2011	56,667,209	-

09/12/2011	56,602,695	_
09/13/2011	57,226,187	-
09/14/2011	57,583,227	
09/15/2011	58,553,854	-
09/16/2011	59,122,446	_
09/19/2011	58,517,726	-
09/20/2011	58,626,919	
09/21/2011	58,241,615	-
09/22/2011	58,262,644	-
09/23/2011	56,674,658	-
09/26/2011	57,879,882	-
09/27/2011	59,176,446	-
09/28/2011	57,918,884	•
09/29/2011	58,900,427	-
09/30/2011	57,219,556	-
10/03/2011	56,313,141	•
10/04/2011	55,912,197	-
10/05/2011	57,341,678	-
10/06/2011	58,435,360	-
10/07/2011	-	-
10/10/2011	60,687,443	-
10/11/2011	59,198,110	-
10/12/2011	62,577,472	-
10/13/2011	62,189,919	-
10/14/2011	63,692,856	-
10/17/2011	62,084,711	-
10/18/2011	64,540,672	-
10/19/2011	64,770,248	
10/20/2011	64,225,622	
10/21/2011	65,683,420	-
10/24/2011	65,850,811	-
10/25/2011	65,062,135	-
10/26/2011	64,575,559	-
10/27/2011	69,667,426	-
10/28/2011	73,944,380	-
10/31/2011	68,599,657	-
11/01/2011	66,858,203	-
11/02/2011	67,627,873	-
11/03/2011	69,636,645	-
11/04/2011	69,664,779	+
11/07/2011	69,401,729	-
11/08/2011	69,742,061	
11/09/2011	66,851,976	-
11/10/2011	-	-
11/11/2011	69,070,795	-
11/14/2011	68,260,963	-
11/15/2011	67,654,883	-
11/16/2011	67,979,297	_
11/17/2011	66,973,561	-
11/18/2011	66,980,368	_
11/21/2011	67,345,302	-
11/22/2011	69,550,770	
11/23/2011	00,000,770	
11/24/2011	68,149,159	-
11/25/2011	68,103,767	
1112312011	00,100,707	-

11/28/2011	67,488,768	-
11/29/2011	67,787,755	-
11/30/2011	67,147,763	-
12/01/2011	67,086,213	-
12/02/2011	67,051,785	-
12/05/2011	67,031,741	*
12/06/2011	66,755,445	-
12/07/2011	70,791,029	-
12/08/2011	71,753,872	-
12/09/2011	72,585,365	-
12/12/2011	73,436,048	-
12/13/2011	72,731,525	-
12/14/2011	72,851,735	-
12/15/2011	71,206,169	
12/16/2011	70,318,680	-
12/19/2011	70,322,118	-
12/20/2011	72,314,888	-
12/21/2011	71,825,878	-
12/22/2011	78,399,504	
12/23/2011	78,401,167	-
12/27/2011	78,322,119	-
12/28/2011	81,157,926	
12/29/2011	82,452,593	-
12/30/2011	82,270,219	
01/02/2012	-	-
01/03/2012	94,561,512	-
01/04/2012	94,892,531	
01/05/2012	96,096,744	-
01/06/2012	95,372,685	-
01/09/2012	92,641,094	-
01/10/2012	96,516,439	•
01/11/2012	98,154,081	-
01/12/2012	99,771,149	-
01/13/2012	-	-
01/16/2012	98,982,038	
01/17/2012	94,427,628	-
01/18/2012	97,190,972	-
01/19/2012	100,838,403	-
01/20/2012	100,658,767	-
01/23/2012	101,631,432	-
01/24/2012	103,555,533	-
01/25/2012	106,417,378	-
01/26/2012	109,430,803	-
01/27/2012	125,711,990	62,560,584
01/30/2012	126,163,028	65,001,864
01/31/2012	126,039,349	61,839,252
02/01/2012	123,353,147	56,617,752
02/02/2012	124,186,108	56,193,368
02/03/2012	124,593,715	52,589,752
02/06/2012	122,544,351	51,046,872
02/07/2012	125,061,518	54,269,624
02/08/2012	125,181,484	53,449,820
02/09/2012	125,147,041	48,979,864
02/10/2012	125,524,820	48,807,880
02/13/2012	125,401,441	50,444,436

02/14/2012	127,337,622	51,717,968
02/15/2012	126,906,301	51,706,496
02/16/2012	126,232,307	52,131,796
02/17/2012	-	-
02/20/2012	125,496,566	48,707,460
02/21/2012	127,442,929	47,859,568
02/22/2012	127,943,468	47,803,892
02/23/2012	128,143,932	48,056,652
02/24/2012	128,197,993	48,501,808
02/27/2012	128,759,881	49,962,864
02/28/2012	129,003,016	50,142,140
02/29/2012	129,887,198	50,452,808
03/01/2012	129,771,936	51,055,536
03/02/2012	131,768,548	49,957,936
03/05/2012	134,611,026	48,875,644
03/06/2012	136,670,905	50,655,420
03/07/2012	137,399,706	49,544,876
03/08/2012	137,242,492	49,724,496
03/09/2012	135,867,233	49,248,324
03/12/2012	136,974,905	49,666,256
03/13/2012	134,927,272	49,146,444
03/14/2012	137,023,545	47,913,840
03/15/2012	137,926,901	48,085,788
03/16/2012	137,940,158	49,500,428
03/19/2012	138,833,530	48,946,504
03/20/2012	138,979,719	50,095,804
03/21/2012	154,304,951	52,542,460
03/22/2012	176,598,844	61,100,484
03/23/2012	178,937,377	60,525,240
03/26/2012	174,305,324	59,148,584
03/27/2012	175,372,249	58,114,248
03/28/2012	180,246,289	57,785,224
03/29/2012	180,617,205	58,992,360
03/30/2012	168,370,300	58,879,980
	181,518,641	57,819,958
04/03/2012 04/04/2012	182,155,910	57,121,964
04/04/2012	184,322,182 184,323,061	60,482,140
04/05/2012		60,482,616
04/06/2012	184,006,468 184,927,225	60,216,896
04/10/2012	184,530,965	61,108,212 71,853,320
04/11/2012	185,441,910	71,035,320
04/11/2012	185,398,279	68,785,480
04/13/2012	186,239,810	72,598,024
04/16/2012	187,034,251	73,376,576
04/17/2012	186,630,091	70,357,192
04/18/2012	187,663,989	72,906,072
04/19/2012	188,580,913	75,215,453
04/20/2012	188,408,744	75,276,095
04/23/2012	190,412,469	82,173,581
04/24/2012	188,644,884	81,456,263
04/25/2012	187,644,321	84,176,313
04/26/2012	188.059.782	87.996.439
04/27/2012	192,810,686	85,933,435
04/30/2012	191,311,240	91,051,626
U-13012012	101,011,240	31,001,020

05/01/2012	186,683,923	88,887,431
05/02/2012	185,489,619	88,814,768
05/03/2012	182,696,518	89,511,582
05/04/2012	182,691,110	89,506,005
05/07/2012	177,151,245	91,468,679
05/08/2012	155,343,373	81,895,979
05/09/2012	146,738,714	-
05/10/2012	-	-
05/11/2012		-

CFI Monitoring Group

What Happened in JP Morgan's CIO? A Primer

(July 16, 2012)

1370

- Background
- What happened to JP Morgan in the Markets?
- What happened to JP Morgan's CIO Trading Portfolio?
 - Directional Risk
 - Investment Grade vs. High Yield Risk
 - "On the Run" vs. "Off the Run" Risk
- What Happened to JP Morgan's CIO Controls?

- January - April 6th 2012

- JP Morgan commences selling protection (going long) the CDX investment grade Indices going from Net
 protection buyers of \$8 billion to Net protection sellers of \$60 billion Net Notional by the end of March (The
 largest of these positions is the CDX IG Series 9, which had a Net protection sell of nearly \$75Bin.
- JP Morgan also increases its position in the European ITRAXX Investment Grade Indices from Net protection sellers of \$76 billion to Net protection sellers of \$115 billion by the end of March (The largest of these positions is in the ITRAXX Series 9, which had a Net Protection Sale of \$90 Billion by the end of March)
- Both Indices are considered "off-the-run" and liquidity in these markets can be limited
- JP Morgan had sold enough protection in these indices to create a market dislocation
- As hedge funds saw the dislocation they attempted to purchase protection in anticipation of a market correction, but the size of JPM's trades dislocated markets further, creating paper losses for the hedge funds
- It is suspected that these Hedge Funds begin to circulate news of the large JPM positions

- April 6th 2012

 Bloomberg reports of the "London Whale", a JP Morgan trader amassing a large positions in the CDX IG Series 9 and the European ITRAXX Series 9 Indices

- April 6th - May 10th 2012

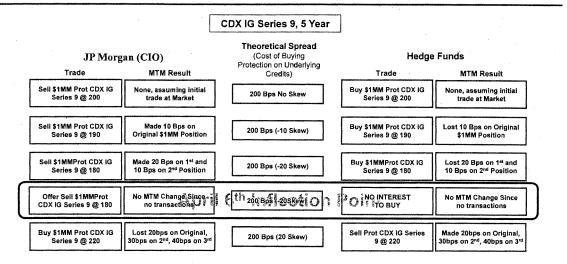
- JP Morgan in separate statements indicates
 - "The CIO unit is focused on managing the long-term structural assets and liabilities of the firm and is not focused on short-term profits."
 - "Our CIO activities hedge structural risks and invest to bring the company's asset and liabilities into better alignment."
- Markets reacts to reports and begins to trade against JP Morgan

May 10th 2012

Jamie Dimon makes public announcement of potential losses and potential errors made by JPM and its CIO group

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What Happened to JP Morgan in the Markets? (A Simple Example) CFI Monitoring Group



The Simple Example Synopsis

- JP Morgan begins selling protection on the CDX IG Series 9 at or near theoretical value of the underlying credits and continues to sell at lower spreads, which begins to drive the index below the theoretical value, creating a Negative Skew
- Hedge Funds see an arbitrage opportunity and begin buying protection, waiting for spreads to return to theoretical
- JP Morgan continues selling protection, driving the spread down further and creating MTM losses for hedge funds

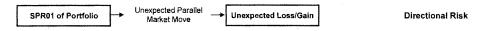
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- Hedge Funds circulate rumors of large positions held by JPM, and begin to realize that JPM needs to exit these positions
- Hedge Funds get the last laugh, as the spreads finally do converge to theoretical and JPM is finding it very expensive to Buy back their protection

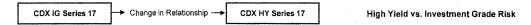
- The CIO had nearly 100 individual Index positions of varying exposures, vintages, and tenors
- They severely underestimated the ability for these indexes to diverge from historical or assumed relationships and move independently
- This problem was exacerbated by the fact that they became such a large participant in some specific indexes (CDX IG Series 9 and the ITRAXX Main Series 9) that it caused greater market dislocation

What were the Major Risks to JPM? (Recall our earlier "Basis Risk" discussion)

- "Directional Risk" is the Risk that the spreads move against you, uniformly across indices and in parallel



- "Investment Grade vs. High Yield" Is the Risk that Investment Grade Indices (ie. CDX IG and the ITRAXX Main) dislocate from assumed relationships to the High Yield Indices (ie. CDX HY and the ITRAXX XO)



- "On the Run" vs "Off the Run" is the Risk that "Off the Run" Indexes perform in an unexpected manor in relation to "On the Run" Indexes



How big are these Risks and how do they appear? (A Hypothetical Portfolio Loosely based on JPM positions as of May 5th)

	Net Notional	SPR01	Assumed Beta*	Beta Adjusted SPR01
US High Yield	(5,000,000,000)	8,000,000	5.0	40,000,000
US Investment Grade				
CDX IG Series 9 "Off the Run"	75,000,000,000	(40,000,000)		
CDX IG Series 14 "Off the Run"	(5,000,000,000)	2,000,000		
CDX IG Series 15 "Off the Run"	(20,000,000,000)	7,000,000		
CDX IG Series 16 "Off the Run"	(20,000,000,000)	7,000,000		
CDX IG Series 17 "On the Run"	10,000,000,000	(5,000,000)		
CDX IG Series 18 "On the Run"	20,000,000,000	(9,000,000)		
Total US investment Grade	60,000,000,000	(38,000,000)	1.0	(38,000,000)
European High Yield	(10,000,000,000)	3,000,000	5.0	15,000,000
European Investment Grade	115,000,000,000	(25,000,000)	1.0	(25,000,000)

(52,000,000)

Assumed to be the Beta1 Baseline

How big are these Risks and how do they appear? (Some Basic Definitions)

160,000,000,000

- SPR01 Is the profit or loss from a 1 basis point widening of the underlying spread
- *Beta is the assumed relationship between the performance of two different Indexes, Beta's are based on the "On the Run" CDX IG Series 18 and CDX IG Series 17
- Beta Adjustment is simply the SPR01 for a given Index multiplied by it Beta

(8,000,000)

Directional Risk - What is it? How Does it Work?

	Net Notional	SPR01	Assumed Beta*	Beta Adjusted SPR01	Basis Point Spread Move	Projected Profit &
US High Yield	(5,000,000,000)	8,000,000	5.0	40,000,000	25.0	200,000,000
US Investment Grade						
CDX IG Series 9 "Off the Run"	75,000,000,000	(40,000,000)	1.0	(40,000,000)	5.0	(200,000,000)
CDX IG Series 14 "Off the Run"	(5,000,000,000)	2,000,000	1.0	2,000,000	5.0	10,000,000
CDX IG Series 15 "Off the Run"	(20,000,000,000)	7,000,000	1.0	7,000,000	5.0	35,000,000
CDX IG Series 16 "Off the Run"	(20,000,000,000)	7,000,000	1.0	7,000,000	5.0	35,000,000
CDX IG Series 17 "On the Run"	10,000,000,000	(5,000,000)	1.0	(5,000,000)	5.0	(25,000,000)
CDX IG Series 18 "On the Run"	20,000,000,000	(9,000,000)	1.0	(9,000,000)	5.0	(45,000,000)
Total US Investment Grade	60,000,000,000	(38,000,000)	1.0	(38,000,000)	5.0	(190,000,000)
European High Yield	(10,000,000,000)	3,000,000	5.0	15,000,000	25.0	75,000,000
European Investment Grade	115,000,000,000	(25,000,000)	1.0	(25,000,000)	5.0	{125,000,000}
Total	160,000,000,000	(52,000,000)		(8,000,000)	,	(40,000,000)

Assumed to be the Beta1 Baseline

How can "Directional Risk" drive JP Morgan's Losses

- As indicated in the previous slide the "Directional" P&L results from a uniform widening of spreads, under predefined Beta assumptions.
- In the example above the Investment Grade Indexes widen by 5 basis points and the High Yield Indexes move by 25 basis points, maintaining the original 5:1 Beta assumption.
- We then multiply the SPR01 by the basis point move, arriving at the Profit or Loss in each position
- Summing those individual positions we come to a (\$40,000,000) loss, purely from the 5 basis point "Directional" move

Investment Grade vs. High Yield Risk - What is it? How Does it Work?

•	Net Notional	SPR01	Assumed Beta*	Beta Adjusted SPR01	Basis Point Spread Move	Projected Profit & Loss
US High Yield	(5,000,000,000)	8,000,000	5.0	40,000,000	15.0	120,000,000
US Investment Grade						T
CDX IG Series 9 "Off the Run"	75,000,000,000	(40,000,000)	1.0	(40,000,000)	5.0	(200,000,000)
CDX IG Series 14 "Off the Run"	(5,000,000,000)	2,000,000	1.0	2,000,000	5.0	10,000,000
CDX IG Series 15 "Off the Run"	(20,000,000,000)	7,000,000	1.0	7,000,000	5,0	35,000,000
CDX IG Series 16 "Off the Run"	(20,000,000,000)	7,000,000	1.0	7,000,000	5.0	35,000,000
CDX IG Series 17 "On the Run"	10,000,000,000	(5,000,000)	1.0	(5,000,000)	5.0	(25,000,000)
CDX IG Series 18 "On the Run"	20,000,000,000	(9,000,000)	1.0	(9,000,000)	5.0	(45,000,000)
Total US Investment Grade	60,000,000,000	(38,000,000)	1.0	(38,000,000)	5.0	(190,000,000)
European High Yield	(10,000,000,000)	3,000,000	5.0	15,000,000	15.0	45,000,000
European Investment Grade	115,000,000,000	(25,000,000)	1.0	(25,000,000)	5.0	(125,000,000)
Total	160,000,000,000	(52,000,000)		(8,000,000)		(150,000,000)

Assumed to be the Beta1 Baseline

How can "Investment Grade vs. High Yield Risk" drive JP Morgan's Losses

- As indicated in the previous slide the "Investment Grade vs. High Yield" P&L results from spread movements of Investment Grade positions that are not in line the original projected relationships to High Yield positions (Beta's).
- In the example above the Investment Grade Indexes widen by 5 basis points and the High Yield Indexes only move by 15 basis points (implying a Beta of 3:1 vs. the assumed Beta of 5:1).
- We then multiply the SPR01 by the basis point move, arriving at the Profit or Loss in each position
- Summing those individual positions we come to a total loss from the move in spreads of (\$150,000,000).
- Recall from the previous slide you can categorize (\$40,000,000) of the loss from "Directional" moves and the remaining (\$110,000,000) as a "Investment Grade vs. High Yield" loss.

"On the Run" vs. "Off the Run" Risk - What is it? How Does it Work?

	Net Notional	SPR01	Assumed Beta*	Beta Adjusted SPR01	Basis Point Spread Move	Projected Profit &
US High Yield	(5,000,000,000)	8,000,000	5.0	40,000,000	25.0	200,000,000
US Investment Grade						
CDX IG Series 9 "Off the Run"	75,000,000,000	(40,000,000)	1.0	(40,000,000)	10.0	(400,000,000)
CDX IG Series 14 "Off the Run"	(5,000,000,000)	2,000,000	1.0	2,000,000	5.0	10,000,000
CDX IG Series 15 "Off the Run"	(20,000,000,000)	7,000,000	1.0	7,000,000	5.0	35,000,000
CDX IG Series 16 "Off the Run"	(20,000,000,000)	7,000,000	1.0	7,000,000	5.0	35,000,000
CDX IG Series 17 "On the Run"	10,000,000,000	(5,000,000)	1.0	(5,000,000)	5.0	(25,000,000)
CDX IG Series 18 "On the Run"	20,000,000,000	(9,000,000)	1.0	(9,000,000)	5.0	(45,000,000)
Total US Investment Grade	60,000,000,000	{38,000,000}	1.0	(38,000,000)	5.0	(390,000,000)
European High Yield	(10,000,000,000)	3,000,000	5.0	15,000,000	25.0	75,000,000
European Investment Grade	115,000,000,000	(25,000,000)	1.0	(25,000,000)	5.0	(125,000,000)
Total .	160,000,000,000	(52,000,000)		(8,000,000)		(240,000,000)

Assumed to be the Beta1 Baseline

How can "On the Run" vs. "Off the Run" Risk drive JP Morgan's Losses

- As indicated on the initial slide the "On the Run" vs. "Off the Run" P&L results from spread movements of "On the Run" positions that are not in line with or the original projected relationships to "Off the Run" positions. (It would appear that JPM assumed that the relationship was 1:1 or movements would move in lockstep)
- In the example above most of the Investment Grade Indexes widen by 5 bps and the High Yield Indexes move 25 bps (the correct 5:1 Beta assumption). However the CDX IG Series 9 "Off the Run" moves by 10 bps, which is not in line with the "On the Run" Series 18.
- We then multiply the SPR01 by the basis point move, arriving at the Profit or Loss in each position
- Summing those individual positions we come to a total loss from the move in spreads of (\$240,000,000).
- Recall from the previous slide you can categorize (\$40,000,000) of the loss from "Directional" moves and the remaining (\$200,000,000) as a "On the Run" vs. "Off the Run" loss.

"Basis Risk" Is it that Easy?

- In the previous slides we have demonstrated a very simple example and isolated the Basis risks individually
- With nearly 100 positions, the relationships and potential for market deviation increases significantly
 - There are 6 primary Indexes traded
 - On average each Index has approximately 7-8 different Series
 - There are up to 4 different Tenors (maturities) traded
 - Some of the Index/Series/Tenors also have 4-5 tranche positions
- One can easily see how there can be a fairly complex matrix of Beta's, which would need to be dynamically hedged and adjusted

	COX (Q S9 5 Yr	CDX 10 59 7 Yr	CDX (G 59 10 Yr	CDX 10 510 5 Yr	COXIG SD7Yr	CDX 1G S10 10 Yr	CDX IG S115 Yr	CDX IS S117 Yr		****	CDX HY \$17 7 Yr	178		ITRAXX SI75Yr
CDX IG	10	0.9	0.8	0.8	0.7	0.9	0.8	0.6			0.2			0.8
CDX 10 59 7 Yr	11	10	0.1	0.2	0.9	0.6	0.7	0.8	0.3	0.3	10	0.3	10	0.7
CDX IO	13	18.7	10	0.2	0.6	0.4	0.8	0.7	0.3	0.7	0.3	0.9	0.5	0.9
CDX IO	13	6.6	5.6	10	0.9	0.6	0.7	02	0.1	0.2	0.6	0.1	0.5	10
CDX IO	14	11	18	15	10	0.2	0.6	0.8	0.2	0.6	9.4	9,1	0.9	0,8
CDX IG	11	16	2.5	16	48	10	0.5	0.6	0.7	0.2	0.2	0.4	0.2	0.6
COXIG	13	14	12	15	17	19	- 10	10	0.0	0.1	0.1	0.2	10	0.7
CDX 19	17	13	14	5.6	12	18	10	10	0.3	0.4	04	0.6	0.9	D.1
						15		36	10	0.5	0.4	0.7	0.9	0.9
			<u> </u>		 				19	10	0.1	0.9	0.4	0.5
COX NY			<u> </u>						23		10	0.8	10	0.3
SI77 Yr	5.0	10	2.9	17	2.4	4.5	10.1	2,7	2.3	6,9	1			-
170-	 	-			-	 					16	10	0.4	0.2
ITRAXX							 		 			2.3	10	0,6
\$175 Yr	13	14	111	10	13	18	15	8.4	8.4	19	3,3	0.2	1.7	10

- To mange the process Indexes, Series, Tenors, or Tranches are sometimes grouped and assumed to have similar performance, significantly simplifying the correlation matrix.
- However, this grouping can mask relationships as was the case in the CDX IG Series 9 "Off the Run" vs the CDX IG Series 18 "On the Run"

- The previous slides provided an indication of the potential P&L effects from spread changes in specific positions
- Depending on the liquidity of the specific indexes Bid/Offers can range from 5 or less bps under normal liquid market dynamics for "On the Run" Investment Grade Indices to easily 20-30+ bps on "Off the Run" High Yield or less liquid tranche positions
- It appears that, although arguably "GAAP" approved, traders were marking their positions on the favorable side, and not at Mid or on a consistent basis.
 - Marking spreads on the tight (low) side for Net protection sold positions and,
 - Marking spreads on the wide (high) side for Net protection bought positions

Poor Implementation and Governance of new trading models

- Poor and inconsistent new model testing and governance, as CIO itself had primary control of the process
- A new model was put in place at the beginning of the year and it was discovered to contain errors and inconsistencies
 that resulted in a period of poor risk controls, during this period traders continued increasing positions
- After discovery of the issues the old model was finally reinstated, but by then the positions were already on the books

Poor Risk Controls and Structure

- Failure to identify and set limits to increasing risks as market dynamics shifted
- An ability for CIO management to override existing Risk limit breaches
- CIO had an insular structure with limited visibility and control from other groups within the firm
- CIO's trading successes bred an environment where risk mangers were not motivated to bring issues to the attention of senior management
- Potential incentive alignment issues, as CIO Senior Management (including traders) had significant input in CIO Risk Manager bonus compensation. (Which can easily be multiples of an employees base salary)

Microsoft Outlook

From: Charurat, Bob

Tuesday, June 05, 2012 11:09 AM Sent:

To: Reitz, Karl R.; Bennett, Rosalind

Subject: FW: JPM Position Report, as provide to FSA

Attachments: JPM provided positions to FSA June 30 2011 to May 11 2012.xlsx

Bob Charurat Sr. Large Bank Specialist RMS Mid-Tier Bank Branch Blackberry:

From: Yao, James
Sent: Wednesday, May 30, 2012 11:03 AM
To: Needham, Catherine; Arya, Om P.; Capsavage, Brian A.; Charurat, Bob
Ct: Ledbetter, Stephen L.
Subject: JPM Position Report, as provide to FSA

As requested, please find attached a summary position report I prepared from the JPM information provided to FSA. It shows the month end positions of the Indexes going back to June of 2011. It appears that JPM did not significantly increase their positions until the beginning of this year, specifically in the US and European High Grade Indexes. That being said they did have a Net Long of 50-75Bln throughout the end of last year.

Please keep in mind that these are net notionals alone and may not represent risk profiles directly. Again, this does not take into account things like maturity and leverage from tranches, that are represented in the CR01's or SPR01's. There is also a simple graph of the positions on the following tab for your reference.

Please let me know if you have any additional questions.

9/6/2012 PRIVILEGED AND CONFIDENTIAL

Microsoft Outlook

From: Arya, Om P.

Sent: Wednesday, June 06, 2012 8:36 AM

To:

Yao, James; Charurat, Bob; Bennett, Rosalind; Reitz, Karl R.; Burton, Steven

Cc: Byars, Jessica P.

Subject: FW: Synthetic Credit Report - June 6, 2012 Attachments: Synthetic Credit Risk Pack 6-6-12.pdf

From: Gillis, David KF [mailto:david.kf.gillis@jpmchase.com]

Sent: Wednesday, June 06, 2012 7:48 AM
To: Dianne.Dobbeck@ny.frb.org; Needham, Catherine; Arya, Om P.; "Scott Waterhouse"; Waterhouse

(Regulator), Scott X

Cc: Genova, Diane M.; Hill, Erin; Gurselman, Gregg B

Subject: Synthetic Credit Report - June 6, 2012

Confidential

As requested, attached please find a detailed daily P&L and Risk report related to the Synthetic Credit Book dated June 6, 2012 for COB June 5, 2012. These materials are in draft form and are subject to continuing internal review.

Please contact me at 212-648-0362 with any questions.

David Gillis

David K.F. Gillis

Managing Director & Associate General Counsel

270 Park Avenue, 38th Fl., New York, New York 10017

<u>david.kf.gitlis@ipmorgan.com</u> **Tel:** 212.648.0362 **Cell:** 917.359.8854 **Fax:** 917.463.0170

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From: Drew, Ina <Ina.Drew@jpmorgan.com> Sent: Thu, 05 Apr 2012 23:02:52 GMT

Braunstein, Douglas < Douglas.Braunstein@jpmorgan.com> To:

Subject: Re: Bloomberg and upcoming WSJ stories

I will be on cell, I called you around 5 30

---- Original Message -----From: Braunstein, Douglas

Sent: Thursday, April 05, 2012 06:58 PM To: Drew, Ina

Subject: Fw: Bloomberg and upcoming WSJ stories

If you are around tmrw would like to catch up around what we say next week on this topic

--- Original Message -----From: Evangelisti, Joseph

Sent: Thursday, April 05, 2012 06:52 PM To: Executive Committee

Cc: Press Team 2012

Subject: Bloomberg and upcoming WSJ stories

Below is the first version of a Bloomberg report related to hedging positions in our CIO group. The Wall Street Journal is expected to run a front-page story on this tomorrow as well. We've corrected some information about our CIO function and provided the following comments. Please refer any follow up calls to me. Thanks, Joe

- The Chief Investment Office is responsible for managing and hedging the firm's foreign exchange, interest rate and other structural risks.
- . CIO is focused on managing the long-term structural assets and liabilities of the firm and is not focused on short-term profits.
- · Our CIO activities hedge structural risks and invest to bring the company's asset and liabilities into better
- · Our CIO results are disclosed in our quarterly earnings reports and are fully transparent to our regulators.

BLOOMBERG DPMorgan Trader Iksil's Heft Is Said to Distort Credit Indexes 2012-04-05 22:45:58.172 GMT

By Stephanie Ruhle, Bradley Keoun and Mary Childs
April 6 (Bloomberg) -- A JPMorgan Chase & Co. trader of derivatives linked to the financial health of
corporations has amassed positions so large that he's driving price moves in the multi-trillion-dollar market,
according to traders outside the firm.
The trader is London-based Brurio Iksil, according to five counterparts at hedge funds and rival banks who

requested anonymity because they're not authorized to discuss the transactions. He specializes in credit-derivative indexes, an off-exchange market that during the past decade has overtaken corporate bonds to become the biggest forum for investors betting on the likelihood of company defaults.

Investors complain that Iksil's trades may be distorting prices, affecting bondholders who use the instruments to hedge hundreds of billions of dollars of fixed-income holdings.

Analysts and economists also use the indexes to help gauge interest rates that companies must pay for

Analysts and exhibiting also use the littleses to help gauge interest rates that companies mass pay not new credit.

Though Iksii reveals little to other traders about his own positions, they say they've taken the opposite side of transactions and that his orders are the biggest they've encountered. Two hedge-fund traders said they have seen unusually large price swings when they were told by dealers that Iksii was in the market. Joe Evangelisti, a spokesman for New York-based JPMorgan, declined to comment on Iksii's specific transactions. Iksii didn't respond to phone messages and e-mails seeking comment.

Speculation Intensifying

Speculation about his positions intensified yesterday after the newest and most-active index of investment-

Speculation about his positions intensified yesterday after the newest and most-active index of investment-grade credit, the Markit CDX North America Investment Grade Index of credit- default swaps Series 18 dimbed 4.4 basis points to a mid-price of 97 basis points at 5:13 p.m. in New York, the biggest increase in almost four months, according to Markit Group Ltd.

The credit indexes are linked to the default risk on a basket of 100 or more companies. In some cases, Iksil is believed to have "broken" the index — Wall Street lingo for the market dysfunction that occurs when a price gap opens up between the index and its underlying constituents, the people said. The persistence of price dislocations has frustrated some hedge funds that were betting on the gap to close over time, the people said.

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-- Editors: David Scheer, Peter Eichenbaum

To contact the reporter on this story: Bradley Keoun in New York at +1-212-617-2310 or bkeoun@bloomberg.net; Stephanie Ruhle in New York at +1-212-617-0784 or sruhle2@bloomberg.net; Mary Childs in New York at +1-212-617-6772 or mchilds5@bloomberg.net.

To contact the editor responsible for this story: David Scheer at +1-212-617-2358 or dscheer@bloomberg.net; Shannon D. Harrington in New York at +1-212-617-8558 or sharrington6@bloomberg.net.

From: Wilmot, John < JOHN.WILMOT@jpmorgan.com>

Sent: Fri, 06 Apr 2012 19:08:40 GMT

To: Dimon, Jamie Sjamie.dimon@jpmchase.com>; Braunstein, Douglas

<Douglas.Braunstein@jpmorgan.com>
Drew, Ina <Ina.Drew@jpmorgan.com>

CC: Drew, Ina <Ina.Drew@jpmorga. Subject: synthetic credit tranche reserve

Jamie and Doug,

The CIO credit book was fully marked at quarter end based on our established pricing and valuation approach (resulting in \$(558)mm in synthetic book MTM offset by \$183mm in positive credit securities revaluation). Given the recent deterioration in market liquidity in series 9 synthetic credit tranche positions, we are proposing a liquidity reserve of \$155mm for 1Q12 for these positions. This reserve was estimated utilizing our established VCG liquidity reserve framework. Let me know if you have any questions.

Iohn

John C. Wilmot | Chief Investment Office | ☐ john.wilmot@jpmorgan.com | @ Work: (212) 834-5452 | @ Ceil: (917) 664-1690

From: Wilmot, John < JOHN.WILMOT@jpmorgan.com>

Sent: Mon, 09 Apr 2012 21:52:47 GMT

Braunstein, Douglas <Douglas Braunstein@jpmorgan.com>; Dimon, Jamie <jamie.dimon@jpmchase.com>

To:

Subject: FW: Series 9 tranche liquidity reserves

Below is detail relative to the liquidity reserve taken on the Series 9 credit tranche positions. I will forward the related notional exposures tomorrow morning as they are not included below and London is closed. John

John C. Wilmot | Chief Investment Office | 🖸 John.wilmot@jpmorgan.com | 🖼 Work: (212) 834-5452 | 🕿 Cell; (917) 664-1690

6 CREDIT TRANCHE POSITIONS IMPACTED

3 Maturities of ITRAXX Series 9 (5yr, 7yr, 10yr Maturity)

3 Maturities of CDX Investment Grade (5yr, 7yr, 10yr Maturity)

CREDIT TRANCHES LIQUIDITY RESERVE DETAILS Total Increase of approximately +\$155Million

RATIONALE FOR ADDITIONAL TRANCHE LIQUIDITY RESERVES

As part of CIO's recurring liquidity review, Credit Index markets (post Series 8) are deemed liquid and are excluded from CIO's Liquidity Reserve computation. Liquidity reserves are taken for the Series 6, 7, and 8 Credit Index and Tranches.

Credit Tranche markets have always been considered less liquid (compared to Index markets) and Liquidity reserves are therefore computed and taken. However, in the past, the Liquidity Reserve associated with these 6 Series-9 Tranche positions was not taken because their markets were deemed sufficiently liquid. The additional +\$155Million Liquidity Reserve was taken due to the inclusion of these 6 Series-9 tranche positions; this reflects the market's reduced liquidity.

CALCULATON METHODOLOGY (DEFINED BELOW)

Liquidity Reserve = [CS01] X Square Root [Holding Period] X [Spread Volatility]

[A] CSO1 (Credit Spread sensitivity to a 1bps change in market spreads relative to Position Size)

[B] Holding Period (JPM IB suggested maximum 120days used by CIO)

[C] Spread Volatility (provided by JPM IB VCG; varies by position in capital structure; highest volatility for Equity tranches; lowest volatility for Super Senior tranches)



CONTROLLERS CORPORATE ACCOUNTING POLICIES

CATEGORY: SUBJECT: 1-0100 General Accounting Policies

Fair Value Measurement

POLICY NO: EFFECTIVE DATE: 1-0105

ISSUE DATE:

January 1, 2012 May 10, 2012

Accounting Policies Contacts: Alistair Webster (primary)

Matt Gordon (secondary)

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APPENDICES

I. INTRODUCTION

Accounting Standards Codification Topic 820, Fair Value Measurement ("Topic 820"), provides a single definition and framework for fair value measurements. In May 2011, The FASB issued Accounting Standards Update No. 2011-4, Amendments to Achieve Common Fair Value Measurement and Disclosure Requirements in U.S. GAAP and IFRSs, to make amendments to clarify or change previous guidance and to converge US GAAP and IFRS. In summary, Topic 820:

- Defines fair value;
- Establishes a three-level hierarchy for fair value measurements based upon the transparency of inputs to the valuation of an asset or liability as of the measurement date;
- Provides an exception to allow for portfolio based measurements for items managed on a net basis and measured at fair value on the balance sheet.
- Prohibits valuation adjustments when fair value is measured using a quoted price of an
 identical asset or liability, and prohibits the application of position size-based
 premiums and discounts to level 2 and level 3 instruments except where the asset or
 liability being valued is considered single unit of account, and a sized-based adjustment
 would be applied by market participants.
- · Requires consideration of the Firm's own creditworthiness when valuing liabilities; and
- · Expands disclosures about instruments measured at fair value.

II. <u>DEFINITION OF TERMS</u>

Fair value

Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date.

Represents an exit price. The transaction price, or entry price, may in certain cases
represent the exit price but the entry price should not be presumed to represent the fair
value of an asset or liability at initial recognition.

Highest and best use (non-financial assets)

The highest and best use of a non financial asset is determined from the perspective of market participants, even if the entity intends a different use. However, a reporting entity's current use of a nonfinancial asset is presumed to be its highest and best use unless market or other factors suggest a different use by market participants would maximize the value of the asset (e.g. where the maximum value of the instrument is derived principally through its use in combination with other instruments.)

Input

Observable—Observable inputs are inputs that reflect the assumptions that market participants use in pricing the asset or liability developed based on market data obtained from sources independent of the Firm. Characteristics of observable inputs include readily available, not proprietary, regularly distributed, and transparent.

Unobservable—Unobservable inputs are inputs that reflect the Firm's own assumptions about the assumptions that market participants would use in pricing the asset or liability developed based on the best information available in the circumstances.

Market participants

Buyers and sellers in the principal (or most advantageous) market. A market participant must be independent (not a related party to JPMC), knowledgeable, able to transact (have the legal and financial capacity to do so), and willing to transact (not forced or otherwise compelled to do so).

Nonperformance risk

Nonperformance risk refers to the risk that the obligation will not be fulfilled and affects the value at which a liability is transferred. Nonperformance risk includes the reporting entity's credit risk as well as settlement risk and may include, in the case of commodities, the risk related to physically extracting and transferring the asset to the delivery point.

Unit of account

The unit of account determines what is being measured by reference to the level at which the asset or liability is aggregated or disaggregated for purposes of applying existing accounting pronouncements.

III. SCOPE

Instruments/transactions for which a fair value or fair-value-based measurement may apply but are not subject to this policy include:

- Share based payments accounted for in accordance with Topic 718 and Subtopic 505-50. While certain measurements in that guidance are fair-value-based measurements, they may exclude the effects of certain inputs such as conditions, restrictions and other features that would be considered in a fair value measurement under Topic 820.
- Instruments, such as physical commodities, valued in accordance with Accounting Research Bulletin No. 43, Inventory Pricing.
- Accounting pronouncements that permit measurements that are based on, or use, vendor-specific objective evidence of fair value.
- Situations where U.S. GAAP provides a practicability exception to the application of fair value, for example:
 - Guarantees accounted for in accordance with Topic 460 which allows for the use
 of transaction price (an entry price) to measure fair value at initial recognition.
 See also Corporate Accounting Policy #1-0108, "Guarantees."
 - Certain disclosures provided in accordance with Subtopic 825-10, Disclosure
 about Fair Value of Financial Instruments, where it is not practical to measure
 fair value. Corporate Accounting Policies must be consulted where this is
 determined to be the case.
 - Certain Asset Retirement Obligations accounted for in accordance with Subtopic 410-20 and Sections 440-10-50 and 440-10-55, Accounting for Asset Retirement Obligations, where fair value is not readily determinable.
 - Certain Contributions accounted for in accordance with FASB Statement No.116, Accounting for Contributions Received and Contributions Made, where contributions cannot be measured with sufficient reliability.

Note: Topic 805, Business Combinations, requires the use of fair value as the measurement objective, at inception, for certain assets acquired and liabilities assumed in a business combination (for example, intangible assets) and these assets and liabilities are therefore subject to this policy. In certain circumstances, where the valuation techniques applied to the asset or liability may be similar to a fair value measurement but fair value is not explicitly the required measurement objective, this policy does not apply (for example, receivables, notes payable, plant and equipment to be used).

IV. ACCOUNTING POLICY

This policy describes JPMorgan Chase's (JPMC) policy in consideration of Topic 820. The focus of this policy is how to arrive at a fair value measurement. This policy does not incorporate guidance regarding which instruments are required to be measured at fair value or which instruments the Firm has made an optional election to measure at fair value.

Fair value measurements

Fair value is the price to sell an asset or transfer a liability in the principal (or most advantageous) market for the asset or liability. The sale or transfer assumes an orderly transaction between market participants. The transaction to sell the asset or transfer the liability is a hypothetical transaction at the measurement date, considered from the perspective of a market participant that holds the asset or owes the liability. Therefore, the objective of a fair value measurement is to determine the price that would be received to sell the asset or paid to transfer the liability at the measurement date (an exit price). Because that exit price objective applies for all assets and liabilities measured at fair value, any fair value measurement requires identification of the following:

- a. The particular asset or liability that is the subject of the measurement
- b. The valuation premise appropriate for the measurement
- c. The principal (or most advantageous) market for the asset or liability
- d. The valuation technique(s) appropriate for the measurement, considering the availability of data with which to develop inputs that represent the assumptions that market participants would use in pricing the asset or liability.

A. Valuation Premise

The valuation premise considers that an asset would be used either (a) in combination with other assets or with other assets and liabilities (for example, a reporting unit or business) or (b) on a standalone basis (for example, a financial instrument). Whether the asset or liability is a standalone asset or liability or a group for recognition or disclosure purposes depends on its "unit of account". The unit of account is generally determined in accordance with the Topic that requires or permits the fair value measurement.

Financial instruments are generally valued using a standalone valuation premise. However, Topic 820 provides an exception to allow for portfolio based measurements for items managed on a net basis and measured at fair value on the balance sheet. A reporting entity that holds a group of financial assets and financial liabilities is exposed to market risks (that is, interest rate risk, currency risk or other price risk) and to the credit risk of each of the counterparties. If the reporting entity manages that group of financial assets and financial liabilities on the basis of its net exposure to either market risk or credit risk, the reporting entity is permitted to apply an exception to Topic 820 for measuring fair value. The exception permits a reporting entity to measure the fair value of a group of financial assets and financial liabilities on the basis of the price that would be received to sell a net long position (an asset) for a particular risk exposure or to transfer a net short position (a liability) for a particular risk exposure in an orderly transaction between market participants at the measurement date under current market

conditions. Accordingly, the "portfolio" is valued consistently with how market participants would price the net risk exposure at the measurement date.

The exception may be applied under the following conditions:

- The group of assets and liabilities is managed based on the net exposure to a
 particular market risk (or risks) or to the credit risk of a particular counterparty
 in accordance with documented risk management or investment strategy
- · Information is reported on that basis to management
- Assets or liabilities are required or have been elected to be carried at fair value on the balance sheet at the end of each reporting period.

JPMorgan Chase has elected to apply the portfolio exception to its market making derivative portfolios and related cash instruments within the Investment Bank.

B. Relevant Market

A fair value measurement should reflect an exit price in the *principal market* for the asset or liability. The principal market is the market (a) with the greatest volume and level of activity for the asset and liability and (b) to which the Firm has access.

- If there is no principal market, the exit price should reflect the amount that would
 be received or paid in the most advantageous market (the market in which the Firm
 would maximize the amount that would be received for an asset or minimize the
 amount that would be paid to transfer a liability).
- If there are multiple markets for the same asset or liability, the most likely exit
 market should be considered to determine the exit price and the other exit markets
 do not need to be considered.
- For assets and liabilities where there is little or no trading, or a one-way market, the
 Firm must make a determination of what a willing counterparty would offer to
 purchase an asset or assume a liability. The determination of what a willing
 counterparty would offer to purchase an asset or assume a liability should consider
 all available market information that the market participants would use to price the
 asset or liability.

A discussion of the application of principal market to certain instruments has been included in Appendix A

See also discussion of transaction costs below.

C. Valuation/Measurement

Valuation techniques² used to measure the fair value of an asset or liability should maximize the use of observable inputs, including inputs that reflect the assumptions market participants would use in pricing the asset or liability developed based on market data obtained from independent sources. Valuations must consider current market conditions and available market information and will therefore represent a market-based, not entity specific, measurement.

If an asset or a liability measured at fair value has a bid price and an ask price (for example, an input from a dealer market), the price within the bid-ask spread that is

most representative of fair value in the circumstances shall be used to measure fair value regardless of where the input is categorized within the fair value hierarchy. The use of bid prices for asset positions and ask prices for liability positions is permitted but is not required. Topic 820 also permits the use of mid-market pricing or other pricing conventions that are used by market participants as a practical expedient for fair value measurements within a bid-ask spread.

Fair value should be based on quoted market prices, where available. If listed prices or quotes are not available, then fair value is based upon internally developed models that use primarily market-based or independently-sourced market parameters, including interest rate yield curves, option volatilities and currency rates. In certain circumstances valuation adjustments must be made to ensure that financial instruments are recorded at fair value. These adjustments should be applied consistently over time and may include:

- <u>Credit valuation adjustments</u> ("CVA") are necessary when the market prices (or parameters) are not indicative of the credit quality of the counterparty.
- <u>Debit valuation adjustments</u> ("DVA") are necessary to reflect the impact of the Firm's own creditworthiness in the valuation of liabilities that are carried at fair value. See further discussion of DVA in Appendix B of this policy. See also discussion of Liability considerations below.
- <u>Liquidity valuation adjustments</u> are necessary when the Firm may not be able to
 observe a recent market price for financial instruments that trade in inactive (or less
 active) markets or to reflect the cost of exiting larger-than-normal market-size risk
 positions. Liquidity adjustments are based upon the following factors:
 - The amount of time since the last relevant pricing point
 - Whether there was an actual trade or relevant external quote
 - The volatility of the principal component of the financial instrument
- Valuation adjustments are prohibited when fair value is measured using a quoted
 price of an identical asset or liability. In addition, the application of position sizebased premiums and discounts to level 2 and level 3 instruments is prohibited
 except where the asset or liability being valued is considered single unit of account,
 and a sized-based adjustment would be applied by market participants.
- o Costs to exit larger-than-normal market-size risk positions are determined based upon the size of the adverse market move that is likely to occur during the extended period required to bring a position down to a nonconcentrated level. Size of position adjustments may be considered when applying the portfolio exception (as described in Section IV.A), if such adjustments would be considered by a market participant.
- <u>Unobservable parameter valuation adjustments</u> are necessary when positions are
 valued using internally developed models that use unobservable parameters
 (parameters that must be estimated and are therefore subject to management
 judgment) as their basis. Risk-averse market participants generally seek

compensation for the uncertainty associated with the cash flows of an asset or liability (risk premium).

Uncertainties and customization related to loan securitization for loans that are
expected to be securitized, fair value is estimated based on observable pricing of
asset-backed securities with similar collateral and incorporates adjustments (i.e.,
reductions) to these prices to account for securitization uncertainties including
portfolio composition, market conditions and liquidity to arrive at a whole loan
value.

Restrictions

There are generally two types of restrictions:

Restrictions on sale

Examples of a restriction on sale include restrictions on private placements, underwriter lock-up, and volume restrictions. An adjustment must be made to the value of the instrument to reflect the price adjustment that a market participant would make due to the lack of marketability. An adjustment for a restriction should be re-evaluated and adjusted appropriately as the time to the expiration of the restriction decreases.

Note: When a publicly traded security position incorporates both restricted and non-restricted securities, the adjustment for restrictions will be applied only to the restricted shares. For example, securities subject to SEC Rule 144 restrictions may have portions of the position that are unrestricted depending on trading volume. Additionally, SEC Rule 144 shares may be free to trade if a shelf registration has been filed.

Restrictions on use

An example of a restriction on use would include a restriction on the use of a physical asset such as land or a building. An adjustment cannot be taken as a result of the restriction if it is deemed to be a restriction on use.

The determination of whether a restriction should be incorporated in the valuation of an asset or liability requires judgment and consultation with Corporate Accounting Policies.

<u>Liability considerations</u>—a fair value measurement for a liability assumes (1) that
the liability is transferred to a market participant and the liability to the
counterparty continues (it is not settled), and (2) that the risk of nonperformance is
the same before and after the transfer. Nonperformance risk or the risk that the
obligation will not be fulfilled impacts the amount at which a liability would be
transferred.

The adjustment to a valuation for nonperformance risk (or the impact of the Firm's own creditworthiness) is called the Debit Valuation Adjustment or "DVA." See further discussion of DVA in Appendix B of this policy.

D. Valuation Hierarchy

All instruments measured at fair value are required to be classified within a three-level hierarchy that is primarily used for external disclosure purposes. The fair value hierarchy prioritizes inputs to the valuation of an instrument. When the inputs to the valuation fall within different levels of the hierarchy, the level in which the instrument is classified is based on the lowest level significant input to the valuation.

Detailed below is a description of the hierarchy levels, the Firm's policies associated with the determination of classification, and examples³ of products included within each of the levels:

Note: Maintenance of documentation to support the level of classification for a product within the fair value hierarchy is the responsibility of the Line of Business Controllers and CFOs.

Level 1—inputs to the valuation methodology are quoted prices (unadjusted) for identical assets or liabilities in active markets.

- An active market is defined as one in which an accurate daily price can be obtained
 from multiple reliable sources and a fair value measurement (exit price) may be
 arrived at without adjustment or the use of a model.
- Where a quoted price in an active market is available for the identical asset but
 pricing of the individual instruments is not practical/efficient, the Firm may use an
 alternative pricing method (for example, matrix pricing). Where an alternative
 pricing method is utilized as a practical expedient the instruments must be
 classified in a lower level of the hierarchy.

Examples of Level 1 instruments:

Highly liquid government bonds, certain mortgage products (for example, residential agency pass-through securities), exchange-traded equities, and exchange-traded derivatives.

Level 2—inputs to the valuation methodology include:

- · Quoted prices for similar assets or liabilities in active markets.
- Quoted prices for identical or similar assets or liabilities in markets that are not
 active, that is, markets in which there are few transactions for the asset or liability,
 the prices are not current, or price quotations vary substantially either over time or
 among market makers (for example, some brokered markets), or in which little
 information is released publicly (for example, a principal-to-principal market).
- Inputs other than quoted prices that are observable for the asset or liability, either
 directly or indirectly, for substantially the full term of the financial instrument (for
 instance, interest rates and yield curves observable at commonly quoted intervals,
 volatilities, prepayments speeds, loss severities, credit risks, and default rates).
- Inputs that are derived principally from or corroborated by observable market data by correlation or other means (market-corroborated inputs).

There is generally evidence of two-way flow (purchases and sales in the market) for instruments that are classified within Level 2.

Examples of Level 2 instruments:

Common stocks traded and quoted on an inactive market in an emerging country, privately placed bonds whose value is derived from a similar bond that is publicly traded, over-the-counter interest rate swaps valued based on a model whose inputs are observable LIBOR forward interest rate curves, resale and repurchase agreements, warehouse loans, and debt obligations, certain high-yield debt securities, as well as certain structured liabilities where the inputs to the valuation are primarily based upon readily observable pricing information.

Level 3—inputs to the valuation methodology are unobservable and significant to the fair value measurement. Fair value for Level 3 instruments is based on internally developed models in which there are few, if any, external observations. For transactions in this category, there is rarely a two-way market, and typically there is considerable structuring (making the product largely one-off and JPMC specific).

- Unobservable inputs should only be used when observable inputs are not available (inputs are unobservable when they reflect the Firm's own assumptions about the assumptions market participants would use to price the instrument).
- The exit price measurement objective remains the same in Level 3; therefore, the Firm's own data should be adjusted if there is contrary data indicating that market participants would use different assumptions to price the instrument.
- In certain circumstances, an instrument that is classified within Level 3 at inception
 may become more observable as it approaches maturity. In those cases, when the
 unobservable component is no longer significant, the instrument will be transferred
 to Level 2 at that time.

Instruments for which there is an unobservable input are generally classified within Level 3. If there is evidence present to demonstrate that the unobservable inputs are not significant to the valuation through evidence such as two-way market trades, extensive pricing agency data, broker data or other relevant trade information, the instrument may be classified within Level 2.

Examples of Level 3 instruments:

Long-dated commodity swaps where the relevant forward price curve is not directly observable or correlated with observable market data, shares of a privately held company, structured notes with significant unobservable inputs, mortgage servicing rights, retained interests in securitizations, and goodwill.

E. Transaction Costs

The price in the principal (or most advantageous) market used to measure the fair value of an instrument should not include transaction costs. Transaction costs represent incremental direct (i.e., invoiced) costs to transact in the principal or most advantageous market, are not an attribute of the asset or liability being measured, and are reported as direct expenses in the Consolidated Statement of Income with limited

exception (see Corporate Accounting Policy #1-0107, "Netting of Assets and Liabilities and Related Income and Expense"). Transaction costs include, but are not limited to, invoiced brokerage and commissions and certain due diligence costs.

Transaction costs which are incorporated within the bid offer spread (i.e., in-the-price brokerage) are reported net within principal transactions and are not separately identified for reporting purposes.

Transaction costs do not include the costs that would be incurred to transport an asset or liability to (or from) the principal (or most advantageous) market. Where location is an attribute of the asset or liability as may be the case for a commodity, the price in the principal or most advantageous market used to measure fair value of the asset or liability should be adjusted for the costs that would be incurred to transport the asset or liability to (or from) its principal (or most advantageous) market.

F. Other Considerations

Cut-off time

For instruments for which quotes are available prices must be obtained at the same time each business day. This includes cases where products are valued using models even though market prices are available in other time zones (for example, when trading across different exchanges). In addition, prices for hedges and the items being hedged must be sourced at the same time of day.

For internal trades between portfolios based in different regions, each side may be priced using the closing price obtained at the appropriate cut-off point in the relevant region.

V. CROSS-REFERENCES

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Corporate Accounting Policy #1-0106, "Fair Value Option"
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Corporate Accounting Policy #1-0107, "Netting of Assets and Liabilities and Related Income and Expense"

Corporate Accounting Policy #1-0108, "Guarantees"

Corporate Accounting Policy #1-0112, "Consolidation of Variable Interest Entities"

Corporate Accounting Policy #2-0301, "Repurchase/Reverse Repurchase Agreements and Securities Lending and Borrowing"
Corporate Accounting Policy #2-0401, "Trading Securities"
Corporate Accounting Policy #2-0501, "Investment Securities"
Corporate Accounting Policy #2-0603, "Loan Securitizations"

Corporate Accounting Policy #2-0604, "Commercial Loans and Lending Facilities" Corporate Accounting Policy #2-0605, "Consumer Loans" Corporate Accounting Policy #2-0701, "Long-Lived Assets (Other than Internal Use Computer Software/Web Site Development)

Corporate Accounting Policy #2-1001, "Foreclosed Assets"

Corporate Accounting Policy #2-1005, "Investments in Nonmarketable Equity Securities" Corporate Accounting Policy #3-0701, "Long-Term Debt"

Corporate Accounting Policy #5-0101, "Accounting for Derivatives and Hedging Activities"

Corporate Accounting Policy #6-0101, "Accounting for Lending-Related Fees"

Corporate Accounting Policy #6-0102, "Interest Income Recognition"

VI. REFERENCES TO AUTHORITATIVE LITERATURE

FASB Statement No. 107, Disclosure about Fair Value of Financial Instruments FASB Statement No. 115, Accounting for Certain Investments in Debt and Equity Securities

FASB Statement No. 123R, Share Based Payment FASB Statement No. 141 Business Combinations

FASB Statement No. 143, Accounting for Asset Retirement Obligations

FASB Statement No. 157, Fair Value Measurements
FASB Statement No. 159, The Fair Value Option for Financial Assets and Liabilities

ASR No. 118, Accounting, Valuation and Disclosure of Investment Securities

APPENDIX A

Fair Value Measurements for Certain Instruments Carried at Fair Value

This Appendix is intended to give further background regarding the fair value measurements for certain instruments carried at fair value. The list is not meant to be all inclusive.

I. Derivatives: IB Market-Making under portfolio exception

Background

The Firm makes markets in derivative contracts, transacting with retail and institutional clients as well as other dealers.

Valuation Premise

For the IB market making portfolio, JPM has elected to apply the portfolio exception provided in Topic 820. As a result, the unit of account is the net open position

Relevant Market

In general, the dealer market is the Firm's principal market for derivative transactions as the greatest volume of derivatives activities occur in the dealer market and the Firm's IB market making businesses have access to that market. In addition the dealer market is the most advantageous exit market for the Firm.

• Valuation/Measurement

As a result of electing the portfolio exception, the unit of valuation for IB market-making derivatives is the portfolio. The starting point for the valuation of the IB market-making derivatives portfolio is mid market. As a dealer, the Firm can execute at or close to mid market thereby profiting from the difference between the retail and dealer markets. If the Firm cannot exit a position at mid market certain adjustments are taken to arrive at exit price. (See Section IV.C. of this policy for a discussion of valuation adjustments.)

II. Structured Notes/Repos/Resales

Background

The Firm issues structured notes as a means to deliver derivative risk to retail and institutional clients that wish to invest in derivative risk in a funded format. Derivative risk, which may include credit risk, interest rate risk, foreign exchange risk, commodity risk and equity risk, is embedded in a debt host contract and issued in the Firm's name. The derivative risk is the primary driver of the profit and loss.

• Valuation Premise

The valuation premise for structured notes is on a standalone basis. The unit of account is the transaction.

Relevant Market

There is no active secondary market for most structured note products and sales to third parties are rare. Dealers (issuers) will provide indicative quotes for their own paper and will repurchase or unwind with the original counterparty (investor). A dealer generally will not buy instruments issued by others. As such, not all market participants operate on both sides of the structured notes market.

The principal market for the Firm is the primary (issuance) market for structured notes. Market participants include other dealers (issuers) to whom a liability could be transferred (who take positions on the liability side of their balance sheets).

Valuation/Measurement

To estimate the fair value of structured notes, cash flows are evaluated taking into consideration any derivative features and are then discounted using the appropriate market rates for the applicable maturities. As the primary risk in the "funded derivative" is derivative risk, market participants that issue structured notes use the same assumptions in valuation as those used in deriving an exit price in the derivatives market. In the absence of actual data for liability transfers for this product, the hypothetical transaction is based on assumptions in active markets for similar risks (derivative market).

III. Mortgage Loan Warehouses

Background

The Firm purchases and originates mortgage loans for securitization. Types of mortgages include: Agency mortgages (conforming mortgages sold to GNMA, FNMA and/or Freddie MAC) Alt-A, Alt-B, subprime and commercial mortgages.

Valuation Premise

The unit of account is the mortgage loan. Mortgage warehouse loans are valued on a standalone basis.

Relevant Market

The principal market for a product or instrument is the market in which the Firm transacts with the greatest volume or level of activity. The securitization market is the principal market for mortgage warehouse loans as securitization is the primary exit strategy for the Firm.

• Valuation/Measurement

Fair value is based upon observable pricing of asset-backed securities with similar collateral and incorporates adjustments (i.e., reductions) to these prices to account for securitization uncertainties including portfolio composition, market conditions and liquidity to arrive at a whole loan value.

Valuation technique

All mortgage warehouse loans should be priced using a mock securitization (bond execution) basis, which is a market approach valuation technique. Under this approach, structuring models (combined with Rating Agency modeling approaches) are used to create representative deal structures, including bond levels by rating with loss coverage amounts and reflect the "offer" side of the market where the securitization take out occurs.

IV. Mortgage Servicing Rights

Background

Mortgage servicing rights ("MSRs") represent rights to receive cash payments in connection with performing the tasks required to service pools of previously sold mortgage loans. These cash payments include, but are not limited to, negotiated servicing fees, interest earned on escrow balances, late fees, and float earnings on principal/interest payments.

Valuation Premise

Pooling of MSRs maximizes value to the market participants by both creating less uncertainty in the cash inflows and permitting the market participant to benefit from cost synergies that occur in servicing more mortgage loans. As a result of these benefits, market participants see more value for MSRs that are pooled in a portfolio than they would for individual servicing contracts. Consequently, the highest and best use of MSRs from the perspective of marketplace participants is in-use.

Relevant Market

MSRs are not traded actively with readily observable prices; sales are typically negotiated and brokered privately between entities. Trading volume is infrequent and unlike the brokering of a financial asset, the entities transacting must have a servicing platform and be able to perform the required servicing. Sales of MSRs are also subject to approval by investors in the mortgage-backed securities issued when the underlying loans were securitized. Based on the above, the principal market for MSRs, for the Firm, is a hypothetical market where the market participants have extensive servicing capabilities and benefit from certain cost economies of scale.

Valuation/Measurement

The valuation of MSRs is generally estimated by calculating the present value of the estimated <u>net</u> future servicing cash flows to be received over the life of the servicing contract. The net cash flows are comprised of servicing revenues less related costs of servicing. The maximization of MSR value must either increase the cash inflows or decrease the costs of servicing.

APPENDIX B

JPMC Implementation of DVA

(See also discussion of liability considerations in Section IV.C. of this policy.)

In order to incorporate the effect of changes in the Firm's creditworthiness in derivative valuations, and because there is no industry standard for such calculations, the Firm developed its DVA methodology utilizing assumptions that it believes other market participants would use to value liabilities due by the Firm.

Specifically, the Firm leverages its current Credit Valuation Adjustment (CVA) methodology used to calculate and record the effect of counterparty credit risk for derivative receivables. The CVA is derived by calculating an expected positive exposure (EPE) at time of counterparty default (including certain collateral assumptions) and applying to it the counterparty's credit spread or a proxy thereof and a standard default recovery rate to arrive at an adjustment for credit. Similarly, DVA is calculated as expected negative exposure (ENE) x JPMC's market credit spread and a standard recovery assumption. Details for each of these key inputs follow.

Expected Negative Exposure (ENE)

The basic building block for DVA is Expected Negative Exposure (ENE); that is, what the Firm would expect to owe derivative counterparties at the time of its default. This is computed by first generating possible scenarios of underlying market factors and averaging over all portfolio market-to-market values, treating positive values as zero. These scenarios take into account the impact of legally enforceable netting agreements and existing collateral agreements with the counterparty as well as collateral agreements which are probable of being enacted in the event of a significant deterioration in the Firm's credit standing.

Legally enforceable netting agreements

The Firm has master netting agreements in place with virtually all derivative counterparties. Upon default or termination of any one contract, a master netting agreement provides for the net settlement of all contracts with the counterparty through a single payment in a single currency. The netting provisions in the agreement are legally enforceable and as such would serve as a mitigant (a reduction) to ENE to the extent that the Firm had positive exposure to the respective counterparty for other derivative contracts. An important assumption that the Firm makes for both CVA and DVA is that the Firm would not settle all deals where possible. The Firm believes that this assumption is well corroborated by its behavior and the behavior of other market participants. The Firm also believes that the incorporation of netting agreements into the DVA calculation is supported by paragraph 15 of Statement 157 which indicates that the terms of credit enhancements related to a liability should be incorporated in the value of that liability. Although it deals with presentation, Paragraph 21 of FIN 39 also acknowledges that credit risk is best reflected by net amounts under a master netting agreement.

Existing collateral arrangements with counterparties

Consistent with the Firm's approach regarding master netting agreements, the Firm incorporates the existence of collateral agreements in deriving the ENE. The Firm assumes that a counterparty to which an assignment was being made would demand credit protection comparable to that obtained by the transferor, thus requiring reflection in the exit price.

Probable collateral arrangements

In an idiosyncratic default scenario, the Firm also considers the probability of new credit enhancements being required at the time of the credit event. This assumption impacts the exposure (ENE) to the Firm's counterparties as the Firm's credit deteriorates.

As the Firm heads to default idiosyncratically, in order to maintain its derivatives franchise the Firm would likely be required by its counterparties to either enter into unilateral collateral agreements where there are none, or to renegotiate existing collateral agreements to terms more favorable to the Firm's clients. For modeling purposes, the assumption is that a unilateral collateral agreement, in favor of the client, would be put into place. Consideration of the impact of probable credit enhancements within the valuation appropriately prevents the recognition of a gain that would not be realized due to the imposition of a new collateral agreement.

While it is clear that derivative counterparties impacted by the Firm's credit deterioration would request additional credit support, there is also evidence suggesting that market participants faced with a call for additional collateral would also respond by posting collateral in order to protect their derivative franchise. The Firm notes that several firms have established AAA-rated entities to house their derivatives activity for precisely this reason.

JPMC Credit Spread

The second major component of the DVA calculation is the Firm's credit spread. An observable market indicator of the Firm's creditworthiness, the credit spread is the sum of (a) the market risk premium (reflecting the market's perception of the Firm's credit risk or the systemic risk) and (2) the real probability of default (the idiosyncratic entity-specific risk factor).

The Firm currently uses counterparty credit spreads from the credit default swap market to calculate the CVA. Credit default swap spreads assume a recovery assumption. Many of the Firm's competitors also use credit spreads to assess the credit risk associated with counterparty receivables. It is therefore reasonable to assume that market participants would similarly include the Firm's observable credit spread as a key input in derivative valuations.

The Firm's CVA methodology is based on the best evidence of how sophisticated market participants value the credit risk inherent in derivative transactions. The DVA methodology applies the same logic where the Firm is in a payable (versus receivable) position. In order to validate the reasonableness of the methodology and how credit would be considered in the transfer of a liability, the Firm considered recent transactions where the impact of the counterparty's creditworthiness was clearly

considered in the unwind price of a derivative receivable. The Firm believes that where an entity is required to assess its own creditworthiness for liabilities which it records at fair value, an adjustment similar to that applied for counterparty creditworthiness is appropriate and, although based on limited historical evidence, supportable. The Firm believes that this methodology will also be validated by the pricing of future unwinds/assignments and as such, the Firm believes that its calculation of DVA—the product of the ENE, the JPMC credit spread, and a standard recovery rate—produces an exit price consistent with that derived by a market participant.

Other considerations - DVA for structured notes

In order to assess nonperformance risk for structured notes, the Firm leveraged the current DVA methodology applied to derivatives with limited modification. Modifications were based on the following:

- Cash flows on derivatives may be either positive (inflows) or negative (outflows), whereas cash flows on a structured note are all outflows. As a result, for structured notes, the equivalent of the ENE (within the derivative calculation) is the libor flat discounted cash flows for the note.
- Due to operational constraints, the DVA methodology for structured notes assumes that there is only one cash outflow which happens at maturity, similar to a zero coupon note.

The DVA methodology for structured notes is based on readily available information (data) for the underlying structured notes. The data required is: 1. fair value of the structured note in its entirety (excluding the impact of the Firm's credit) and 2. the expected maturity of the instrument. The methodology calculates an adjustment to the fair value based upon the Firm's survival probability at the expected maturity date of the instrument. The formula is as follows:

$$DVA = FV * (1-SP(EM,RR))*(1-RR)$$

- FV: the model-based fair value of the instrument as reported on the Firm's books and records (exclusive of the Firm's credit spread). The fair value represents the expected negative outflows as described below.
- SP(EM,RR) is the Firm's survival probability at the note's expected maturity EM, which is the equivalent of the JPMC credit spread X a recovery rate RR.

The Firm's use of CDS spreads to calculate the DVA for structured notes is principally based on the substance of the instruments being valued. Structured notes can be viewed as funded derivatives or hybrid instruments that are similar in many ways to derivatives. As market participants within the hypothetical wholesale market for structured notes would include other dealers; and as other dealers generally incorporate an adjustment for credit risk into the fair value (exit price) of derivatives using liquid/observable CDS spreads; the Firm has consistently used CDS spreads to value similar risks within the structured note population.

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APPENDIX C

Nonrecurring Fair Value Measurements

Certain assets, liabilities and unfunded commitments are measured at fair value on a nonrecurring basis; that is, the instruments are not measured at fair value on an ongoing basis but are subject to fair value adjustments in certain circumstances (for example, when there is evidence of an impairment or there is a lower of cost or fair value adjustment.)

Examples of instruments that are subject to nonrecurring fair value adjustments include:

- Held-for-sale loans or commitments carried at lower of cost or fair value; see Corporate Accounting Policy #2-0604, "Commercial Lending Facilities."
- Held-for-investment (accrual) loans that are impaired and are written down to fair value based on the fair value of the underlying collateral, or based on an observable market price; see Corporate Accounting Policy #2-0611, "Allowance for Credit Losses."
- Equity investments accounted for either at cost or under the equity method; see Corporate Accounting Policy #2-1005, "Investments in Nonmarketable Equity Securities"
- Goodwill and other intangible assets; see Corporate Accounting Policy #2-1004, "Intangible Assets and Goodwill."
- Long-lived assets including real estate, fixed assets, assets under operating leases, and capitalized software; see Corporate Accounting Policies #s 2-0701 to 2-0705, "Premises and Equipment."

ENDNOTES

- An orderly transaction assumes exposure to the market for a period prior to the measurement date to allow for marketing activities that are usual and customary for transactions involving such instruments; it is not a forced transaction (for example, a forced liquidation or distress sale).
- ² Valuation techniques may include:

Market approach

The market approach uses prices and other relevant information generated by market transactions involving identical or comparable assets or liabilities and may include use of matrix pricing or market multiples derived from a set of comparables.

Income approach

The income approach uses valuation techniques to convert future amounts (for example, cash flows or earnings) to a single present amount (discounted). Valuation techniques include present value techniques; option pricing models, such as Black-Scholes-Merton formula (a closed-form model) and binomial model (a lattice model) which incorporate present value techniques, and the multi-period excess earnings method, which is used to measure fair value of certain intangible assets.

Cost approach

The cost approach is based on the amount that currently would be required to replace the service capacity of an asset (otherwise known as current replacement cost)

- The examples provided are generalized across asset classes. Classification within the valuation hierarchy is based on a review of the products and the related facts and circumstances including the significance of any unobservable inputs to the valuation methodology.
- Within this appendix, the term "structured note" is used to refer structured notes, structured repo and structured resales.
- 5 Another consideration is that even for an entity with servicing capability, the size of the servicing operations may not provide adequate economies of scale in its own servicing cost structure.
- 6 The final ENE is a weighted average of the results from the two default scenarios (a systemic default and an idiosyncratic default).
- 7 In the systemic default scenario it is much less clear that the Firm's counterparties will be able to impose or change collateral agreements in their favor, thus incremental collateral has not been considered.
- Underlying data collected from the businesses include carrying value, expected maturity and Legal Entity (to determine the application of the bank versus holding company spread).

From: Iksil, Bruno M <bruno.m.iksil@jpmchase.com>

Sent: Thu, 01 Mar 2012 05:44:04 GMT

Stephan, Keith <keith.stephan@jpmorgan.com> ٠0:

Subject: Fw: Core credit book update

----- Original Message -----From: Iksil, Bruno M Sent: Wednesday, February 29, 2012 10:27 PM To: Martin-Artajo, Javier X Subject: Core credit book update

I have sold important amounts of protection in ig9 10 γ r (close to 7 δ ln all day or 3.5m cs01) and this will push the cs01 beyond the 25m limit. This is related to month end price moves that were all adverse although we could limit the damage.

I reckon the cs01 will jump to 28m (I bough protection for approx 500k in hy and xover) from 25m this morning. I went back inside the 25m limit this morning initially but there was an insistent bid on ig9 10yr later in the day. Among the other weird moves we observed today, I picked this one because this is the most obvious one when we analyze the lags we have in the core book.

I will correct the breach tomorrow buying back some protection on main s16 mostly and us hy. Initially, I sold risk in hy in front of the risk I added in ig9 10 μ r but the hy market could not provide enough risk versus the size I was trading in ig9.

the reason why ig9 10yr was well bid was that MBIA was reporting its earnings at the close. Hence, into the us close, I could see good bids for risk in hy17 (that has mbia in it) but the protection became bid in ig9 10yr (while the ig9 5yr was tightening!). So I engaged in selling protection in ig9 10yr. It was modest at first and became agressive as we drew towards ny close. Then the bids for risk in hy vanished and I could not offset all the risks properly. I did not want to run after the market prices after the close in

I bought a little ig17 Syr but in a very small amount. I apologize for the trouble it may cause. This would not create a material long risk exposure in term of say 50pct credit spread widening (50m or so). It is unfortunate that it happens at month end the day when mbia reports its earnings at the close. The exposure to mbia default is not materially altered because the 5yr cds trades at 27-28 pts upfront plus 500running. So, a lot is priced in. More I sold risk in hy17 that contains mbia.

This trade will also increase the rwa snapshot at month end I am afraid.

Best regards

March 9, 2012

Transcript of Call 5601530708350439343.txt

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1	TRANSCRIPTION OF TELEPHONE TAPES
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Page 1

Draft Transcript - Subject to Review and Correction Likely Contains Errors

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JPM-C1O 0003445

March 9, 2012

Transcript of Call 5601530708350439343.txt

1	Call #5601530708350439343
2	
3	Custodian: Julian Grout
4	Participants: Bruno Iksil, Julian Grout
5	
6	MR. IKSIL: Hello.
7	MR. GROUT: Hello, Bruno.
8	MR. IKSIL: Yes.
9	MR. GROUT: Are you doing well?
10	MR. IKSIL: Yes.
11	MR. GROUT: Very well. Are you
12	well rested this week?
13	MR. IKSIL: Yes.
14	MR. GROUT: Are you relaxed?
15	MR. IKSIL: Yes, yes, I don't want
16	to go back home, so I'm relaxed.
17	MR. GROUT: I know. This is a
18	radical change.
19	MR. IKSIL: Yes, this is very good
20	for me. You will see, it's a party over here.
21	Just one thing to clarify. In fact, Eric
22	updated the flight curve to around 12 noon.
23	MR. GROUT: Yes.
24	MR. IKSIL: And we didn't change it
25	since then because I must say that I am not very

3

1 much aware ---

2 MR. GROUT: Yes, yes, it seems

Page 2

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12		
	3	Transcript of Call 5601530708350439343.txt correct to me.
	4	MR. IKSIL: The year-to-date
	5	overall when I see Atlas it is closer to the
	6	one I see in the Atlas.
	7	MR. GROUT: Yes, okay, very well.
	8	MR. IKSIL: You see, by strategy
	9	this is not it. I have negative 0.4 with regard
	10	to Core and negative 0.5 on tactical, but I have
	11	2.2 million in reserve.
	12	MR. GROUT: So you should release
	13	the 2.2 million.
	14	MR. IKSIL: I release 2.2 million?
	15	This leads to 700 versus negative 1.4.
	16	MR. GROUT: Yes, that's good.
	17	(Inaudible).
	18	MR. GROUT: Is it Cooti (phonetic)
	19	or Cooti and credit? It's all included.
	20	MR. IKSIL: That's all.
	21	MR. GROUT: Okay. Very well, very
	22	well, very well. I see very well what they're
	23	doing. And that's it, it's JP, so one shouldn't
	24	try to understand. As you can see, I had this
	25	meeting with (inaudible). Of course the guy is

4

- super bulletproof.
- 2 Risk LIB. The guys take a model
- 3 from CRM LIB that is blowing a fuse. The guys
- 4 at flow LIB defend him systematically so
- 5 everything is going well, it's normal.

Page 3

March 9, 2012

6	Transcript of Call 5601530708350439343.txt MR. IKSIL: (Inaudible).
7	MR. GROUT: And fortunately thanks
8	to our friends in New York, we are sure that
9	it's going to continue.
10	well, you know, you shouldn't
11	one must not be a philosopher.
12	MR. IKSIL: Yes, yes.
13	MR. GROUT: We don't really have a
14	choice. There's life after that. That's true,
15	there is life after that and that's the way it
16	is.
17	The result is not so bad after all.
18	In fact, when you see how we messed up, it's not
19	so bad.
20	MR. IKSIL: Yeah, here it's pushing
21	it a little bit.
22	MR. GROUT: Yes, yes, of course,
23	yes.
24	MR. IKSIL: So you will see
25	MR. GROUT: Yes, yes, I imagine. I
	5
1	see that very well.
2	Is Ravi does Ravi know about the
3	magnitude?
4	MR. IKSIL: I told him, yes, I told
5	him.
6	I hold him that they had to push
7	back two or three BIS today. There's nothing
8	they could do it. Everything is calm. It was
•	

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Page 4

4

5

9	Transcript of Call \$601530708350439343.txt yesterday, in fact, that worrisome
10	MR. GROUT: Yes.
11	MR. IKSIL: It was with
12	(inaudible). The guys did not want to give me
13	any colors. It was something that did not make
14	any sense anyway.
15	MR. GROUT: That's okay. Report
16	that thing that was accumulated day after day
17	and that's it. You see?
18	Here we're lagging we're lagging
19	well, you'll tell me this on Monday and
20	anyway, I see the impact very well. I have a
21	vague idea you know how this is going to end up.
22	You know that (inaudible) Trevor is
23	going to try to get some capital, Ina will say
24	πο, so it will be a big fiasco and it will be a
25	dig drama when, in fact, everybody should have
	6
1	should have seen it coming a long time ago
2	and everybody's and everybody's working in a
3	way that would lead for that to happen.
• 4	So you see all that we're going to
5	do is that when we get to the end of the month,
6	we will we will lose another 200 pars, and at
7	the end of the month we will defend ourselves
8	and we will say in the end, this is your fault,
9	and that's it.
10	Anyway, you see we cannot win here.

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I don't focus on Core right now. It's not worth

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11

March:	9, 2	201	2
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12	Transcript of Call 5601530708350439343.txt it. It's not worth it. We're fighting against
13	our own firm. So you see we have to think.
14	MR. IKSIL: Um-hum.
15	MR. GROUT: What is important is
16	what you mentioned and that is Radiant
17	(inaudible). That all rallies except the ones
18	that are holding Radiant. I am sure that the
19	five years rallied.
20	MR. IKSIL: The five years plunged.
21	MR. GROUT: But the five years did
22	not last five years, so you see wouldn't you
23	know that it's your own firm that is doing this?
24	What do you want to do? What do you want to do?
25	It's not worth it, you see. This

	. 7
	, , , ,
1	is a (inaudible). It's not worth the fight.
2	MR. IKSIL: Um-hum.
3	MR. GROUT: One must be
4	philosopher. Just keep it like this. We keep
5	the flotation line and we drown nicely and
6	quietly and if we have to accelerate, we never
7	know, we may get a loan.
8	(Inaudible).
9	MR. IKSIL: I spoke to our analyst
10	once again about Radiant today. This is an
11	interesting situation, in fact, because I think
12	that Dire (phonetic), Radiant, you have two
13	companies, you have Goldman Sachs. This is

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really on a single name --

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Marci	h 9,	201	12
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. 1	Transcript of Call 5601530708350439343.txt MR. GROUT: Yes.	
10	MR. IKSIL: Okay and JP on the	
17	index, in fact.	
18	MR. GROUT: Yes.	
19	MR. IKSIL: So you see on JP we	
20	lose the index. On (inaudible).	
23	MR. GROUT: Yes.	
22	MR. IKSIL: And you see, in fact,	
2	that when of the guys talked to you when th	e
24	guys speaks to you I asked the guy did	
2!	everything go well this year? He said no, not	
₽		
		8
	at all. I don't know anything about this. We	
2	• •	
3	· ·	
4	focus on the maturity that they have in Januar	у
·		
(MR. GROUT: Yes.	
;	MR. IKSIL: They say yes, yes,	
8	they're going to be able to pay it back no	
g	problem, but that's not the problem. They cou	1d
. 10	always pay it back. They have enough cash to	
13	pay it back today if they needed. You see?	
` 12	MR. GROUT: Um-hum, um-hum, um-hu	m.
13	MR. IKSIL: The problem is what's	
14	going to happen if they have to admit their lo	SS
15	or not.	

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MR. GROUT: Yes.

Page 7

MR. IKSIL: And here, you see, here

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16

17

March	9, 2	012
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	18	Transcript of Call 5601530708350439343.txt is where it gets interesting. This is where th	e
	19	guys are this is where the lady from Goldman	l
	20	told me anyway, the regulator, which is the	
	21	Insurance Department of Pennsylvania, which is	
	22	the one regulating Radiant	
	23	MR. GROUT: Yes.	
	24	MR. IKSIL: they are the less	
ģ ·	25	strict in the country, ironically, you see.	
•			9

1	MR. GROUT: Yes.
2	MR. IKSIL: And they have no
3	interest in to put Radiant (inaudible).
4	You see, the other analyst said,
5	you know, it is in their best interest to
6	protect the policyholders.
7	MR. GROUT: Yes, yes.
8	MR. IKSIL: So I found it
9	interesting to see that I felt that there was
10	somebody who was pushing really.
11	MR. GROUT: Yes, there's a lot of
12	money involved.
13	MR. IKSIL: Yes. Yes, and it was
14	(inaudible) of course.
15	MR. GROUT: Um-hum, um-hum.
16	MR. IKSIL: (Inaudible), but here I
17	must finish
18	MR. GROUT: Go ahead. We see this
19	way if it's benign
20	MR. IKSIL: I forgot to update the
	Page 8

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March 9, 2012

,		
	21	Transcript of Call 5601530708350439343.txt G-9 curve. I stayed at 14.5 versus 34. I need
	22	to (inaudible) or I can do that on Monday.
	23	MR. GROUT: Yes, go ahead and do
	24	that on Monday. Forget about it. It's against
٠ ٩	25	us and it's going to complicate things for you
		10
	1	regarding P&L, so forget about it.
	2	MR. IKSIL: Yes.

MR. IKSIL: Yes.

3 MR. GROUT: Do it Monday.

MR. IKSIL: Yes. Okay, so have a

good last two days. Do you know what time you 5

get in on Monday?

MR. GROUT: I get in early.

8 Normally I should get there around 8:30 in the

. 9 morning. I have a meeting with (inaudible) --

MR. IKSIL: At 9 a.m.? 10

11 MR. GROUT: At 9 a.m., yes.

MR. IKSIL: (Inaudible). 12

13 MR. GROUT: Okay.

MR. IKSIL: Okay. 14

15 MR. GROUT: And anyway, it's our

16 future, you see. You see, when you're on

17 vacation, you see that this thing is dead at its

18 birth. It's going to die so what's going to --

it's a firm, it's a special firm, JP. 19

Everything is going well, it's dynamic, 20

21 everything is questioned very frequently, so we

22 will see what's going to happen.

23 We're going to try to do our job.

Page 9

Transcript of Call 5601530708350439343.txt I believe that it is better to say that it's

₽	25	dead, that we are going to crash. The firm will
		11
	1	service the debt. The CIO is perfectly prepared
	2	for (inaudible). You see what I mean?
	. 3	So we're going to be in the center
	4	of this thing. It's going to be very
	5	uncomfortable but we must not screw up. That's
	6	all. It's going to be very political in the
	7	end.
	8	That's it.
	9	MR. IKSIL: Yes.
	10	MR. GROUT: We'll see. We'll see,
	11	but if they but if they continue to push the
	12	G-9 complex like this, we may recharge
	13	(inaudible) because it's almost for free now if
	14	they continue.
	15	I'm still waiting a little bit, you
	16	see. We must have some rally that (inaudible)
	17	are compressed and at that point it's going to
	18	become interesting.
	19	MR. IKSIL: Yes.
•	20	MR. GROUT: It will become well
	21	where is the five years at this time?
	22	MR. IKSIL: Eighty-one thousand.
	23	MR. GROUT: Oh, yes, it grew very

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MR. IKSIL: Yes, but at the same

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24

well.

March 9, 2012

Transcript	of ·	Ca]]	5601530708350439343.t	xt

-	cilie, you see, what do we call it, kadiant, tha
2	12 lost 1.5 points, so so it's not the end o
3	the world.
4	MR. GROUT: Yes. Yes, if Radiant
5	(inaudible) the entire curve must converge.
6	MR. IKSIL: That's it. In fact,
7	their marketing point on the CNM is to say that
8	there's no problem in any way. They're going to
9	present a tender for January 2013, February
10	2013. So there's no interest in having CDLs
11	from December 2012 when we know for sure that
12	after that they're going to die.
13	MR. GROUT: Yes.
14	MR. IKSIL: You see, this is a good
15	marketing argument.
16	MR. GROUT: Yes. And while why
17	would they make a tender if they're certain
18	they're going to die? I don't understand the
19	objective very well. You see?
20	MR. IKSIL: Exactly. I think this
21	is something where they can, in fact, make
22	(inaudible)
23	MR. GROUT: Yes.
24	MR. IKSIL: They can say
25	(inaudible) February 2013 what's this mess.

13

1 MR. GROUT: Yes. So what you are Page 11

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March 9, 2012

	Transcript of Call 5601530708350439343.txt
2	going to do? Anyway, we'll see about that
3	Monday.
4	We're going to (inaudible) with our
5	equities. We are protected with (inaudible).
6	We don't have anything to worry about, in any
7	case. However, we must be careful.
8	MR. IKSIL: Yes. We must.
9	MR. GROUT: Okay. We have until
10	December to cover this thing. We have sometime
11	MR. IKSIL: Yes. In the meantime,
12	enjoy your last days.
13	MR. GROUT: Um-hum.
14	MR. IKSIL: Okay.
15	MR. GROUT: Okay.
16	MR. IKSIL: Okay.
17	MR. GROUT: Ciao.
18	(End of call.)
19	
20	
21	
22	
23	
24	
25	•

Page 12

Subject: Book ex-xls.zip

Date	Distance	iTraxx	CDX.IG	CDX.HY	iTraxx.Main
12-Mar-12	(203)	(59)	(90)	(53)	3.0
13-Mar-12	(207)	(61)	(90)	(55)	3.5
14-Mar-12	(269)	(82)	(136)	(58)	4.0
15-Mar-12	(292)	(83)	(181)	(38)	4.0

CDX.IG9 10y	C	DX.HY
	2.0	0.17
	2.0	0.18
	3.0	0.18
	4.0	0.12

Distance YTD	iTraxx.Main S9	CDX.IG9 10
(426)	8.6	5.7
(431)	10.0	5.7
(493)	9.0	6.8
(516)	7.8	7.8

From: Iksil, Bruno M <bruno.m.iksil@jpmchase.com>

***ent:** Mon, 19 Mar 2012 11:44:53 GMT

a: Martin-Artajo, Javier X <javier.x.martin-artajo@jpmorgan.com>

CC: Grout, Julien G <julien.g.grout@jpmchase.com>

Subject: Core Book analysis and proposed strategy

Book position

- The book has positive carry, P&L upside on defaults and positive convexity if spreads gap wider. It is relatively neutral directionally overall at current market spread levels>
- To obtain this profile, the book receives the forward credit spreads. When markets are caught in squeeze like this one, the P&L volatility can become very large: this is what is happening since the beginning of this year in CDX IG9 and Main ITRAXX S9 series. The hit amounts to 5-10 Bps lag in those forwards versus the 50-60Bps rally.
- The book incurred a loss of 100m usd IN us hy from KODAK default and RESCAP almost certain default : this weakness have been corrected now and offers decent upside in any new default in HY indices

Market behaviour

- The CDX IG9 and ITRAXX Main S9 are the series where index tranches still trade. This is where the street owns some protection especially in the longer tenors for capital relief reason and uncertainty about the timing of defaults.
- some large Hedge funds have some "skew trades" where they buy protection on the series 9 10yr indices versus the single names
- in the rally, those series (where the book is long risk and the street is short risk) have lagged consistently: by trading . I trying to correct the lag, we could retrieve 1-2bps but then we met strong resistance either with size or bid-ask widening.
- this year the tranche market depth has vanished: we can trade but small size each time with an appetite from dealers to load protection on the longest tenors.
- -in US HY, in addition to the 2 defaults, we face a flattening trend advertized by dealers saying that either we have defaults or we rally: either ways, the curve flattens and we have a steepener on.
- as a summary, the book is a very visible player and holds a trade that the street wants to have now: ie a protection against unpredictable defaults. At the same time, they still own their "no default" trades from last year. So the street systematically steepens the series 9 curves and maintain the longest tenors wider than anything else.

Proposed strategy: let the P&L fluctuate while not defending, just maintaining the upside on defaults over time

-CDX IG and ITRAXX MAIN: over the next 18 months

- buy back the protection in 0-3 10yr to reverse the profile (3Bln in main, 6bln in IG)
- buy some 0-3 in 7yr tenors (1bln main-2 bln in IG)
- sell protection over time on widenings to maintain the carry (5-10 Bln Main and IG)
- CDX US HY: over the next 18 months
 - put flatteners on in HY14-hy15-hy16-hy17 series while we own the protection on the 5yr now
 - let the longs in HY10-hy11 series live as they have lost already 18 names out of 100 and look safer than hy 14

to hy17 series

P&L possible range : the loss is likely to range between 100m to 300m $\,$

- main reason is the CDX IG9 lag (2-3bps or 100-150m)
- second next is CDX HY: the hit is another 100m spread within the tranche and index bid-ask. Typical here, you cannot really trade but the mid does not change.

- third is Main itraxx: the curve in S9 steepened by 5bps pushing the forward back up while the other curves steepened 1 bp in the rally. The hit here is 80-100m.
- the estimated bid-ask on the book grossly amounts to 500m all-in (200m for IG, 100m for ltraxx main, 200m for CDX HY).

Conclusion.

- the book has very useful features and should be maintained with its upside on defaults as much as possible,
- the market is very small now and we are too visible with likely some of our trades creating a concern among dealers: this affects us both in the bid-ask cost and the Mark_To_market because the street owns the long term protection to cover their legacy, ie "no default" trades mostly held in form of steepeners and long risk in short term equity tranches.
- there is a trap that is building: if we limit the Mark-To_Market we risk increasing the notionals further and weaken our position versus the rest of the market. One solution would be to let the book be really long risk, yet this would not be in a liquid market and may increase the P&L noise especially in corrections.
- the solution proposed amounts to be longer risk and let the book expire carrying the upside on default: I think we own here a very good position for a size that is also significant. This would involve some mechanical trading, ie buy protection on 10yr equity tranches, put flatteners in HY 14-17 and SELL protection on spread wdidening.

The PNL breakdwon and bid-ask analysis will come soon after. Julien is on it.

Bruno

Transcript of Call # 5601530708350332357

Participants: Bruno Iksil

Iksil

Hello Javier. It's Bruno. Again, you know we can't try to be close to the market prices and we would show a loss of 40 million core and 3 million in tactical and I wanted to know if that was okay with you. I'm going to send you an SMS to get your, your approval. We're still in the range but its three(?) everywhere so, as I try to get closer to the target and I don't want to make it last you know. I think we should, we should start, start showing it. Please call me back if you can or just reply to my SMS please.

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From: Martin-Artajo, Javier X <javier.x.martin-artajo@jpmorgan.com>

Sent: Wed, 21 Mar 2012 14:55:33 GMT

J: Drew, Ina <Ina.Drew@jpmorgan.com>

CC: Macris, Achilles O <achilles.o.macris@jpmorgan.com>; Goldman, Irvin J

<irvin.j.goldman@jpmchase.com>

Subject: Synthetic Book

lna,

the purpose of the meeting is to highlight an important issue that are appearing in the book from the market in terms of P/L but is related to the findings that we have made so far regarding the RWA's of the book.

Our recent changes in the book and capital have highlighted that we have reduced **our RWA by 10 Bin** from the beginning of the year and also increased the IB's RWA too for a similar ammount. This result is a larger reduction in RWA than what we thought in January.

cid:image003.png@01CD0697.67FA07C0

22

We have increased our CSO1 from being net short in JAN to net long in MAR and reduced our total book Notionals by 14 Bln . This has resulted in an increase in the books RWA due to capital charge called IRC of 18 Bln in RWA . This should be seen as the extra long that the book currently has as compared with what the model would consider neutral . The fact that the increase that we have seen in the book has not materialized in our performance has raised the following issues:

- 1. Our current underperformance in the Synthetic Book is large compared to our estimates given the changes in the profile of the book.
- 2. The increase in transparency with QR and now with Risk Management regarding the optimatization is highlighting the positions that we have and also revealed that our optimatization benefit is increasing the RWA cost to the IB and increased their speed to reduce the CRM by externalizing it with a counterparty or to reduce the books offsetting trades.

...e dilemma that we face at the moment is that we are improving our RWA position vs the IB but the trades that we made from the beginning of the year are upsetting this balance with our IB (and others) because as they have been eager to take

the opposite side of our trades this was due to a more bearish view and also the benefit that that opposite position would have for their capital. The IB now is becoming aware of this as the numbers where released on Monday and therefore their reaction in the market.

My conclusion here is that we need to keep our current positioning that is slighly increasing the long in IG and then correct the RWA next quarter either by reducing the IRC by selling our extra long IG or get the CRM charge reduced by joining the IB and reduce the exposure with a third party.

ards

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~			pre-split	. post-split
RWA	4Q 2011	Jan 2012	22 Feb 2012	7 Mar 2012
VaR	4,774	4,435	2,372	2,372
Stress VaR	13,168	11,898	8,812	8,812
CRM	Actuoi	Actual	Estimate	Estimate
CRM standalone	26,395	31,100	78,763	15,600
CRM div. factor	31%	29%	29%	5%
CRM diversification	-8,122	-9,093	-22,841	-780
Net CRM	18,274	22,007	55,921	14,820
IRC			0	18,750
TOTAL Tranche RWA	36,215	38,340	67,105	44,754
		~		

From: Drew, Ina <Ina.Drew@jpmorgan.com>
Sent: Thu, 22 Mar 2012 17:48:11 GMT

To: Macris, Achilles O <achilles.o.macris@jpmorgan.com>; Martin-Artajo, Javier X <javier.x.martin-artajo@jpmorgan.com>
Subject: I was confused by the incerased position noted today after

Yesterday's exhaustive meeting.

March 23, 2012 call #5722876946602392261 (2).txt 1 HIGHLY CONFIDENTIAL ____X Transcription of Recorded Telephone Conversations 7 8 10 11 12 13 CALL NUMBER: PARTICIPANTS 5722876946602392261 ARTAJO-STEPHAN 15 16 17 18 19 20 21 22 23 24 25

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Page 1

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March	23, 2012			
		1	Call #5722876946602392261 HIGHLY CONFIDENTIAL	(2).txt
	18:13:56	2	MR. ARTAJO: JPMorgan.	
	18:13:57	3	KEITH: Hello, Javier, it's	
	18:13:59	4	Keith, how are you.	
٠	18:14:00	5	MR. ARTAJO: Hey, Keith, man.	
	18:14:02	6	Having a lot of headaches here.	
	18:14:04	7	KEITH: I cannot wait to come	•
	18:14:05	8	back to London. I can't tell you	•
	18:14:07	9	how much fun it is, like, in the	
	18:14:09	10	amount of time I have spent	
	18:14:10	11	discussing with Pete and Irv, and I	
	18:14:13	12	sometimes just feel like a broken	
	18:14:15	13	record, like, you know, especially	
	18:14:17	14	and I'm trying to, to be, you	
	18:14:20	15 .	know, as thorough and as patient as	
	18:14:22	16	I can be. But, you know, I'm just	
	18:14:25	17	getting strange requests, like, can	
	18:14:26	18	you walk me through this, can you	
	18:14:28	19	walk me through that? I mean I've	
	18:14:30	20	been through the book before with	
	18:14:32	21	Pete as you're aware. I talk to	
	18:14:34	22	him every day about it. So I have	
	18:14:36	23	some patience to take Irv through	
	18:14:38	24	it. But it seems like there's a	
	_♀ 18:14:40	25	breakdown in the link of	
	,			
	•		a	i
		1	HIGHLY CONFIDENTIAL	
	18:14:41	2	communication here because I was	
	18:14:42	3	under the impression that everybody	
	18:14:43	. 4	was very clear that what that what	
٠.,			Page 2	•

March 23, 2012

arch 23,	2012		
		, (Call #5722876946602392261 (2).txt
	18:14:45	5	we were doing was adding another 20
	18:14:47	6	to 25 million of risk in one sense
	18:14:49	7 ·	- -
	18:14:50	8	MR. ARTAJO: No, no.
	18:14:51	9	KEITH: Now it seems like
	18:14:52	10	everybody says, no, we didn't know
	18:14:53	11	what we were doing.
	18:14:54	12	MR. ARTAJO: I spoke with Ina.
	18:14:56	13	The reason I told her, the reason
	18:14:57	14	I'm doing that is to defend the
	18:14:59	15	position, okay. We cannot do that.
	18:15:01	16	I just with didn't want the
•	18:15:03	17	investment bank to rollover us.
	18:15:04	18	This is increase the book by 25 or
٠	18:15:08	19	26 billion of IWA which is freaking
	18:15:10	20-	them out. I said, look, you know,
	18:15:12	21	relax. I just don't want I
	18:15:14	22	needed to do this in order to
	18:15:15	23	settle with them, okay. Okay. So
	18:15:17	24	when this is going all the way up,
	18:15:19	25	man, just for you to know. And I
	+		
			4
	*		
		1	HIGHLY CONFIDENTIAL
	18:15:22	2	we have raised this issue and he's
	18:15:24	3	going to talk to Hogan and he's
	18:15:26	.4	going to talk to Danielle Pinto and
	18:15:28	5	he's going to talk to the America,
	18:15:30	6	okay. So we escalating the problem

Page 3

18:15:32 7 here all the way up. The issue

March 23, 2012		
18:15:34 8	Call #5722876946602392261 here is that the investment bank is	(2).txt
18:15:35 9	manipulating the prices. They want	
18:15:37 10	us out of you know how valuable	
18:15:40 11	the IG9 position is, right.	
18:15:42 12	KEITH: I don't.	
18:15:43 13	MR. ARTAJO: And we have a lot	
18:15:44 14	of it. It is almost they trying to	,
18:15:46 15	squeeze us out. I have evidence	
18:15:48 16	they trying to squeeze us from a	
18:15:49 17	loft different point of views	
18:15:51 18	because we get the marks, we get	
18:15:53 19	the shit, Bruno saying he's getting	
18:15:55 20	very rattled. We have a good	
18:15:57 21	position. It's not performing and	
18:15:58 22	we are getting paranoid here. At	
18:16:00 23	the same time, I didn't want them	
18:16:02 24	to squeeze us out of the trade. I	
18:16:04 25 ¥	said, okay, man, I don't mind if we	
	5	
1	HIGHLY CONFIDENTIAL	
18:16:06 2	get a little high on our IWA. I	
18:16:09	get long on IG. This defense, the	
· ·		

decompression trade. It puts a

little bit of pressure on them

because we are going to have to

have to settle these differences

here. You know, whether or not we

do a trade or not. This is out of $$\operatorname{\mathsf{my}}$$ control or out of control now. Page 4

settle this now, okay. We going to

18:16:11 4

18:16:13 5

18:16:14 6

18:16:16 7

18:16:17 8

18:16:18 9

18:16:20 10

18:16:22 11

March 23, 2012

3, 2012			
	Ca	17] #5722876946602392261	(2) txt
18:16:24	12	This is Ina. Ina has to decide	
18:16:27	L3	this with, with Jess.	
18:16:30	14	KEITH: Jess.	÷
. 18:16:31	15	MR. ARTAJO: With Jess Staley	
18:16:32	16	basically. Otherwise it going to	
18:16:34	17	be a shit show. These guys are	
18:16:35	18	putting things on the street. It	
18:16:36	19	is a fight between JPMorgan and	
18:16:38	20	JPMorgan and the street. This is a	
18:16:39	21	stupid thing, okay. So, you know,	
18:16:41	22	the problem that we have is that	
18:16:43	23	we've been trying to optimize our	
18:16:44	24	book. We didn't know how it works.	
្ម 18:16:46 រិ	25	So obviously we made mistakes.	

6

HIGHLY CONFIDENTIAL 18:16:48 2 We've made mistakes because we, we 18:16:50 3 think there is reward. We think like okay this is good for me, this 18:16:52 4 18:16:54 5 is a good trade, so we put a book that has long carry and has got 18:16:56 6 good defaults. It is a very good 18:16:58 7 book. You ask Bruno what he really 18:17:00 8 18:17:02 9 thinks. He thinks he hasn't made a mistake. Maybe a little slow in 18:17:05 10 18:17:06 11 covering the short we have in 18:17:08 12 investment grade, okay. So we 18:17:09 13 haven't really stepped on shit 18:17:10 14 really other than having a little Page 5

Draft Transcript - Subject to Review and Correction Likely Contains Errors

Confidential Treatment Requested by JPMORGAN CHASE & CO.

March 23, 2012	
18:17:12 15	Call #5722876946602392261 (2).txt bit of unfortunate defaults on
18:17:14 16	Kodak. But, you know, it's fine
18:19:32 17	that the book is down for some
18:19:33 18	reason. But, you know, it is good
18:19:35 19	for our file and we like the book.
18:19:37 20	So this is what I told Ina. The
18:19:39 21	investment bank for some reason
18:19:40 22	they are incredibly sensitive to
18:19:41 23	the position that we have, okay.
18:19:48 24	The investment grade. I don't know
18:19:49 25	why that is. Bruno thinks that
τ.	
	7
1 · 1 · ·	HIGHLY CONFIDENTIAL
18:19:54 2	because of the size of the book
18:19:55 3	they have; it's a very flat book
18:19:57 4	but it has huge notionals, okay.
18:19:59 5	And apparently what I'm hearing is
18:20:01 6	that the book is very sensitive to
18:20:03 7	this thing in their own, in their
18:20:04 8	own behavior, okay.
18:20:06 9	KEITH: I think it's I

think, and you and I discussed this

briefly before I left on Tuesday, I

think that's a function of the fact

that if you look at what that thing does as sort of the on the run

correlation series, it remains the

thing that looks like the cheapest

instrumentation to hedge your sort

Page 6

of single name exposure in the

18:20:08 10

18:20:09 11

18:20:11 12 18:20:11 13

18:20:14 14 18:20:16 15

18:20:17 16

18:20:19 17

18:20:21 18

March 23, 2012		
	Call #5722876946602392261 ((2).txt
18:20:24 19	ratings and all the rest. So	
18:20:25 20	there's a perpetual bid to kind of	
18:20:27 21	continue to just, you know, lift	
18:20:29 22	protection on IG9 ten year and at	
18:20:32 23	the same time they end up the other	
18:20:33 24	way around I think. Because what	
18;20:35 25 ¥	you do is sell protection on the	
	8	
1	HIGHLY CONFIDENTIAL	
18:20:36 2	other.	
18:20:37 3	MR. ARTAJO: That's right. So	
18:20:38 4	they end up with having a mirror	
18:20:40 5	position with ours, right.	
18:20:42 6	KEITH: Compression trade	
18:20:43 7	basically.	
18:20:43 8	MR. ARTAJO: So basically we	
18:20:44 9	are fighting the idea. They are	
18:20:46 10	doing that. Now they are fighting	
18:20:48 11	with two things. One is actually	
18:20:49 12	by trying to source the risk. But	
18:20:51 13	we are not trading a lot of volume,	
18:20:52 14	okay. The whole problem that I	
18:20:55 15	have with this, and the whole	
18:20:56 16	problem I have with Bruno is if	
18:20:58 17	they were trading size on the other	
18:20:59 18	side I feel, shit, we've got a bad	
18:21:01 19	position, okay. So, fuck, you	
18:21:04 20	know, they really want it. But	
18:21:05 21	they are not trading volume. They	,

Page 7

March 23, 2012	
18:21:07 22	Call #5722876946602392261 (2).txt had just volume us. They are just
18:21:09 23	giving us bad marks. So they are
18:21:11 24	not getting it's not that they
18:21:13 25	are giving us headache and the
* * * * * * * * * * * * * * * * * * * *	
	9
1	HIGHLY CONFIDENTIAL
18:21:15 2	market is moving and you trade and
18:21:16 3	the opposition increases and gets
18:21:18 4	worse. Opposition increases
18:21:20 5	because we trade with them but we
18:21:21 6	don't trade size. There is no
18:21:23 7	volume, okay. So this this is
18:21:24 8	purely their trading, this month
18:21:26 9	end. They are worried about this.
18:21:28 10	They must have something in the
18:21:29 11	book that is obviously not working
18:21:31 12	because otherwise I don't see the
18:21:32 13	investment bank reacting this way.
18:21:34 14	I haven't seen them react this way,
18:21:36 15	okay? But it is very obvious they
18:21:39 16	are targeting us. They have a lot
18:21:40 17	of information about what we do.
18:21:41 18	They have our positions. They
18:21:43 19	really are targeting us. We had
18:21:46 20	too many dialogues here. I've had
18:21:47 21	too many dialogues with
18:21:50 22	(INAUDIBLE), too many dialogues
18:21:51 23	with the America (INAUDIBLE) has
18:21:55 24	too many dialogues there too. Ina

has mentioned this. To be honest Page 8

18:21:56 25

Call #5722876946602392261

(2).txt

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	1	HIGHLY CONFIDENTIAL
18:21:58	2	with you, this, they know that we
18:22:00	3	are sensitive to this. They know,
18:22:01	4	they know, they know very well now.
18:22:03	5	So they are manipulating the market
18:22:06	6	and we have to stop it. Because
18:22:08	7	now it is coming to me from the
18:22:09	8	market. The market is asking us
18:22:10	9	what the fuck are we doing. We
18:22:12	10	have a large position. And that's
18:22:14	11	last thing you want. Then you need
18:22:16	12	to stop that. I told Peter, this
18:22:18	13	is all the way up. It might go to
18:22:19	14	Jamie Dimon then.
18:22:21	15	KEITH: Just to, just to add
18:22:23	16	like a little bit more color and
18:22:24	17	this is like a random anecdotal
18:22:26	18	thing. But some like junior
18:22:28	19	fucking kid called Ari Wechsman who
18:22:31	20	works in credit.
18:22:33	21	MR. ARTAJO: What?
18:22:33	22	KEITH: There's a junior kid
18:22:35	23	who works in market risk for
18:22:37	24	credit, credit markets who
18:22:38	25	apparently was calling the market

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		1	Call #5722876946602392261 HIGHLY CONFIDENTIAL	(2) .txt
	18:22:40	2	risk guys in CIO in New York	
	18:22:42	. 3	saying, hey, we've had like two	
	18:22:43	4	standard deviation distortion in	
	18:22:45	. 5	this main verse cross over	
	18:22:47	6	decompression and apparently it's	
	18:22:49	7	all because of a big prop trader	
	18:22:51	8	called Bruno in CIO. That's just	
	18:22:54	9	for you to know, right. So	
	18:22:56	10	MR. ARTAJO: That is nasty,	
	18:22:58	11	man, that is nasty.	
	18:22:59	12	KEITH: What that means is that	
. *	18:23:00	13	the traders in credit flow are	
	18:23:02	14	telling that to their risk guys and	
	18:23:03	15	just spreading sheet.	
	18:23:04	16	MR. ARTAJO: That's right. But	
	18:23:05	17	we need to stop that.	
	18:23:06	18	KEITH: I don't know how to get	. 2
	18:23:07	19	in front of it. I don't know. I	
	18:23:09	20	mean the only thing we can do is	
	18:23:10	21	what you're suggesting now, which	
	18:23:11	22	is Ina has to have that	
	18:23:13	23	conversation with Jess and someone	
	18:23:14	24	has to say knock it the fuck off	
	18:23:15 ²	25	because we look like idiots in the	
4			1	2
er e		1	HIGHLY CONFIDENTIAL	
	18:23:17	2.	street.	
	18:23:17	3	MR. ARTAJO: That's right. We	
	18:23:18	4	need to stop this exactly.	

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March 23, 2012

	c	all #5722876946602392261	(2).txt
18:23:21	5	KEITH: I'm telling you, this	
18:23:22	6	is like associate level market risk	
18:23:24	7	kid who doesn't even know what the	
18:23:26	. 8	word decompression means. Can you	
18:23:28	9	tell it's not his words.	
18:23:30	10	MR. ARTAJO: We need to stop	
18:23:31	11	this. We need to stop this shit	
18:23:32	12	internally. We need to stop that.	
18:23:34	13	I mean listen we have issues here	
18:23:36	14	too. I'm not saying, I'm not	
18:23:38	15	telling you honestly that we are	
18:23:40	16	the pretty boys and everybody else	
18:23:42	17	is, is ugly. We have an issue here	
18:23:46	18	that, you know, I'm using too big	
18:23:49	19	IWA. But this is known by, by the,	
18:23:55	20	it's a known weakness. They are	
18:23:56	21	using that, they are exploiting us.	
18:23:58	22	They think they can take us out.	
18:24:00	23	That's what they really think with	
18:24:02	24	no capital. And this is what we	
18:24:05	25	what needs to stop.	
τ			
		1	.3

	1	HIGHLY CONFIDENTIAL
18:24:07	2	KEITH: All right.
18:24:08	3	MR. ARTAJO: Irv is calling my
18:24:10	4	I'll call you back.
18:24:11	5	KEITH: All I did is a graph
18:24:13	6	with the notionals and I sent it to
18:24:14	7	you and I sent it to Irv. I'll

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March 23, 2012 Call #5722876946602392261 talk to you later. Bye. (2).txt 18:24:16 8

Page 12

Reducted by the Permanent Subcommittee on Investigation

From: Sent:

BRUNO IKSIL <BIKSIL2@

Fri, 23 Mar 2012 14:56:42 GMT

BRUNO IKSIL <BIKSIL2@ JAVIER MARTIN-ARTAJO <JMARTAJO@

; BRUNO IKSIL <bruno.m.iksil@jpmorgan.com>;

Subject:

03/23/2012 05:37:08 BRUNO IKSIL, JPMORGAN CHASE BANK, has joined the room 03/23/2012 05:37:08 BRUNO IKSIL, JPMORGAN CHASE BANK, says:

*** JPMORGAN CHASE BANK, (748320) Disclaimer: THIS IS FOR INFORMATION ONLY, NOT AN OFFER OR SOLICITATION FOR THE PURCHASE OR SALE OF ANY FINANCIAL INSTRUMENT, NOR AN OFFICIAL CONFIRMATION OF TERMS. THE INFORMATION IS BELIEVED TO BE RELIABLE, BUT WE DO NOT WARRANT ITS COMPLETENESS OR ACCURACY. PRICES AND AVAILABILITY ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGE WITHOUT NOTICE. WE MAY HOLD A POSITION OR ACT AS A MARKET MAKER IN ANY FINANCIAL INSTRUMENT DISCUSSED HEREIN. CLIENTS SHOULD CONSULT THEIR OWN ADVISORS REGARDING ANY TAX, ACCOUNTING OR LEGAL ASPECTS OF THIS INFORMATION AND EXECUTE TRANSACTIONS THROUGH A J.P. MORGAN ENTITY IN THEIR HOME JURISDICTION UNLESS GOVERNING I AW PERMITS OTHERWISE. GOVERNING LAW PERMITS OTHERWISE.

03/23/2012 05:37:11 BRUNO IKSIL, JPMORGAN CHASE BANK, says:

03/23/2012 05:37:11 JAVIER MARTIN-ARTAJO, MORGAN (J.P.) has joined the room 03/23/2012 05:37:12 JAVIER MARTIN-ARTAJO, MORGAN (J.P.) says:

*** MORGAN (J.P.) (20833) Disclaimer: THIS IS FOR INFORMATION ONLY AND NOT THE PRODUCT OF JPMORGAN 'S RESEARCH DEPT.IT IS INTENDED FOR THE RECIPIENT ONLY.IT IS NOT AN OFFER OR JLICITATION FOR PURCHASE OR SALE OF ANY FINANCIAL PRODUCT AND NOT SUITABLE FOR PRIVATE JSTOMERS, PRICES ARE INDICATIVE ONLY.WE MAY HOLD A Ä"POSITION OR ACT AS MARKET MAKER IN ANY FINANCIAL PRODUCT DISCUSSED ABOVE. CLIENTS SHOULD CONSULT THEIR ADVISORS ON TAX,ACCOUNTING, LEGAL OR OTHER ISSUES ARISING AND EXECUTE TRADES THROUGH A JPM ENTITY IN THEIR HOME JURISDICTION UNLESS GOVERNING LAW PERMITS OTHERWISE. FOR A INFORMATION ABOUT JPM UK ENTITIES REFER TO Ä" www.jpmorgan.com/pages/disclosures 2009 JPMORGAN CHASE & CO. JPMSL IS AUTHORISED AND REGULATED BY THE FSA.

 $03/23/2012\ 05{:}38{:}17$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: the main is pushed back up xover does not move

03/23/2012 05:38:28 BRUNO IKSIL, JPMORGAN CHASE BANK, says: eurostoxx was at the same level yesterday

03/23/2012 05:38:40 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Ade tries to contact you for some colour on IB

03/23/2012 05:39:06 BRUNO IKSIL, JPMORGAN CHASE BANK, says: the var increase went a lot from tactical because they picked the wrong equity delta

03/23/2012 05:39:20 BRUNO IKSIL, JPMORGAN CHASE BANK, says: i sold a little more protection in main for tactical

03/23/2012 05:39:28 BRUNO IKSIL, JPMORGAN CHASE BANK, says: i am done for the whole book now

/23/2012 05:39:39 BRUNO IKSIL, JPMORGAN CHASE BANK, says: i sent u a couple of emails

/23/2012 05:39:59 BRUNO IKSIL, JPMORGAN CHASE BANK, says: they push also the series 9 main wider than market

 $03/23/2012\ 05:40:11$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: so we will lose more today

03/23/2012 05:40:12 BRUNO IKSIL, JPMORGAN CHASE BANK, says: for sure

 $03/23/2012\ 05:40:21$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: andf this is going to happen across the book

03/23/2012 05:40:31 BRUNO IKSIL, JPMORGAN CHASE BANK, says: they will also fram the hy indices and tranches against us

 $03/23/2012\ 05:40:35$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: this will be aggressive

 $03/23/2012\ 05:41:41$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: main ahs widened 2.5 bps

 $03/23/2012\ 05:41:47$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: nothing else moved

^3/23/2012 05:41:54 BRUNO IKSIL, JPMORGAN CHASE BANK, says: m yesterday

03/23/2012 05:53:24 BRUNO IKSIL, JPMORGAN CHASE BANK, says: I reckon we have today a loss of 300M USING THE BEST BID ASKS

03/23/2012 05:53:40 BRUNO IKSIL, JPMORGAN CHASE BANK, says: and approx 600m from mids

03/23/2012 05:53:46 BRUNO IKSIL, JPMORGAN CHASE BANK, says: i see it coming

 $03/23/2012\ 06:07:34$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: I will stop trading at all now

03/23/2012 06:07:53 BRUNO IKSIL, JPMORGAN CHASE BANK, says: I do not need to unless removing the long risk in 0-3 10yr S9 and IG9

 $03/23/2012\ 07:54:01$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: do you need any material to be prepared for today's meeting?

03/23/2012 10:56:23 BRUNO IKSIL, JPMORGAN CHASE BANK, says: I was on the call

03/23/2012 10:56:42 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
 ¬asked Pat and Samir to provide marginals to see what I can do to reduce the var and rwa

From:

JULIEN GROUT < JGROUT3@

Sent: To: Fri, 23 Mar 2012 18:37:47 GMT

JULIEN GROUT <JGROUT3@I BRUNO IKSIL <BIKSIL2@

Redacted by the Permanent Subcommittee on Investigation

; JULIEN GROUT <julien.g.grout@jpmchase.com>; BRUNO IKSIL <bruno.m.iksil@jpmorgan.com>

Subject:

03/23/2012 05:45:49 JULIEN GROUT, JPMORGAN CHASE BANK, has joined the room 03/23/2012 05:45:50 JULIEN GROUT, JPMORGAN CHASE BANK, says:

*** JPMORGAN CHASE BANK, (741671) Disclaimer: THIS IS FOR INFORMATION ONLY, NOT AN OFFER OR SOLICITATION FOR THE PURCHASE OR SALE OF ANY FINANCIAL INSTRUMENT, NOR AN OFFICIAL CONFIRMATION OF TERMS. THE INFORMATION IS BELIEVED TO BE RELIABLE, BUT WE DO NOT WARRANT ITS COMPLETENESS OR ACCURACY. PRICES AND AVAILABILITY ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGE WITHOUT NOTICE. WE MAY HOLD A POSITION OR ACT AS A MARKET MAKER IN ANY FINANCIAL INSTRUMENT DISCUSSED HEREIN. CLIENTS SHOULD CONSULT THEIR OWN ADVISORS REGARDING ANY TAX, ACCOUNTING OR LEGAL ASPECTS OF THIS INFORMATION AND EXECUTE TRANSACTIONS THROUGH A J.P. MORGAN ENTITY IN THEIR HOME JURISDICTION UNLESS GOVERNING LAW PERMITS OTHERWISE.

03/23/2012 05:45:54 JULIEN GROUT, JPMORGAN CHASE BANK, says:

03/23/2012 05:45:54 BRUNO IKSIL, JPMORGAN CHASE BANK, has joined the room 03/23/2012 05:45:54 BRUNO IKSIL, JPMORGAN CHASE BANK, says:

**** JPMORGAN CHASE BANK, (748320) Disclaimer: THIS IS FOR INFORMATION ONLY, NOT AN OFFER OR SOLICITATION FOR THE PURCHASE OR SALE OF ANY FINANCIAL INSTRUMENT, NOR AN OFFICIAL ONFIRMATION OF TERMS. THE INFORMATION IS BELIEVED TO BE RELIABLE, BUT WE DO NOT WARRANT ITS COMPLETENESS OR ACCURACY. PRICES AND AVAILABILITY ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGE WITHOUT NOTICE. WE MAY HOLD A POSITION OR ACT AS A MARKET MAKER IN ANY FINANCIAL INSTRUMENT DISCUSSED HEREIN. CLIENTS SHOULD CONSULT THEIR OWN ADVISORS REGARDING ANY TAX, ACCOUNTING OR LEGAL ASPECTS OF THIS INFORMATION AND EXECUTE TRANSACTIONS THROUGH A J.P. MORGAN ENTITY IN THEIR HOME JURISDICTION UNLESS GOVERNING LAW PERMITS OTHERWISS.

03/23/2012 05:45:59 BRUNO IKSIL, JPMORGAN CHASE BANK, says: salut

03/23/2012 05:46:01 JULIEN GROUT, JPMORGAN CHASE BANK, says: salut

03/23/2012 05:46:03 BRUNO IKSIL, JPMORGAN CHASE BANK, says: c mort la $\,$

03/23/2012 05:46:28 JULIEN GROUT, JPMORGAN CHASE BANK, says: david de CS appoelle au sujet des skew trades. je lui demande un prix ferme sur indice vs single names?

 $03/23/2012\ 05{:}46{:}32\ JULIEN\ GROUT,\ JPMORGAN\ CHASE\ BANK,\ says: coupons matched etc$

03/23/2012 05:46:33 JULIEN GROUT, JPMORGAN CHASE BANK, says: ?

 $3/23/2012\ 05{:}46{:}42$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: oui

Confidential Treatment Requested by JPMORGAN CHASE & CO.

- 03/23/2012 05:46:46 BRUNO IKSIL, JPMORGAN CHASE BANK, says: c un full upfront
- _3/23/2012 05:46:54 JULIEN GROUT, JPMORGAN CHASE BANK, says: ok understood
- $03/23/2012\ 05:48:11\ \mbox{JULIEN}$ GROUT, JPMORGAN CHASE BANK, says: pour revenir a ton premier point
- $03/23/2012\ 05;48;14$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: continue a vendre la ss
- $03/23/2012\ 05:48:25$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: leve la $0\text{-}3^\circ10\text{yr}$
- 03/23/2012 05:48:28 JULIEN GROUT, JPMORGAN CHASE BANK, says: on en discutera lundi si tu veux bien,
- 03/23/2012 05:48:32 JULIEN GROUT, JPMORGAN CHASE BANK, says: ok ok je continue ca
- 03/23/2012 05:48:38 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
- $03/23/2012\ 05{:}48{:}48$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: je te dis
- 03/23/2012 05:48:52 BRUNO IKSIL, JPMORGAN CHASE BANK, says: ; vont nous defoncer
- 03/23/2012 05:48:56 JULIEN GROUT, JPMORGAN CHASE BANK, says: y a bcp a dire, mais je ne veux pas charger ta charette qui est deja bien remplie
- $03/23/2012\ 05:52:28$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: c soir tu as au moins 600m
- $03/23/2012\ 05{:}52{:}36$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: BID ASK
- 03/23/2012 05:52:40 BRUNO IKSIL, JPMORGAN CHASE BANK, says: MID
- 03/23/2012 05:52:51 BRUNO IKSIL, JPMORGAN CHASE BANK, says: BID ASK TU AS 300M AU MOINS
- $03/23/2012\ 05:54:46\ JULIEN\ GROUT,\ JPMORGAN\ CHASE\ BANK,\ says:$ tu as vu le run de jospehine.. attack full force.
- 03/23/2012 05:57:56 BRUNO IKSIL, JPMORGAN CHASE BANK, says: oui
- 03/23/2012 05:57:59 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
- $\ensuremath{\mathrm{3/23/2012}}$ 05:58:04 BRUNO IKSIL, JPMORGAN CHASE BANK, says: on est mort je te dis

- 03/23/2012 05:58:19 BRUNO IKSIL, JPMORGAN CHASE BANK, says: mais bon c hors de mon controel maintenant
- ${\it J3/23/2012}$ 05:58:27 BRUNO IKSIL, JPMORGAN CHASE BANK, says: j'ai fait ce qu'il fallait
- $03/23/2012\ 06;04;04$ JULIEN GROUT, JPMORGAN CHASE BANK, says: ok
- $03/23/2012\ 06{:}18{:}11\ \mathrm{JULIEN}$ GROUT, JPMORGAN CHASE BANK, says: oula bnp...
- $03/23/2012\ 07{:}27{:}02\ \mathsf{JULIEN}$ GROUT, JPMORGAN CHASE BANK, says: bruno/
- 03/23/2012 07:30:46 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
- 03/23/2012 07:31:38 JULIEN GROUT, JPMORGAN CHASE BANK, says: l'arret du trading c nous 3 ou juste moi?
- 03/23/2012 07:31:49 BRUNO IKSIL, JPMORGAN CHASE BANK, says: toi
- 03/23/2012 07:31:52 BRUNO IKSIL, JPMORGAN CHASE BANK, says: sur core
- 03/23/2012 07:31:52 JULIEN GROUT, JPMORGAN CHASE BANK, says:
- $03/23/2012\ 07{:}32{:}05$ JULIEN GROUT, JPMORGAN CHASE BANK, says: eric/luis ils peuvent continuer, sur leur tactical
- 03/23/2012 07:32:06 BRUNO IKSIL, JPMORGAN CHASE BANK, says: continue sur la ss les 0-3 1 $\tilde{\rm A}$ yr
- 03/23/2012 07:32:07 JULIEN GROUT, JPMORGAN CHASE BANK, says: ok?
- 03/23/2012 07:32:11 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
- 03/23/2012 07:32:27 BRUNO IKSIL, JPMORGAN CHASE BANK, says: continue sur les 25-35 HY $\,$
- 03/23/2012 07:32:32 BRUNO IKSIL, JPMORGAN CHASE BANK, says: pas les 15-25
- 03/23/2012 07:32:53 JULIEN GROUT, JPMORGAN CHASE BANK, says: ok
- 03/23/2012 07:33:02 JULIEN GROUT, JPMORGAN CHASE BANK, says: tu pourras me donner la couleur stp? s'il y en a.
- $3/23/2012\ 07{:}33{:}17\ \textsc{BRUNO}\ \textsc{IKSIL},\ \ensuremath{\text{JPMORGAN}}\ \textsc{CHASE}\ \textsc{BANK},\ \textsc{says}:$ rien poour le moment

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03/23/2012 07:33:20 JULIEN GROUT, JPMORGAN CHASE BANK, says: ok

J3/23/2012 07:33:28 BRUNO IKSIL, JPMORGAN CHASE BANK, says: ca va se negocier avec l'IB

03/23/2012 07:33:34 BRUNO IKSIL, JPMORGAN CHASE BANK, says:

 $03/23/2012\ 07:33:41\ BRUNO\ IKSIL,\ JPMORGAN\ CHASE\ BANK,\ says:$ et je vais en prendre pour mon grade

03/23/2012 07:33:44 JULIEN GROUT, JPMORGAN CHASE BANK, says: today?

03/23/2012 07:33:49 BRUNO IKSIL, JPMORGAN CHASE BANK, says: mais bon on a du carry

03/23/2012 07:33:51 JULIEN GROUT, JPMORGAN CHASE BANK, says: ah? cela t'a ete confirme/

03/23/2012 07:34:03 BRUNO IKSIL, JPMORGAN CHASE BANK, says: c pas necessaire

 $03/23/2012\ 07{:}34{:}20$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: tu ne perds pas 500M sans conseuqences

 $^{03}/^{23}/^{2012}$ 07:34:30 BRUNO IKSIL, JPMORGAN CHASE BANK, says: arde le pour toi

 $03/23/2012\ 07{:}34{:}39\ \mathrm{JULIEN}\ \mathrm{GROUT},\ \mathrm{JPMORGAN}\ \mathrm{CHASE}\ \mathrm{BANK},\ \mathrm{says:}$ oh oui

03/23/2012 07:34:52 BRUNO IKSIL, JPMORGAN CHASE BANK, says: c le bon sens qui me dit ca

03/23/2012 07:46:55 JULIEN GROUT, JPMORGAN CHASE BANK, says: tua as parle a august? sinon, je lui dis de nous montrer le skew trade (sous le bon format)?

03/23/2012 07:47:29 BRUNO IKSIL, JPMORGAN CHASE BANK, says:

03/23/2012 07:47:35 JULIEN GROUT, JPMORGAN CHASE BANK, says: ok

 $03/23/2012\ 07:47:38$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: essaie de collecter des prix fermes

03/23/2012 07:47:45 BRUNO IKSIL, JPMORGAN CHASE BANK, says: je n'ai rien vu de ferme pour le moment

03/23/2012 07:48:15 JULIEN GROUT, JPMORGAN CHASE BANK, says: ok

.3/23/2012 07:56:47 JULIEN GROUT, JPMORGAN CHASE BANK, says: Bruno? tu as besoin de qqcho/

03/23/2012 08:13:16 JULIEN GROUT, JPMORGAN CHASE BANK, says: bon bruno

u3/23/2012 08:13:26 JULIEN GROUT, JPMORGAN CHASE BANK, says: javier est reparti dans un conf call avec A

03/23/2012 08:13:32 JULIEN GROUT, JPMORGAN CHASE BANK, says: je n'ai pas pu lui parler

03/23/2012 08:14:05 BRUNO IKSIL, JPMORGAN CHASE BANK, says: ok

03/23/2012 08:14:24 JULIEN GROUT, JPMORGAN CHASE BANK, says: mais bon il n'avait pas l'ai concerne par des slidse.. plutot autre chose

 $03/23/2012\ 08:14:35\ \text{JULIEN GROUT, JPMORGAN CHASE BANK, says:}$ je vais chercher le dej et je reviens

03/23/2012 08:26:17 BRUNO IKSIL, JPMORGAN CHASE BANK, says: tu es la?

03/23/2012 08:31:42 BRUNO IKSIL, JPMORGAN CHASE BANK, says: urgent

03/23/2012 08:33:49 JULIEN GROUT, JPMORGAN CHASE BANK, says:

^3/23/2012 08:59:30 BRUNO IKSIL, JPMORGAN CHASE BANK, says: garde ton email

03/23/2012 09:00:02 BRUNO IKSIL, JPMORGAN CHASE BANK, says: essaye de retrouver les run de roman shukhman sur ig9 pour montrer qu'ils sont plus steep et mettent le ig9 10yr plus que le marche

03/23/2012 09:01:36 JULIEN GROUT, JPMORGAN CHASE BANK, says: brung

 $03/23/2012\ 09:02:07$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: essaie de retrouver les chat sur les chat de jp ou ils nou sniffent

03/23/2012 09:02:13 JULIEN GROUT, JPMORGAN CHASE BANK, says: tu te rappelles 1; histoire de debut d'annee avec Sylvain sur le roll $\mathfrak s9$ 5y?

03/23/2012 09:02:20 BRUNO IKSIL, JPMORGAN CHASE BANK, says: non

 $03/23/2012\ 09:02:26$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: c'etait koi deja?

03/23/2012 09:02:41 JULIEN GROUT, JPMORGAN CHASE BANK, says: j'avais checke sylvain, et fait une gross taille de roll s9 5y

03/23/2012 09:02:51 JULIEN GROUT, JPMORGAN CHASE BANK, says: eux de temps apres il me dit que jpm le lift dessus

03/23/2012 09:02:56 BRUNO IKSIL, JPMORGAN CHASE BANK, says: ah oui

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- 03/23/2012 09:03:04 BRUNO IKSIL, JPMORGAN CHASE BANK, says: faut le retrouver celui la
- $03/23/2012\ 09{:}03{:}13\ \rm JULIEN\ GROUT,\ JPMORGAN\ CHASE\ BANK,\ says:\ je 'ai,\ en\ francais\ malheureusement$
- 03/23/2012 09:03:21 BRUNO IKSIL, JPMORGAN CHASE BANK, says: c pas grave envoie
- 03/23/2012 09:03:31 JULIEN GROUT, JPMORGAN CHASE BANK, says: en rrecanche peux tu me rappeler ce que tu avais trade/booke?
- 03/23/2012 09:03:33 BRUNO IKSIL, JPMORGAN CHASE BANK, says: achilles comprend tres bien le français
- 03/23/2012 09:03:42 BRUNO IKSIL, JPMORGAN CHASE BANK, says: cad?
- 03/23/2012 09:03:48 JULIEN GROUT, JPMORGAN CHASE BANK, says: je veux le timing exact
- 03/23/2012 09:03:56 BRUNO IKSIL, JPMORGAN CHASE BANK, says: de quoi?
- 03/23/2012 09:04:03 JULIEN GROUT, JPMORGAN CHASE BANK, says: ben des evenements
- 3/23/201209:04:16 JULIEN GROUT, JPMORGAN CHASE BANK, says: parce que si tu as deja traite du roll avant moi la dessus
- $03/23/2012\ 09:04:20\ \mbox{JULIEN}$ GROUT, JPMORGAN CHASE BANK, says: ca sera encore plus limpide
- 03/23/2012 09:04:23 JULIEN GROUT, JPMORGAN CHASE BANK, says:
- 03/23/2012 09:04:32 BRUNO IKSIL, JPMORGAN CHASE BANK, says: je ne me souviens plus
- 03/23/2012 09:04:39 JULIEN GROUT, JPMORGAN CHASE BANK, says: ok je regarde le blotter
- $03/23/2012\ 09;04:41$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: c quel jour?
- 03/23/2012 09:05:27 JULIEN GROUT, JPMORGAN CHASE BANK, says: ah ui! tu as traite 250m de roll s9 avec db a 7h55!!
- 03/23/2012 09:05:29 JULIEN GROUT, JPMORGAN CHASE BANK, says: le 4-jan
- 03/23/2012 09:06:11 BRUNO IKSIL, JPMORGAN CHASE BANK, says: $\ensuremath{\mathbf{k}}$
- 03/23/2012 09:06:18 BRUNO IKSIL, JPMORGAN CHASE BANK, says: tu as le chat?

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- 03/23/2012 09:06:22 BRUNO IKSIL, JPMORGAN CHASE BANK, says: rioute le
- 03/23/2012 09:06:29 JULIEN GROUT, JPMORGAN CHASE BANK, says: ayec sylvain? oui
- 03/23/2012 09:06:31 BRUNO IKSIL, JPMORGAN CHASE BANK, says: je ne vois rien chez moi
- 03/23/2012 09:06:37 BRUNO IKSIL, JPMORGAN CHASE BANK, says: mais je me rappelle
- 03/23/2012 09:14:32 JULIEN GROUT, JPMORGAN CHASE BANK, says: ok apparemment tu as booke le trade vers 8h20 ce jour la, moi j'ai trade a 9h.
- 03/23/2012 09:14:52 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
- 03/23/2012 09:50:07 JULIEN GROUT, JPMORGAN CHASE BANK, says: pour l'instant je n'ai que 5 'pieces' au dossier
- 03/23/2012 09:53:45 BRUNO IKSIL, JPMORGAN CHASE BANK, says: regarde ton email
- 03/23/2012 09:53:49 JULIEN GROUT, JPMORGAN CHASE BANK, says:
- 3/23/2012 09:53:50 JULIEN GROUT, JPMORGAN CHASE BANK, says: un de plus $\,$
- 03/23/2012 09:54:03 BRUNO IKSIL, JPMORGAN CHASE BANK, says: ben oui on ne va pas bosser comme si on etait parano tout le temps aussi
- 03/23/2012 09:54:25 JULIEN GROUT, JPMORGAN CHASE BANK, says: 6 pieces
- 03/23/2012 09:56:24 BRUNO IKSIL, JPMORGAN CHASE BANK, says: regarde tes chats a toi avec JP guys
- 03/23/2012 10:05:37 BRUNO IKSIL, JPMORGAN CHASE BANK, says: je fais Mark Shirfan
- $03/23/2012\ 10:22:50\ \text{JULIEN}$ GROUT, JPMORGAN CHASE BANK, says: vois tes emails stp
- 03/23/2012 10:23:14 BRUNO IKSIL, JPMORGAN CHASE BANK, says: je vois
- 03/23/2012 10:23:21 BRUNO IKSIL, JPMORGAN CHASE BANK, says: la var explose
- 03/23/2012 10:23:28 JULIEN GROUT, JPMORGAN CHASE BANK, says: vui
- 03/23/2012 10:23:35 BRUNO IKSIL, JPMORGAN CHASE BANK, says: c foutu

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- 03/23/2012 10:23:37 JULIEN GROUT, JPMORGAN CHASE BANK, says: $\stackrel{\circ}{\circ}$ sule moyen c le book a zero
- 03/23/2012 10:25:04 JULIEN GROUT, JPMORGAN CHASE BANK, says: tu peux me dire ce que t'a dit ade ce matin?
- 03/23/2012 10:25:50 BRUNO IKSIL, JPMORGAN CHASE BANK, says: 3 gars de l'ib sont venus lui demander ma taille sur ig9
- $03/23/2012\ 10:26:08$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: je ne veux pas savoir qui c
- $03/23/2012\ 10:26:19$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: je suis sur lecall
- 03/23/2012 10:28:01 BRUNO IKSIL, JPMORGAN CHASE BANK, says: as tu eu des updates sur les marginal?
- 03/23/2012 10:28:06 JULIEN GROUT, JPMORGAN CHASE BANK, says:
- 03/23/2012 10:28:10 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
- 03/23/2012 10:28:22 JULIEN GROUT, JPMORGAN CHASE BANK, says: 48.7
- $3/23/2012\ 10{:}28{:}48$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: ies marginals sur le rwa
- $03/23/2012\ 10:29:15\ \mbox{JULIEN}$ GROUT, JPMORGAN CHASE BANK, says: non rien.. en cours
- 03/23/2012 10:29:33 BRUNO IKSIL, JPMORGAN CHASE BANK, says: i'en ai besoin
- 03/23/2012 10:29:39 JULIEN GROUT, JPMORGAN CHASE BANK, says: je sais
- 03/23/2012 10:29:44 JULIEN GROUT, JPMORGAN CHASE BANK, says: je viens de relancer pat
- 03/23/2012 10:29:59 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
- $03/23/2012\ 10:31:18\ JULIEN\ GROUT,\ JPMORGAN\ CHASE\ BANK,\ says:$ tu peux me faire les transcripts de david gldenberg a CS stp?
- 03/23/2012 10:31:38 BRUNO IKSIL, JPMORGAN CHASE BANK, says: je suis sur le call
- 03/23/2012 10:31:45 JULIEN GROUT, JPMORGAN CHASE BANK, says: `k
- $03/23/2012\ 10:31:48\ BRUNO\ IKSIL,\ JPMORGAN\ CHASE\ BANK,\ says:$ tout est sur le chat de cs

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- 03/23/2012 10:31:58 BRUNO IKSIL, JPMORGAN CHASE BANK, says: eux tu le faire
- $03/23/2012\ 10:32:03$ JULIEN GROUT, JPMORGAN CHASE BANK, says: ok
- $03/23/2012\ 10:57:13\ BRUNO\ IKSIL,\ JPMORGAN\ CHASE\ BANK,\ says:\ appelle\ moi\ qd\ tu\ peux$
- 03/23/2012 11:36:16 JULIEN GROUT, JPMORGAN CHASE BANK, says: tjs en ligne?
- 03/23/2012 11:38:42 JULIEN GROUT, JPMORGAN CHASE BANK, says: dis moi quand tu as pu retrouver les chats de David Goldenberg
- 03/23/2012 11:38:43 JULIEN GROUT, JPMORGAN CHASE BANK, says: sto
- $03/23/2012\ 12:00:09$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: c sur le chat de cs sur la fin de mois
- 03/23/2012 12:00:16 BRUNO IKSIL, JPMORGAN CHASE BANK, says: et il ya celui de citi
- 03/23/2012 12:00:28 BRUNO IKSIL, JPMORGAN CHASE BANK, says: il faut montrer les deux en parallel
- 3/23/2012 12:00:34 JULIEN GROUT, JPMORGAN CHASE BANK, says: peux tu me les envoyer stp?
- 03/23/2012 12:01:06 BRUNO IKSIL, JPMORGAN CHASE BANK, says: ok je fqis citi
- 03/23/2012 12:01:12 BRUNO IKSIL, JPMORGAN CHASE BANK, says: tu peux fqire cs?
- 03/23/2012 12:03:39 JULIEN GROUT, JPMORGAN CHASE BANK, says: C'ETAIT SUR QUOI DEJA ? LES 6B?
- 03/23/2012 12:04:40 BRUNO IKSIL, JPMORGAN CHASE BANK, says: ok laisse tomber
- 03/23/2012 12:04:41 BRUNO IKSIL, JPMORGAN CHASE BANK, says: je e fais
- 03/23/2012 12:04:54 JULIEN GROUT, JPMORGAN CHASE BANK, says: desole y avait javier j'ai perdu le fil
- 03/23/2012 12:04:59 BRUNO IKSIL, JPMORGAN CHASE BANK, says: pas de pb
- 03/23/2012 12:05:06 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
- 03/23/2012 12:05:16 BRUNO IKSIL, JPMORGAN CHASE BANK, says: je faire janvier et fevrier sur credit suisse

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- 03/23/2012 12:05:44 JULIEN GROUT, JPMORGAN CHASE BANK, says: veux tu te rappeler des chats ou les traders te disaient que l'IB poussait sur ig9?
- 03/23/2012 12:07:45 BRUNO IKSIL, JPMORGAN CHASE BANK, says: non
- 03/23/2012 12:07:47 BRUNO IKSIL, JPMORGAN CHASE BANK, says: aucun
- 03/23/2012 12:19:23 JULIEN GROUT, JPMORGAN CHASE BANK, says:
- 03/23/2012 12:19:39 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
- 03/23/2012 12:19:46 BRUNO IKSIL, JPMORGAN CHASE BANK, says: ignore le dernier email pour csfb*
- 03/23/2012 12:19:49 BRUNO IKSIL, JPMORGAN CHASE BANK, says: c un dupe
- 03/23/2012 12:19:52 JULIEN GROUT, JPMORGAN CHASE BANK, says: bon j'ai les marginals old fashion
- 03/23/2012 12:19:56 BRUNO IKSIL, JPMORGAN CHASE BANK, says: ah demande a Javier
- 3/23/2012 12:20:01 BRUNO IKSIL, JPMORGAN CHASE BANK, says: quel pnl on print today
- 03/23/2012 12:20:08 BRUNO IKSIL, JPMORGAN CHASE BANK, says: je ne sais plus la
- 03/23/2012 12:20:22 JULIEN GROUT, JPMORGAN CHASE BANK, says: j'ai aussi les marginals pour un split IRC/optimal tranches book, ca t'interesse?
- 03/23/2012 12:20:29 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
- 03/23/2012 12:20:33 BRUNO IKSIL, JPMORGAN CHASE BANK, says: stp va voir javier
- 03/23/2012 12:20:40 BRUNO IKSIL, JPMORGAN CHASE BANK, says: je ne sais pas quel pnl envoyer la
- 03/23/2012 12:20:42 JULIEN GROUT, JPMORGAN CHASE BANK, says: ok je vais aller lui demander. il pense que les pieces que j'ai amassees ne sont pas assez
- 03/23/2012 12:20:44 JULIEN GROUT, JPMORGAN CHASE BANK, says:
- 03/23/2012 12:20:49 JULIEN GROUT, JPMORGAN CHASE BANK, says:
- 03/23/2012 12:22:32 BRUNO IKSIL, JPMORGAN CHASE BANK, says: dis moi qd core delta est updated

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- 03/23/2012 12:24:27 JULIEN GROUT, JPMORGAN CHASE BANK, says: 'one
- 03/23/2012 12:24:51 JULIEN GROUT, JPMORGAN CHASE BANK, says: si on doit faire bcp plus de ig9 vs ig18 il faut faire une simulation sur le rwa via Pat
- 03/23/2012 12:27:17 JULIEN GROUT, JPMORGAN CHASE BANK, says: bon je fais le pnl la
- 03/23/2012 12:27:18 JULIEN GROUT, JPMORGAN CHASE BANK, says: ok?
- $03/23/2012\ 12:29:55$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: ah non on ne fera jamais ca!
- 03/23/2012 12:29:59 BRUNO IKSIL, JPMORGAN CHASE BANK, says: y en a mare a la fin
- 03/23/2012 12:30:13 BRUNO IKSIL, JPMORGAN CHASE BANK, says: tu as parle a Javier?
- 03/23/2012 12:37:12 JULIEN GROUT, JPMORGAN CHASE BANK, says: tu noteras qu'il veut faire les simuls de capital AVANT de traiter
- 03/23/2012 12:51:30 JULIEN GROUT, JPMORGAN CHASE BANK, says: bon ca va douiller sur la compression la
- 3/23/2012 12:52:46 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
- $03/23/2012\ 12{:}53{:}00\ \mbox{JULIEN GROUT, JPMORGAN CHASE BANK, says:}$ as tu parle a Javier?
- 03/23/2012 12:56:06 JULIEN GROUT, JPMORGAN CHASE BANK, says: b?
- 03/23/2012 12:56:35 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
- 03/23/2012 12:56:39 JULIEN GROUT, JPMORGAN CHASE BANK, says: ok
- $03/23/2012\ 12:57:19$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: we show -3 until month end on this one
- 03/23/2012 12:57:21 BRUNO IKSIL, JPMORGAN CHASE BANK, says: anyway
- 03/23/2012 13:03:35 JULIEN GROUT, JPMORGAN CHASE BANK, says: je peux appeler?
- 03/23/2012 13:03:47 BRUNO IKSIL, JPMORGAN CHASE BANK, says: i tu veux
- 03/23/2012 13:07:52 JULIEN GROUT, JPMORGAN CHASE BANK, says: le bo ne va rien faire, parce quele pb aujourd'hui c'est la compression condistruital Trestment Requested by JPMORGAN CHASE & CO.

03/23/2012 13:08:07 BRUNO IKSIL, JPMORGAN CHASE BANK, says: arrete

03/23/2012 13:08:19 BRUNO IKSIL, JPMORGAN CHASE BANK, says: tu ne perds pas 200m en compression

03/23/2012 13:08:55 JULIEN GROUT, JPMORGAN CHASE BANK, says:

03/23/2012 13:09:28 JULIEN GROUT, JPMORGAN CHASE BANK, says: on a 34m de cs01 en ig. hy unc'd today (par rapport a nos marques) et ig+3.25. ca fait 110m

03/23/2012 13:09:35 JULIEN GROUT, JPMORGAN CHASE BANK, says: ok?

03/23/2012 13:09:44 BRUNO IKSIL, JPMORGAN CHASE BANK, says: ecoute je n'ai pas le temps

03/23/2012 13:09:49 JULIEN GROUT, JPMORGAN CHASE BANK, says: ok

03/23/2012 13:09:51 JULIEN GROUT, JPMORGAN CHASE BANK, says: ok

 $03/23/2012\ 13:09:53$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: je suis avec pat pour voir les trades

 $03/23/2012\ 13:10:04$ BRUNO IKSIL, JPMORGAN CHASE BANK, says: tout ce que je te demande cdedire a Javier ce que tu vois

03/23/2012 13:10:14 BRUNO IKSIL, JPMORGAN CHASE BANK, says: c tout et ils decide ce qu'on montre

03/23/2012 13:10:20 BRUNO IKSIL, JPMORGAN CHASE BANK, says: parce que la moi je ne sais plus

03/23/2012 13:10:26 BRUNO IKSIL, JPMORGAN CHASE BANK, says: je regarde la reduction du rwa

03/23/2012 14:37:47 JULIEN GROUT, JPMORGAN CHASE BANK, has left the room

E-MAIL TRANSLATION

y JPMORGAN CHASE & CO.

From: JULTEN GROUT <JGROUT3@

Sent: Fri, 23 Mar 2012 18:37 :47 GMT

To: JULTEN GROUT <JGROUT3@

yulien .g.grout@jpmchase.com>; BRUNO IKSIL <BIKSIL2@

IKSIL

Subject:

BRUNO

Subject:

BRUNO

Subject:

BRUNO

03/23/20]205:45:49 JULIEN GROUT, JPMORGAN CHASE BANK, has joined the room 03/23/20]205:45:50 JULIEN GROUT, JPMORGAN CHASE BANK, says:

*** JPMORGAN CHASE BANK, (741671) Disclaimer: THIS IS FOR INFORMATION ONLY, NOT AN OFFER OR SOLICITATION FOR THE PURCHASE OR SALE OF ANY FINANCIAL INSTRUMENT. NOR AN OFFICIAL CONFIRMATION OF TERMS. THE INFORMATION IS BELIEVED TO BE RELIABLE, BUT WE DO NOT WARRANT ITS COMPLETENESS OR ACCURACY PRICES AND AVAILABILITY ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGE WITHOUT NOTICE. WE MAY HOLD A POSITION OR ACT AS A MARKET MAKER IN ANY FINANCIAL INSTRUMENT DISCUSSED HEREIN. CLIENTS SHOULD CONSULT THEIR OWN ADVISORS REGARDING ANY TAX. ACCOUNTING OR LEGAL ASPECTS OF THIS INFORMATION AND EXECUTE TRANSACTIONS THROUGH A IP. MORGAN ENTITY IN THEIR HOME JURISDICTION UNLESS GOVERNING LAW PERMITS OTHERWISE.

03/23/20 J205:45 :54 JULIEN GROUT, JPMORGAN CHASE BANK, says:

03/23/20 1205:4554 BRUNO IKSIL, JPMORGAN CHASE BANK, has joined the room 03/23120 12 05 :4554 BRUNO IKSIL. JPMORGAN CHASE BANK, says

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03/23/201205:45:59 BRUNO IKSIL, JPMORGAN CHASE BANK, says: salut

hi

031231201205:46:01 JULTEN GROUT, JPMORGAN CHASE BANK, says: salut

hi

 $03/23/20\ 1205:4603\ BRUNO\ IKSIL, JPMORGAN\ CHASE\ BANK, says:$

c mort la

it is over/it is hopeless now

03/23 /20 1205:46:28 JULIEN GROUT, JPMORGAN CHASE BANK, says:
david de CS appoelle au sujet des skew trades. Je lui demande un prix ferme sur indice vs single names?
David from CS calls about skew trades. I ask him a firm price on index vs single names?
03/23/201205:46:32 JULIEN GROUT. JPMORGAN CHASE BANK, says:

Draft Transcript - Subject to Review and Correction Likely Contains Errors

by JPMORGAN CHASE & CO.

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coupons matched etc
coupons matched etc
03/23/2012054633 JULIEN GROUT, JPMORGAN CHASE BANK, says:
03 /23/201205:46:42 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
ves
03/23/20 1205:46:46 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
c un full upfront
it is a full upfront
03/23/20 1205:46:54 JULIEN GROUT, JPMORGAN CHASE BANK, says:
ok understood
ok understood
03 /23/201205:48: 11 JULIEN GROUT, JPMORGAN CHASE BANK, says:
pour revenir a ton premier point
to get back to our first point
03/23/20 1205:48: 14 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
continue a vendre la ss
keep on selling the ss
03/23/201205:48:25 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
leve la 0-3 10yr
levy/raise/exercise the 0-3 10yr
03/23/20 1205 :48 :28 JULIEN GROUT, JPMORGAN CHASE BANK, says
on en discutera lundi si tu veux bien,
we will talk about that on Monday if it is fine with you
03 /23 /20 1205:48:32 JULIEN GROUT, JPMORGAN CHASE BANK, says:
ok ok je continue ca
ok ok I continue that
03123/20 1205:48:38 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
yes
03 /23 /201205:48:48 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
je te dis
I tell you
03/23/201 205:48:52 BRUNO TKSIL, JPMORGAN CHASE BANK, says
ils vont nous defoncer
they are going to trash/destroy us
03/23/20 12 05:48:56 JULIEN GROUT, JPMORGAN CHASE BANK, says:
y a bop a dire, mais je ne veux pas charger ta charette qui est deja bien remplie
there is a lot to say, but I don't want to burden you more than you already are
03/23 /20 12 055228 BRUNO IKSIL, JPMORGAN CHASE BANK. says
c soir tu as au moins 600m
tonight you'll have at least 600m
03123/201 2055236 BRUNO IKSIL, JPMORGAN CHASE BANK, says
BID ASK
BID ASK
03/23 /20 120552:40 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
MID
MID
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03123120 1205 :52 :51 BRUNO TKSIL, JPMORGAN CHASE BANK, says:
BID ASK TU AS 300M AU MOINS
BID ASK YOU HAVE 300M AT LEAST
03/23/2012 05:54:46 JULIEN GROUT, JPMORGAN CHASE BANK, says:
tu as vu le run de jospehine.. attack full force.
You have seen Josephine's run., attack full force.
03/23/2012 05:57:56 BRUNO IKSTL, JPMORGAN CHASE BANK. says:
oui
ves
03 /23 /20120557:59 BRUNO IKSIL, JPMORGAN CHASE BANK. says:
it is everywhere/all over the place
03/23/20 12 0558:04 BRUNO IKSTL, JPMORGAN CHASE BANK, says:
on est mort je te dis
we are dead I tell you
03/23 /2012 05:58:19 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
mais bon c hors de mon controel maintenant
but then it is out of my hands now
03/23/2012 05:58:27 BRUNO TKSIL, JPMORGAN CHASE BANK, says:
j'ai fait ce qu'il fallait
I did what I had to do
03 /23 /2012 06:04:04 JULIEN GROUT, JPMORGAN CHASE BANK, says:
03/23/2012 06:18:11 JULIEN GROUT, JPMORGAN CHASE BANK, says
oula bnp ...
wow bnp...
03/23/2012 07:2702 JULIEN GROUT, JPMORGAN CHASE BANK, says:
03/23/2012 07:30:46 BRUNO IKSTL, JPMORGAN CHASE BANK, says:
оці
03/23/2012 07:31:38 JULIEN GROUT. JPMORGAN CHASE BANK, says:
l'arret du trading c nous 3 ou juste moi?
The stop of the trading, is it the 3 of us or only me?
03123/2012 07:31:49 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
03123/2012 07:31:52 BRUNO IKSTL, JPMORGAN CHASE BANK, says:
sur core
on core
03/23/2012 07:31:52 JULIE GROUT, JPMORGAN CHASE BANK, says:
03 /23/2012 07:32:05 JULIEN GROUT, JPMORGAN CHASE BANK, says
eric/luis ils peuvent continuer, sur leur tactical
eric/luis can go on, on their tactical
03/23/2012 07:32:06 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
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continue sur la ss les 0-3 1 A yr
go on with the ss the 0-3 1 A yr
03/23/2012 07:32:07 JULIEN GROUT, JPMORGAN CHASE BANK, says:
ok?
03/23/2012 07:32:11 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
oui
03 /23 /20 1207:32:27 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
continue sur les 25-35 HY
go on with the 25-35 HY
03123 /20 120732:32 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
pas les 15-25
not the 15-25
03/23/201207:32:53 JULIEN GROUT, JPMORGAN CHASE BANK, says:
03/23/201207:33:02 JULIEN GROUT, JPMORGAN CHASE BANK, says:
tu pourras me donner la couleur stp? s'il y en a.
will you give me the color please? if there is some.
03/23120 1207:33: 17 BRUNO IKSIL, JPMORGAN CHASE BANK. says:
rien poour le moment
nothing for now
03 /23/201207:33:20 JULIEN GROUT, JPMORGAN CHASE BANK. says:
ok
ok
03/23 /20 120733 :28 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
ca va se negocier avec l'IB
it will be negotiated with the IB
03/23/20 1207:33:34 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
tout en haut
at the top
031231201207:33:41 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
et je vais en prendre pour mon grade
and I am going to be hauled over the coals
03 /23 /20 1207:33:44 JULIEN GROUT, JPMORGAN CHASE BANK. says
today?
today?
03/23/20 120733:49 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
mais bon on a du carry
but we have some carry
03123/20 1207:33:51 JULIEN GROUT, JPMORGAN CHASE BANK, says:
ah? cela t'a ete confirme/
ah? it was confirmed to you?
03 /23 /20 1207:34:03 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
c pas necessaire
it is not necessary
03/231201207:34:20 BRUNO IKSIL, JPMORGAN CHASE BANK, says
tu ne perds pas 500M sans conseugences
you don't lose 500M without consequences
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03/23/20 12 07:34:30 BRUNO TKSIL, JPMORGAN CHASE BANK, says
garde le pour toi
keep it for you
03123/201207:34:39 JULIEN GROUT, JPMORGAN CHASE BANK, says:
oh oui
oh yes
03/23 /20 120734:52 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
c le bon sens qui me dit ca
good sense tells me so
03/23120 120746:55 JULIEN GROUT, JPMORGAN CHASE BANK, says:
tua as parle a august? sinon, je lui dis de nous montrer le skew trade (sous le bon format)?
Did you talk to august? otherwise. I tell him to show us the skew trade (under the good format)?
03/2312012074729 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
oui
03/23 /20 12074735 JULIEN GROUT, JPMORGAN CHASE BANK, says:
03/23/20 120747:38 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
essaie de collecter des prix fermes
try to collect firm prices
03/23 /20 1207 4 745 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
je n'ai rien vu de ferme pour le moment
I haven't seen anything finn for now
03/23 /20 1207481 5 JULIEN GROUT, JPMORGAN CHASE BANK, says:
ok
03123/2012 07:56:47 JULIEN GROUT, JPMORGAN CHASE BANK, says
Bruno? tu as besoin de qqcho/
Bruno? do you need anything?
03/23/20 12 08:13:16 JULIEN GROUT, JPMORGAN CHASE BANK, says
bon bruno
well bruno
03/23 /20 1208:13 :26 JULIEN GROUT, JPMORGAN CHASE BANK, says:
javier est reparti dans un conf call avec A
javier is back again in a phone call with A
03/23/2012081332 JULIEN GROUT, JPMORGAN CHASE BANK, says:
je n'ai pas pu lui parler
I couldn't talk to him
03/23 /201208 14:05 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
ok
03/23/201208:14:24 JULIEN GROUT, JPMORGAN CHASE BANK, says:
mais bon il n'avait pas l'ai concerne par des slidse .. plutot autre chose
but anyway he did not seem concerned by the slides.. rather something else
03/23 /2012 08:14:35 JULIEN GROUT, JPMORGAN CHASE BANK, says
je vais chercher le dej et je reviens
I am going to get lunch and I come back
03/23/2012 08:26: 17 BRUNO IKSIL, JPMORGAN CHASE BANK, says
tu es la?
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Are you here?

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03/23 /2012 08:31:42 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
urgent
03/23/20 12 08:3349 JULIEN GROUT, JPMORGAN CHASE BANK, say s:
yes
03/23/2012 085930 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
regarde ton email
look at your email
03 /23/20 1209:0002 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
essaye de retrouver les run de roman shukhman sur ig9 pour montrer qu'ils sont plus steep et mettent le
ig9 10yr plus que le marche
try to find roman shukhman's runs on ig9 in order to show that they are "more steep"/steeper and that
they put the ig9 10 yr more than the market
03123/20 1209:01 :36 JULIEN GROUT, JPMORGAN CHASE BANK, says:
bruno
bruno
03 /23/20 120902:07 BRUNO IKSIL, JPMORGAN CHASE BANK, says
essaie de retrouver les chat sur les chat de jp ou ils nou sniffent
try to find the chats about the jp's chat where they sniff us
03123 /2012090213 JULIEN GROUT, JPMORGAN CHASE BANK, says:
tu te rappelles l'histoire de debut d'annee avec Sylvain sur le roll s9 5y?
do you remember the story from the beginning of the year with Sylvain on the s9 5y roll?
03/23 /20120902:20 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
03 /23/20 1209:02:26 BRUNO IKSIL, JPMORGAN CHASE BANK, says
c'etait koi deja?
What was it again?
03123 /20120902:41 JULIEN GROUT, JPMORGAN CHASE BANK, says
j'avais checke sylvain, et fait une gross taille de roll s9 5y
I had checked with Sylvain and done a big size of roll s9 5y
03 /231201209:0251 JULIEN GROUT, JPMORGAN CHASE BANK, says:
peux de temps apres il me dit que jpm le lift dessus
shortly after he tells me that jpm lifts him from it
03/231201209:0256 BRUNO IKSIL. JPMORGAN CHASE BANK. says:
ah oui
oh yes
03 /23 /20 1209:03:04 BRUNO TKSIL, JPMORGAN CHASE BANK, says:
il faut le retrouver celui la
we need to find this one
03 /23 /20 1209:03 :13 JULIEN GROUT, JPMORGAN CHASE BANK, says
je 'ai, en francais malheureusement
I have it, in French unfortunately
03 /23/20120903 :21 BRUNO IKSIL, JPMORGAN CHASE BANK, says
c pas grave envoie
it does not matter, send it,
03123 /20 120903:3 1 JULIEN GROUT, JPMORGAN CHASE BANK, says
en rrecanche peux tu me rappeler ce que tu avais trade/booke?
However could you remind me what you traded/booked?
03123120 120903:33 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
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achilles comprend tres bien le français
achilles understands French very well
03/23/20 1209:03:42 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
cad?
Which means?
03 /23 /201209:03:48 JULIEN GROUT, JPMORGAN CHASE BANK, says:
je veux le timing exact
I want the exact timing
03/23/20 1209:03:56 BRUNO IKSIL, JPMORGAN CHASE BANK, says
de auoi?
of what?
03/23/20 1209:04:03 JULIEN GROUT, JPMORGAN CHASE BANK, says
ben des evenements
well, of the events
03/23/2012090416 JULIEN GROUT, JPMORGAN CHASE BANK, says
parce que si tu as deja traite du roll avant moi la dessus
because if you have already treated some roll before me on that
03123/2012090420 JULIEN GROUT, JPMORGAN CHASE BANK. says
ca sera encore plus limpide
it will be even clearer
03 /23 /20 120904:23 JULIEN GROUT, JPMORGAN CHASE BANK, says:
tu vois?
Do you see ?
03123/20 1209:04:32 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
je ne me souviens plus
I don't remember
03/23/201209:04:39 JULIEN GROUT, JPMORGAN CHASE BANK, says
ok je regarde le blotter
ok I look at the blotter
03/23/201209:04:41 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
c quel jour?
What day is it?
03/23 /20 1209:05:27 JULIEN GROUT, JPMORGAN CHASE BANK, says:
ah ui! tu as traite 250m de roll s9 avec db a 7h55!!
oh yes! You dealt with 250m of roll s9 with db at 7h55!!
03 /23 /20 12 0905 :29 JULIEN GROUT, JPMORGAN CHASE BANK, says
le 4-jan
on 4th Jan
03 /23/20 120906:11 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
03 /23 /20 1209:0618 BRUNO IKSIL, JPMORGAN CHASE BANK, says
tu as le chat?
Do you have the chat?
03/23/20 120906:22 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
add it
03/23 /20 1209:06 :29 JULIEN GROUT, JPMORGAN CHASE BANK, says:
avec sylvain? oui
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with Sylvain? yes
03/23/20120906:31 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
je ne vois rien chez moi
I can't see anything on mine
03 /23 /20 1209:06:37 BRUNO IKSTL, JPMORGAN CHASE BANK, says:
mais je me rappelle
but I remember
03/23 /201209: 14:32 JULIEN GROUT, JPMORGAN CHASE BANK, says:
ok apparemment tu as booke Ie trade vers 8h20 ce jour la, moi j'ai trade a 9h.
ok apparently you booked the trade around 8h20 this day, and I traded at 9h.
03 /23/20 12 09: 14:52 BRUNO IKSIL, JPMORGAN CHASE BANK, says
cool
cool
03 /23 /20 1209:5007 JULIEN GROUT, JPMORGAN CHASE BANK, says:
pour l'instant je n'ai que 5 'pieces' au dossier
for now I have only 5 documents in the file
03 /23/201209:53:45 BRUNO IKSIL, JPMORGAN CHASE BANK. says:
regarde ton email
look at your email
03 /23/20 1209:53:49 JULIEN GROUT, JPMORGAN CHASE BANK, says:
vu
seen
03/23120 1209:53:50 JULIEN GROUT, JPMORGAN CHASE BANK, says:
03/23/201209:54:03 BRUNO IKSIL, JPMORGAN CHASE BANK, says
ben oui on ne va pas bosser comme si on etait parano tout le temps aussi
well yes, we are not going to work as if we were paranoid all the time!
03/23120 1209:54:25 JULIEN GROUT, JPMORGAN CHASE BANK, says:
6 pieces
6 documents
03/23120120956:24 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
regarde tes chats a toi avec JP guys
look at your own chats with the JP guys
03/23 /2012 10:05:37 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
je fais Mark Shirfan
I look at Mark Shirfan
03 /23/20 12 10:2250 JULIEN GROUT, JPMORGAN CHASE BANK. says:
vois les emails stp
look at the emails please
03/23 /20 12 1023 14 BRUNO IKSIL, JPMORGAN CHASE BANK, says
je vois
I see
03/23 /20 12 10:23:21 BRUNO IKSIL, JPMORGAN CHASE BANK; says:
la var explose
the var explodes
0312312012 10:2328 JULIEN GROUT, JPMORGAN CHASE BANK, says:
oni
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03/23/20 12 10:23 :35 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
c foutu
it is over
03/23 /20 12 10:23 :37 JULIEN GROUT, JPMORGAN CHASE BANK, says:
le sule moyen c le book a zero
the only way is the book at zero
03123 /20 12 10:25 :04 JULIEN GROUT, JPMORGAN CHASE BANK. says:
tu peux me dire ce que t'a dit ade ce matin?
Can you tell me what ade told you this morning?
03/23/201210:2550 BRUNO TKSIL, JPMORGAN CHASE BANK, says
3 gars de l'ib sont venus lui demander ma taille sur ig9
3 IB guys came to ask him my size on ig9
03 /23 /2012 1026:08 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
je ne veux pas savoir qui c
I don't want to know who it is
03/23/2012 1026: 19 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
ie suis sur le call
I am on the call
03/23/2012 10:28:01 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
as tu eu des updates sur les marginal?
Did you get the updates about the marginal?
03/23/201210:28:06 JULIEN GROUT, JPMORGAN CHASE BANK, says:
03/23/201210:28:10 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
03/23/2012 10:28:22 JULIEN GROUT, JPMORGAN CHASE BANK, says:
48.7
48.7
03 /23 /2012 10:2848 BRUNO IKSIL. JPMORGAN CHASE BANK, says:
les marginals sur le rwa
the marginals on the rwa
03/23120 12 10:29: 15 JULIEN GROUT, JPMORGAN CHASE BANK, says:
non rien .. en cours
no, nothing.. in progress
03/23 /2012 10:29:33 BRUNO IKSIL. JPMORGAN CHASE BANK. says:
j'en ai besoin
I need them
03/23/2012 10:2939 JULIEN GROUT, JPMORGAN CHASE BANK, says
je sais
03/23/20J 2 10:2944 JULIEN GROUT, JPMORGAN CHASE BANK, says:
je viens de relancer pat
I just asked Pat again
03 /23 /2012 10:29:59 BRUNO IKSIL. JPMORGAN CHASE BANK, says:
merci
03 /23 /2012 10:31: 18 JULIEN GROUT, JPMORGAN CHASE BANK, says
tu peux me faire les transcripts de david gldenberg a CS stp?
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Can you please do/check david gldenberg's transcripts to CS?
03/2312012 10:31:38 BRUNO IKSIL. JPMORGAN CHASE BANK, say s:
je suis sur le call
I am on the call
03/23/2012 10:3145 JULIEN GROUT, JPMORGAN CHASE BANK, says:
ok
ok
03/23/2012 10:3148 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
tout est sur le chat de cs
everything in on cs's chat
03/23 /2012 10:31 58 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
can you do it?
03/23/20 12 10:3203 JULIEN GROUT, JPMORGAN CHASE BANK, says:
03 /2312012 10 57: 13 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
appelle moi qd tu peux
call me when you can
03 /23/20 12 11:36: 16 JULIEN GROUT, JPMORGAN CHASE BANK, says:
tjs en ligne?
Still online?
03123/20 12 11:3842 JULIEN GROUT, JPMORGAN CHASE BANK, says:
dis moi quand tu as pu retrouver les chats de David Goldenberg
tell me when you can find David Goldenberg's chats
03 /23 /20 12 11 :3843 JULIEN GROUT, JPMORGAN CHASE BANK, says:
please
03 /23 /20 12 1200:09 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
c sur le chat de cs sur la fin de mois
It is on cs's chat at the end of the month
03/23/20 12 1200 16 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
et il ya celui de citi
and there is the citi one
03/23/20 12 1200:28 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
il faut montrer les deux en parallel
you need to show both in parallel
03/23/20 12 12 00 3 4 JULIEN GROUT, JPMORGAN CHASE BANK, says
peux tu me les envoyer stp?
Can you send them to me please?
03/23/20 12 12:0106 BRUNO IKSIL, JPMORGAN CHASE BANK, says
ok je fqis citi
ok I do citi
03/23/20\ 12\ 12:01:12 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
tu peux fqire cs?
Can you do es please?
03 /23/2012 12:0339 JULIEN GROUT, JPMORGAN CHASE BANK, says:
C'ETAIT SUR QUOI DEJA ? LES 6B?
About what was it again? The 6B?
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03 /23/20 12 12:0440 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
ok give it up
03/23/20 12 12:0441 BRUNO IKSIL, JPMORGAN CHASE BANK, says
je e fais
03123/20 12 1204:54 JULIEN GROUT, JPMORGAN CHASE BANK, says:
desole y avait javier j 'ai perdu le fil
sorry javier was here and I lost track
03 /23/2012 12:04:59 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
pas de pb
no pb
0312312012 12:05:06 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
regarde tes email
look at your emails
03/23/2012 1205:16 BRUNO TKSn.., JPMORGAN CHASE BANK, says:
je faire janvier et fevrier sur credit suisse
I am going to do January and February on credit suisse
03/23 /2012 12:05:44 JULIEN GROUT, JPMORGAN CHASE BANK. says:
peux tu te rappeler des chats ou les traders te disaient que l'IB poussait sur ig9?
Can you remember chats where the traders told you that the IB insisted on ig9?
03/2312012 12:07:45 BRUNO TKSIL, JPMORGAN CHASE BANK. says:
non
03/23 /201212;07:47 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
03/23 /2012 12: 19:23 JULIEN GROUT, JPMORGAN CHASE BANK, says:
bruno
bruno
03 /23/20 12 12: 19:39 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
oui
03/23 /2012 12: 19:46 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
ignore le dernier email pour csfb*
disregard the last email for esfb
03/23/2012 12 19:49 BRUNO TKSIL, JPMORGAN CHASE BANK, says:
c un dupe
it is a trick
03/23/2012 12: 1952 JULIEN GROUT, JPMORGAN CHASE BANK, says:
bon j'ai les marginals old fashion
well, I have the old fashion marginals
03/23 /2012 12 1956 BRUNO IKSIL, JPMORGAN CHASE BANK, says
ah demande a Javier
ah ask Javier
03/23/2012122001 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
quel pni on print today
what pnl we print today
03/23/2012 12:20:08 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
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I don't know anymore
03/23/20121220:22 JULIEN GROUT, JPMORGAN CHASE BANK, says:
j'ai aussi les marginals pour un split IRC/optimal tranches book, ca t'interesse?
I also have the marginals for a split IRC/optimal tranches book, are you interested?
03/23/20 12 12:20:29 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
ves
03 /23/2012 12:20:33 BRUNO IKSIL, JPMORGAN CHASE BANK. says:
stp va voir javier
please, go see javier
03/23/2012 12:20:40 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
je ne sais pas quel pnl envoyer la
I don't know which pnl I should send
03 /2312012 12:20:42 JULIEN GROUT, JPMORGAN CHASE BANK, says
ok je vais aller lui demander. il pense que les pieces que j'ai amassees ne sont pas assez
ok I am going to ask him, he thinks that the documents that I collected are not enough
03/23/20 121 2:20:44 JULIEN GROUT, JPMORGAN CHASE BANK. says:
ok
03 /23120 12 12:20:49 JULIEN GROUT, JPMORGAN CHASE BANK, says:
je vais aller lui envoyer
I am going to send them to him
03 /23/201212:22:32 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
dis moi qd core delta est updated
tell me when core delta is updated
03/23/2012 12:24:27 JULIEN GROUT, JPMORGAN CHASE BANK, says
done
done
03 /2312012 12:24:51 JULIEN GROUT, JPMORGAN CHASE BANK, says:
si on doit faire bcp plus de ig9 vs ig18 il faut faire une simulation sur le rwa via Pat
if we must do much more ig9 vs ig18, we need to do a simulation on the rwa via Pat
03/23/2012 12:27: 17 JULIEN GROUT, JPMORGAN CHASE BANK, says:
bon je fais le pnl la
well. I do the pnl now
03/23/2012 1227: 18 JULIEN GROUT, JPMORGAN CHASE BANK. says:
ok?
ok?
0312312012 12:29:55 BRUNO IKSIL, JPMORGAN CHASE BANK, says
ah non on ne fera jamais ca!
oh no, we will never do that !
03/23/20 12 12:2959 BRUNO IKSIL, JPMORGAN CHASE BANK. says:
yen a mare a la fin
enough is enough
03/23/20 12 12:30 13 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
tu as parle a Javier?
Did you talk to Javier?
03/23/20 12 12:37: 12 JULIEN GROUT, JPMORGAN CHASE BANK, says:
tu noteras qu'il veut faire les simuls de capital AVANT de traiter
you'll notice that he wants to do the capital simulations BEFORE dealing
```

```
03123/20 12 12:51 ;30 JULIEN GROUT, JPMORGAN CHASE BANK, says:
bon ca va douiller sur la compression la
it is going to be spent/expensive on the compression now
03/23/20 12 12:52:46 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
oui
03/23120 12 12:53:00 JULIEN GROUT, JPMORGAN CHASE BANK, says
as tu parle a Javier?
Did you talk to javier?
03/23/2012 125606 JULIEN GROUT. JPMORGAN CHASE BANK, says
b?
b?
03123 /20 12 12:56:35 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
oui
03 /23/201212:56:39 JULIEN GROUT, JPMORGAN CHASE BANK, says:
ok
ok
03/23 /2012 12:57: 19 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
we show -3 until month end on this one
we show -3 until month end on this one
03/23 /20 12 12:57:21 BRUNO IKSIL, JPMORGAN CHASE BANK, says
anyway
anyway
03/23/20121303:35 JULIEN GROUT, JPMORGAN CHASE BANK. says:
je peux appeler?
Can I call?
03/23/20 121303:47 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
si tu veux
03 /23/20 1213:0752 JULIEN GROUT, JPMORGAN CHASE BANK, says:
le bo ne va rien faire, parce quele pb aujourd'hui c'est la compression
the bo is not going to do anything, because today's problem is compression
03123 /20 12 13 08:07 BRUNO IKSIL, JPMORGAN CHASE BANK, says
arrete
stop that
03123/201213:08:19 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
tu ne perds pas 200m en compression
you do not loose 200m with compression
03/23/20 121308:55 JULIEN GROUT, JPMORGAN CHASE BANK, says:
bon
well
03123/20 12 13:09:28 JULIEN GROUT, JPMORGAN CHASE BANK, says:
on a 34m de cs01 en ig. hy unc'd today (par rapport a nos marques) et ig+3,25, ca fait 110m
we have 34m of cs01 in ig. Hy unc'd today (in comparison with our marks) and ig+3.25. it makes
110m
03/23/2012 1309:35 JULIEN GROUT, JPMORGAN CHASE BANK, says
ok?
Ok?
```

03/23/2012 1309:44 BRUNO IKSIL, JPMORGAN CHASE BANK. says: ecoute je n'ai pas le temps listen, I don't have time 03123/20 1213:09:49 JULIEN GROUT, JPMORGAN CHASE BANK, says: 03/23/20 121309:51 JULIEN GROUT, JPMORGAN CHASE BANK, says ok 03/23/20 12130953 BRUNO IKSIL, JPMORGAN CHASE BANK, says: je suis avec pat pour voir les trades I am with pat to see for the trades 03/23/20 1213 :10:04 BRUNO IKSIL, JPMORGAN CHASE BANK, says: tout ce que je te demande c de dire a Javier ce que tu vois all that I am asking you is to tell Javier what you see 03123/20 12 13: 10: 14 BRUNO IKSTL, JPMORGAN CHASE BANK, says: c tout et ils decide ce qu'on montre that's it and he decides what we show 03/23/20 12 13: 1 0:20 BRUNO IKSIL, JPMORGAN CHASE BANK, says: parce que la moi je ne sais plus because me. I don't know anymore 03/23/20 12 13 1026 BRUNO IKSIL, JPMORGAN CHASE BANK, says je regarde la reduction du rwa I look at the reduction in the rwa

03/23/20 12 14:37:47 JULIEN GROUT, JPMORGAN CHASE BANK, has left the room

Draft Transcript - Subject to Review and Correction Likely Contains Errors

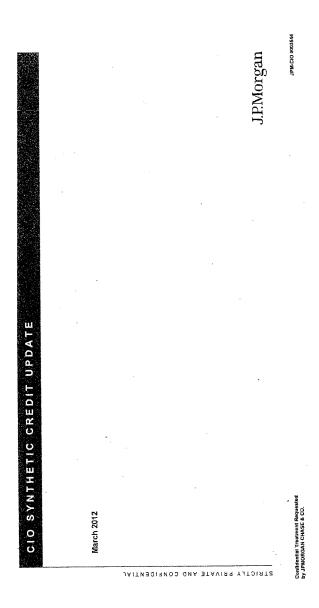
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JPM-C10 0003541

From: Iksil, Bruno M <bruno.m.iksil@jpmchase.com>

Sent: Thu, 29 Mar 2012 21:18:08 GMT

.o: Martin-Artajo, Javier X <javier.x.martin-artajo@jpmorgan.com>
Subject: First draft of the presentation



Core Credit Book: summary

- 1- the beta adjusted moves
 - case of a 1x1 hy vs IG position : illusions with spreads and bp measure sensitivities
 - the book remains neutral x% CS01: implications
 - 1- if IG9 lags, the book becomes long risk, because we are long risk in IG9
 - 2- if HY decompresses, the book becomes short risk, because we are short risk in HY
- 2- the Method
 - Look at beta adjusted moves on history : the whole story is about compression and decompression
 - breakdown the risk from beta factors
 - 1- the book has a directional bias, but next it is all about expected loss changes (mixing carry and MTM)
 - 2- the beta neutral book breaks into 3 parts:
 - a- decompression trade ie HY vs IG on the run
 - b- S9 vs IG on the run and hy off the run vs HY on the run
 - c equity tranche slope
- 3- the findings: target YTD at -750M
 - the book is huge: 95Bln IG9 and 38Bln S9 fwds, decompression (8M bp in HY or 25Bln, 2.3M in Xover or 7Bln)
 - Decompression worked very well and only starting: total gain ytd of 600M (60Bp Xover, 60bps in HY)
 we captured 12% decompression out of a move of 18%
 - Series9 lag is overwhelming : total loss YTD is 1.5bln (22bps in IG9 fwds and main S9)
 - directionality -60M and carry -40M (with no roll down) : total 100m
 - -defaults (Kodak and Rescap) cost are estimated at 100M total
 - 0-3 equity slopes cost a total 200M : 50M in itraxx (2pts) and 150M in CDX IG (5pts)
 - -New trades : gain 200M

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JPM-CIQ 0003546

Core Credit Book: Trading activity: positions and new trades

Rationale for the positions increase :

- 1- cover the HY downside on some defaults, prepare for IG tightening, stay market neutral to minimize RWA
- 2- started by selling IG9 5yr and S9 5yr : the curve steepened and the forwards moved up
- 3- sold S9 and IG9 5x10 to limit the P&L hit
- 4- defended the P&L at Month end while the decompression kept going and increased the underperformance of S9 series

Itraxx Block		All trades	Start Jan Book	Start Feb Book	Start March Book	Current Book
Main OTR Xover	3.700	-2,479,033,784	-3,756,756,757	-3,283,783,784	-4,884,371,622	-6,235,790,54
Main OTR IG	4.500	10,599,246,667	16,062,222,222	14,040,000,000	20,883,402,222	26,661,468,889
S9 Fwd	4:300	15,534,528,571	20,497,375,000	27,746,375,000	33,398,625,000	38,511,625,000
5yr IG OTR eq	4.500	14,844,105,079	19,586,380,556	26,513,202,778	31,914,241,667	36,799,997,22
Net 5yr OTR	4.500	22,472,525,079	-4,116,619,444	6,190,069,444	14,082,350,556	20,725,417,22
CDX block		All trades	Start Jan Book	Start Feb Book	Start March Book	Current Book
HY OTR	4.100	-12,027,013,171	-7,246,905,439	-7,695,056,537	-14,662,635,805	-19,273,918,61
IG OTR	5.000	52,269,399,240	31,495,051,038	33,442,715,708	63,723,815,208	83,764,450,27
Hyotr	4,100	-2,550,011,220	-8,555,429,927	-11,325,839,805	-11,224,162,976	-11,105,441,14
HY10-11	2.435	4,293,653,388	14,405,446,694	19,070,202,546	18,899,001,314	18,699,100,08
IG9 fwd	4.500	39,888,688,889	54,651,951,114	75,029,095,559	94,017,484,448	94,540,640,00
IG OTR	5,000	-35,899,820,000	-49,186,756,003	-67,526,186,003	-84,615,736,003	-85,086,576,00
Net IG OTR	5.000	12.061.510.760	-20,135,375,035	-5,227,009,705	-8,934,809,205	-8,073,864,27

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Core Credit Book: BP sensitivities and Directionality of the book

As spreads tightened the IG9 and S9 10yr saw their duration increase while all other legs had a shrinking duration

- 1- this created an increase on the expected loss of the long risk that was amplified with the forward exposure
- 2- the decompression created a long risk that was covered with a short risk in HY as the market rallied (Var minimization)
- 3- this long risk exposure should have been maintained : this would have triggered an increase in RWA and Var
- 4- the decompression trade in HY and Xover was never large enough due to the legacy because we had to increase the position to defend the P&L hit without being able to stay long risk (due to RWA & Var constraints)
- 5- the decompression in S9 (around 25%) have induced a natural increase of long risk circa 10Bln long risk in main and 25Bln long risk in IG

CS01	All trades	0 Start Jan Book	Start Feb Book	Start March Book	Current Book
Main OTR Xover	-917,243	-1,390,000	-1,215,000	-1,807,218	-2,307,243
Main OTR IG	4,769,661	7,228,000	6,318,000	9,397,531	11,997,661
0					
S9 Fwd	6,679,847	8,813,871	11,930,941	14,361,409	16,559,999
5vr IG OTR eq	6,679,847	8,813,871	11,930,941	14,361,409	16,559,999
0					
Net 5yr OTR	10,112,636	-1,852,479	2,785,531	6,337,058	9,326,438
0					
CDX block	All trades	Start Jan Book	Start Feb Book	Start March Book	Current Book
HY OTR	-4,931,075	-2,971,231	-3,154,973	-6,011,681	-7,902,307
IG OTR	26,134,700	15,747,526	16,721,358	31,861,908	41,882,225
0					
Hyotr	-1,045,505	-3,507,726	-4,643,594	-4,601,907	-4,553,231
HY10-11	1,045,505	3,507,726	4,643,594	4,601,907	4,553,231
. 0					
0					
IG9 fwd	17,949,910	24,593,378	33,763,093	42,307,868	42,543,288
IG OTR	-17,949,910	-24,593,378	-33,763,093	-42,307,868	-42,543,288
Net IG OTR	6,030,755	-10,067,688	-2,613,505	-4,467,405	-4,036,932

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SYNTHETIC CREDIT UPDATE

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Core Credit Book: P&L explain

Positives	+1020M USD	Negatives -1820M USD
Decompression	+560M USD	Steepening S9 and IG9 -1000M USD
HY off the run	+ 200M USD	Defaults - 150M USD
Carry	+ 150M USD	Duration effect - 450M USD
New trades	+ 110M USD	Equity tranche steepening220M USD

	i	Feb	March	Current Book	TOTALS
Book	TOTALS	88,516,208	-12,239,142	-180,141,486	-103,864,420
Itraxx Block					. 0
Xover/main ratio		58,799,595	44,189,466	57,852,908	160,841,968
S9fwd ratio	1	-52,805,736	-122,108,870	-242,054,127	-416,968,733
Tranche P&L		20,000,000	-20,000,000	-50,000,000	-50,000,000
New trades P&L		50,000,000	20,000,000	. 0	70,000,000
directional		12,522,349	65,680,263	54,059,733	132,262,345
,	TOTALS				TOTALS
IG block		-118,638,384	-71,133,553	-524,044,348	-713,816,284
HY/IG ratio		89,015,888	120,496,700	199,004,093	408,516,681
HY off ther un vs on the run	}	181,036,597	56,597,893	-34,187,796	203,446,695
IG9 Fwd	l	-340,643,952	-69,926,692	-544,970,101	-955,540,745
Tranche P&L	1	-35,000,000	-70,000,000	-65,000,000	-170,000,000
New Trade P&L		20,000,000	20,000,000	0	40,000,000
directional	[-33,046,916	-28,301,454	-28,890,544	-90,238,914
Defaults		•	-100,000,000	-50,000,000	-150,000,000

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CIO SYNTHETIC CREDIT UPDATE

Core Credit Book: Series 9 steepening explanation : the torwards have lagged the 40bps market rally by 22 bps....

CDX IG9	Spread compressio	spread 03/01/2012	spread 27/03/2012 [Ouration chge	Spread chge	Duration adjusted	Beta adjust Dur1	Du	ur2
5yr	48%	132	68	-23.00%	64	90.90	92.3	0.97	0.
7/17	37%	140	88	-14.00%	52	57.80	51.5	2.82	2.0
10yr	26%	149	111	2.000%	38	37.51	29.3	5.26	5
On the run 5yr	32%	121	82	-9.00%	39	40.98	41.0	4.65	4.
S9 forward	22%	. 152	118	26.00%	34	26,06	19.6	4.29	4.
IG15	35%	111	72	-12.00%	39	41.94	46.5	3.8	3.1

Spread compressio	spread 03/01/2012	spread 27/03/2012 [Duration chge	Spread chge	Duration adjusted	Beta adjusi Dur1	Dur	r2
		89		81	101.37	79.5	1.44	1
		124	-9.00%	65	69.42	45.0	3.23	3.
,		145	20.000%	50	43.97	26.3	5.54	5.
1			0.04	58	56.69	40.0	4.38	4.
		160		46	30.54	16.9	4.08	4.
	48% 34% 26% 34%	48% 170 34% 189 26% 195 34% 173	48% 170 89 34% 189 124 26% 195 145 34% 173 115	A8% 170 89 -21.00% 34% 189 124 -9.00% 26% 195 145 20.000% 34% 173 115 0.04	48% 170 89 -21.00% 81 34% 189 124 -9.00% 65 26% 195 145 20.000% 50 34% 173 115 0.04 58	48% 170 89 -21.00% 81 101.37 34% 189 124 -9.00% 65 69.42 26% 195 145 20.000% 50 43.97 34% 173 115 0.04 58 56.69	A8% 170 89 -21.00% 81 101.37 79.5	Spread compression spread uservisor Spread user

Component	Itraxx Main S9	CDX IG 9
10yr underperformance	8 Bp	1 Bp
Steepening ·	4 Bp	4 Bp
Duration effect	4Bp	10 Bp
Beta adjustment	8 Bp	7 Bp
Total	24 Bp	22 Bp

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JPM-CIO 0003549

CIO SYNTHETIC CREDIT UPDATE

IG9 can be proxied as a normal IG index of 117 names and 5 HY Names (MBIA, RADIAN, ISTAR, SPRINT, RR Donnelley):

- -The 5 names behaved like the whole HY market : they underperform the IG market and steepened a lot
- Their move relative to the rest of IG indices allows to explain most of the lag in IG9 curve but not all
- Yet 5yr IG9 outperformed by 3Bps, 7yr outperformed by 4 bps while 10yr underperformed by 2 Bps : the net P&L impact is -100M USD

5yr	compression	spread 03/01/2012	spread 27/03/2012	Duration chge	Spread chge	Index eq bp		index based th	ieo	
CDX IG9	61%	132	68	-23.00%	64	, , ,	64.00	64.0	0.97	0.74
RDN	60%	31.00%	12.48%		18.5%		15.18	18.82% -	0.24	
MBIA	28%	16.00%	11.49%		4.5%		3.70	9.71% -	4.26	
SPRINT	63%	5.80%	2.17%	IG tightening	3.6%		2.98	3.52%	0.09	
RRD	59%	4.09%	1.68%	55.00%	2.4%		1.98	2.48% -	0.06	
SFI	73%	12.62%	3.40%	simul	9.2%		7.56	7.66%	1.28	
% Index loss	55%	44%	51%	55.04%	31.39			-	3.20	

7yr	compression	spread 03/01/2012	spread 27/03/2012	Duration chge	Spread chge	Index eq bp	ĺ	ndex based ti	neo	
CDX IG9	409	6 140	88	-14.00%	52		52.00	62.0	2.82	2.68
RDN	349	6 52.00%	34.50%		17.5%		14.34	20.94% ~	2,82	
MBIA	149	6 36.00%	31.00%		5.0%		4.10	14.49% -	7.78	
SPRINT	149	6 21.00%	18.00%	IG tightening	3.0%		2.46	8.46% -	4.47	
RRD	209	4 15.00%	12.00%	45.00%	3.0%		2,46	6.04% ~	2.49	
SFI	12"	6 26.00%	23,00%	simul	3.0%		2.46	10.47% -	6,12	
% Index loss	215	4 31%	41%	35.12%	23,36			-	23,68	

10yr	,	compression	spread 03/01/2012	spread 27/03/2012	Duration chge	Spread chge	Index eq bp		ndex based th	neo	
CDX IG9		26%	149	111	2,000%	38		37.51	29.1	5.26	5.28
RDN		26%	66.00%	49.00%		17.0%		13.93	16.65%	0.29	
MBIA	•	10%	51.00%	46,00%		5.0%		4.10	12,86% -	6.44	
SPRINT		1%	36.50%	36.00%	IG tightening	0.5%		0.41	9.21% -	7.14	
RRD		3%	30.00%	29.00%	33,00%	1.0%		0.82	7.57% -	5,38	
SFI		19%	38.50%	31.00%	simul .	7.5%		6.15	9.71% -	1.81	
% index los	88	14%		27%	27.91%	19.26				20.48	

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CIO SYNTHETIC CREDIT UPDATE

Core Credit Book: The devil in the details

1-The steepening of the IG9 HY names was more aggressive than the whole HY market: this result in an underperformance of 80M USD

OTR HY tightening	15.100%	IG9 10yr impact
IG9 HY block tight	14%	
HY off the run tigit	29.733%	IG9 7yr impact
IG9 &yr Hy block	21%	3.17
1 Yr HY tightening	45%	ig9 5yr impact
IG9 5yr HY block	55%	- 3.46

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CIO SYNTHETIC CREDIT UPDATE

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Core Credit Book: Summary

- 1- the Book has been missing an extra 35M CS01: this is a cost opportunity of 1.2 Bin due to the 40 bps rally in IG
 - this long risk shows naturally in the spread tightening and with the coming expiry of the short term S9 leg
 - it triggers a an increase in Var- stress Var- CRM- IRC-RWA across the board it we maintain the book balanced
- 2- the need to reduce VAR RWA and stay within the CS01 limit prevented the book from being long risk enough
 - as we bought protection on HY in the rally, we kept the 10%CS01 neutral to slightly bull
 - the slight bullish bias was dwarfed by the exposure in the forwards that kept increasing to protect the P&L
- 3- Thus a decompression trade was put on in order to remain market neutral, but it increased the CS01 very fast
 - as a result a decompression trade built up both in Xover and Main : it is a good trade that performed well
 - -yet, selling more protection in IG to balance the protection we bought in HY put us close to the CS01 limit
- 4- The long risk exposure would likely have missed the first 15 bps and the realistic P&L miss is rather 800M USD
 - despite the conviction on the rally in IG spreads, we needed to sell 10BIn in main and 30BIn in IG ideally which is a significant bullish bet
 - in early February and early March, when spreads widened back, the book would likely have suffered a weekly loss of up to 200M each time: this was not an acceptable P&L noiseSo the long would have been implemented slowly anyway
- 5- carrying this long risk exposure would have triggered some brutal P&L swings of 100-200 in early February and March.
 - the book was aiming at fine tuning the P&L noise while reducing the risks and the notionals on opportunities
 - the losses coming from the IG forwards were already wild, so we waited before being outright long risk for fear the noise would just increase more

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Core Credit Book: Storyboard

- 1- Starting point initially the book kept deleveraging in January reducing the shorts in series 9 5yr, removing the short risk in IG, adding short risk in HY. The aim was to create some options on the book as in 2011 to reduce aggressively on opportunities.
- 2- Mission : balance the book. :
 - a-it was slightly long risk since the 15th of January
 - b-some protection on HY was bought to reduce the loss on some HY defaults like Kodak and rescap
 - c- put some decompression trade to go long IG and neutralize the cost of carrying the protection in HY
- 3- Execution ; it went all bad....
 - the forward spreads started underperforming and this created a residual long risk exposure that had to be covered to reduce the Var and RWA
 - the notionals in series 9 were too large and the loss was way larger than the small directional gain (Jan and Feb)
 - The decompression in HY and Xover sped up in March and this put the book short risk and worsened the loss in the forwards
- 4- What Happened?
 - January : tried to reduce the short in the IG9 and S9 5yr but this pushed the forwards up and the potential was already 400M. We reported a loss of 130M USD YTD
 - February : tried to cover the HY downside risk to default and added to IG9 and S9 forwards in order to contain the P&L loss as decompression kept going. We reported a loss of 220M USD YTD
 - -March : the notionals increased in forward position uselessly and loss accelerated to incredibly high levels. The move was too fast and painful.
- 5- Plan

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SYNTHETIC CREDIT UPDATE

010

- put the book to sleep : to stop flagging our moves to the market
- maintain a long risk bias with on the run IG indices to keep a good carry in front of the upside on defaults
- buy up to 5BIn protection in IG9 0-3 10yr and 2.5BIn Main s9 10yr 0-3 to flatten the future default profile

J.P.Morgan

Core Credit Book: Risk Management and execution mistakes

- 1- The reduction of the 5yr IG9 and S9 early in January turned out to be a bad move :
 - initially, sell 5 yr on a roll basis vs on the run IG indices allowed to reduce the short, improve the carry, reduce the sensitivity of the book towards flattening and pre-empt a tightening in IG spreads without increasing CS01.
 - the market players quickly steepened the S9 curves starting the underperformance of the forwards : because the slight long risk bias was insufficient to cover the loss, we added back some flatteners to correct the hit.
- 2- The Kodak default triggered a second wrong move :
 - The loss was 50M and we started covering the risk in February by selling HY14-HY17 indices that contained MBIA, Radian, MGIC, ISTAR given that RESCAP risk to default was growing.
 - However, by selling those series and targeting the "mortgage & insurance" related names, we aggravated the underperformance of the IG9 forwards because they contain MBIA, Radian and ISTAR
 - As a result, those names underperformed the whole market. Thus the decompression trade worked but the IG9 forward especially underperformed in the rally and this is where the main long risk of the book is.
- 3- The Xover / Main decompression trade....
 - Due to the need to contain the RWA-Var complex, we sold protection on main while buying protection in Xover
 - This was a way to profit from either a recovery in Europe IG space without
 - The decompression in HY and Xover sped up in March and this put the book short risk and worsened the loss in the forwards
- 4- What would have happened if none of these bad moves were initiated?
 - The decompression would have happened anyway and the forward underperformance may have been twice smaller or down 750. All these mistakes induced an increase in the forward positions to contain the P&L hit.
 - If the book had gone long risk fully, the Var would have increased and the RWA as well: likely 10-15 Bln RWA
 - -The carry would have improved and the book would have had twice a weekly drawdown of 200M

J.P.Morgan

UPDATE

SYNTHETIC CREDIT

010

Transcript of 5725474620132382965

Participants: Javier Martin-Artajo

Irv Goldman

Goldman

Hello Hi Irv

Martin-Artajo

Goldman

How have you been?

Martin-Artajo

I'm good man. What's up?

Goldman

Ina just called me. She was curious at me....

Martin-Artajo

Sorry I can't hear you very well

Goldman

She was curious if you had any range of estimate about what the day is going to

look like. I know you said 2.

Martin-Artajo

What do you mean 2. Do you mean 2 your time?

Goldman

Yeah

Martin-Artajo

What time is it now?

Goldman

It's 12. She just wanted to --

Martin-Artajo

I don't have that yet, unfortunately. I don't have it Irv. I don't have it. It is not looking good. I don't have it yet...um, it is just that it is illiquid, you see. The

market is I don't know --

Goldman

I know, I think she is just concerned about --

Martin-Artajo

I just don't want to... I just don't want to... I would love to tell you that the number is, I don't know, 40 to 50 million. I don't know. I don't think it is going to be as small as that. Looking at the numbers that Venkat has and the spreads, the numbers look wide. If I have estimates to make, I don't want to do that yet. You see, it's very weird close, let me explain what is going on here. We are a bigger player in this market, we are a relatively big player, we are not trading here, so that is positive in the sense that we are not increasing our positions, but negative in the sense that a bit of

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the spreads are wide and they want to see what we are going to do on the books. Since we have two to three trades that we are here and are checking right, I don't want Bruno to trade, he needs to trade a very small amount just to get the mark, that's fine, but I don't want to really do much and I want to delay that as much as possible, right.

Most of what happens in our book has to do with the US market and less in the European market. Most of the P&L issues are on the investment grade in the US, and not as much on the high yield in the US, and not as much on the European ITrax positions. I need a little bit more time. Sorry about that. Sorry to not know what it is.

I have no new info, um I have been on the phone quite a lot to be honest with you. I do not know what Ina has been asking, but she has been asking quite a few things to Achilles and I think it is related to something we mentioned on our meeting this morning in terms of what I think the improvements are on capital and how much it is going to be reduced for the quarter end and how much does the reduction of the book look like. I was just speaking to Venkat about that. I only have rough numbers here of what that is going to be because _____ needs to run this process.

The reason I optimistic that the number is going to reduce. The delta has been reduced by about 12 and a half percent by looking at what we've done, so we should get an improvement on that, on the IRC. I think that is about right. That is what I am hoping. That is what I told you at lunchtime. I think that is going to be the same for the February number and for the March number. That will be an average. I am not sure exactly how we are going to calculate this. There will be an improvement from the number that you had. Now, that is.

Ina asked Achilles. Tell me if I am wrong, I am triangulating here as I just discussed this with Achilles and what I think Ina meant. That still puts in a position that we still have to do. No matter how much I can improve this on the second quarter on the model with Venkat. We can make some improvements because I think we are going to get some help to do that. Again, the numbers are not going to look somewhere in the region of what we need to reduce by quarter end if we don't do anything in the book.

What I am working on for Tuesday is actually two sort of plans. Plan A - the book stays the way it is with the best improvements that we can get and it has positives and negatives. Or we need to actually reduce the RWA by doing something here and has positives and negatives. So that's kind of what I am working on.

Goldman

Yeah I know

Martin-Artajo

The number for year end is going to be reduced, probably by 5 billion given the natural reduction of duration of the book, which is something I told Achilles how much do you think that would be. Well, if I give you a rough estimate that should be 20 percent of the book since we have lost a little bit of the first quarter so it probably going to be something around 15 percent. You will get another benefit of

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let's say 5 or 6 billion, just from that. If we can get 5 from that, another 5 from the model and 3 from what I have done. Reduces from 13 the number you mentioned yesterday. I know that this still not great, but it is a number that is a little bit more palatable so that whatever Plan B is and there are a number of different things that we can do in Plan B that gets us to where we want to be.

That is what I am working on now. And uh... I think I am getting good help from you guys, from Venkat. I like this guy, he is practical, think he understands the issues. Communicates well, said he is okay lending us help from that. Olivier is going to work exclusively for us for three months, right. He is going to sit on the desk and coordinate all of the things I am trying to do with me, you, Keith, and

I think he is going to do that, think that is great, have someone to look in depth in the book, that has enough experience to do that, he has done that himself. I think this is good news.

I think John Hogan spoke with Ina and maybe Achilles, I don't know who. And it is okay, Venkat is fine.

I think this is good news. Doing as well as we can. I am sorry I created this headache for all you guys. I did not expect it to be this way.

Goldman

We are a team. You know, we are a team.

Martin-Artajo

I know you are helping me. I cannot tell you how good everything else here is. The [____bonds] in France, I am going to give you something that will shock you, are trading at 55 bps. Something that was trading just 120 when we marked the book yesterday, we were up like 700 million.

As I remark today, we are going to be up another 300 or 400. It is just incredible what is happening here in the last three days on secured credit. So, I have very bad news on the synthetic book and good news on the rest of the portfolio, which is incredible to see how much the view that we had, the very strong view that we had since the end of November in terms of the solution of the ITRO the loading up in the book. Obviously Ina helped us with this, obviously. She gave us the blessing to buy as much as we could. But, I think it is more than we thought this effect, the portfolio, I think we need to...

Goldman

So what are you doing? Are you marking at the other 300?

Martin-Artajo

No, I am not marking. I have not had the time to do that and it is not mark to market, which is not helping us with the problem that we have. That is why it doesn't matter if I mark it or not because it is like a first

Goldman

Right, I know.

Martin-Artajo

So, the gains that we have on mark to market are probably going to be somewhere in the 60 million, but Ina told me not to consider that. She wanted me to give you the number of what the book here does that Irene adjust that.

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If we have a little bit more money in the book, so be it.

Goldman You still don't know if it is minus 50 or minus 150?

Martin-Artajo I don't know, man. I have a bad feeling about a bit or respect here, ok? I think we

are going to show a hundred --

Goldman You think the worst case?

Martin-Artajo Don't say anything to Ina yet, please, because I am just telling you. We are not

trading in the market, ok. There is one position here that matters. I mean 3 bps in

that position will explain 100 million.

Goldman I know

Martin-Artajo The issue is that the market is very sensitive to --

Goldman If we get what you are nervous about, where do you think it could be? If we get

what you are nervous about, where do you think it could be?

Martin-Artajo Could have a very bad number, could have 150. Because I am not going to defend

it. I am not going to fight in the street and increase a position create a problem that we created last quarter. I'll explain that on Tuesday. We should have stopped

doing this three months ago and just rebalanced the book.

Goldman There are a lot of things that I wish I wouldn't have done in my life.

Martin-Artajo Exactly

Goldman We are all just trying to be supportive. Need to move forward. By the way, I sent

that email about the vacation stuff because I think there's just... When you consider the strategy, we are going into the holidays. I don't know what people's vacation schedules are but if people are not around, I mean like, and something

goes on, you know, I think it is going to be an issue.

Martin-Artajo I don't understand what you are saying

Goldman I don't know what people's vacation schedules are there because we are going into

Easter. This is one of these all hands on deck sort of things. So I am sure it is going to come up as a question when you go into strategy, "everyone is going to be

around, aren't they?" I just don't want you to be...

It's you and Achilles. It is your business. I am just saying you should be sensitive

to that because I think people...

Martin-Artajo You mean that I should be in the office?

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JPM-CIQ 0003558

Goldman Um, I think you guys should discuss how you are going to handle it, right?

Martin-Artajo I don't understand what you are saying. Of course I am going to be in the office

Goldman I am just saying I don't know if Bruno is planning on vacation. I don't know what

it is. You guys just have to consider that. When you're like... I am sure it is going to be a question that comes up in the strategy session, "we are going into the holidays, people are going to be here, right?" You don't want to say, no, these

people are on vacation

Martin-Artajo No, there's no one going on vacation. I am here, Bruno is here. You know, Olivier

is going to be here.

Goldman I am just being a risk guy and I wanted to make sure you thought of everything

Martin-Artajo I am staying here. I am not going skiing. I am not going anywhere. I am not going to let anything, you know, derail this. This is a big problem I have. I've had this problem before. Before you came, we had a problem similar to this in the beginning of '09. I don't know if you heard about this. It was almost as bad as

this. No man. Ina wanted us to do a big deep dive. I am working on a deep dive. I

am going to really be open and explain everything that's gone.

There are positives and there are negatives. There are things we have done, there's a post mortem I'm doing. And then we are going to finalize with what the plan is. So we, that's what I am working on. Of course I am very sensitive to that. I am going to present it next week. It is going to be... Obviously Achilles will be here. I am going to be here. Don't worry, we are not going to be calling in from the Bahamas and seeing how it goes. Don't worry about that. I am too much of a

professional not to...

Goldman I am just double checking. Sometimes there is oversight. I sent it just because. I

sent it just like, duh thing. You just never know. Duh, you know, of course.

Martin-Artajo Of course. You are getting into something that I think is important that you know

about this. There is no question that it doesn't matter that our books are up everything except this book. What matters is that I need to make sure that this book is in good shape because this is an incredibly important thing. So, I am not going to go on holiday from now until I sort this out, even if it is in the summer. I'm not, I'm not, this is my priority and... I am not going anywhere. I told this to

my wife. I told this to everybody. The team here is not going anywhere.

Goldman Right. Ok. That's good, I am just double checking. It is not like anyone here said

anything.

Martin-Artajo I am not taking this lightly just because the rest of the books are making a fortune

here and are TRR here is huge. I mean...

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Goldman

The only thing anyone here is focused on right now is this.

Martin-Artajo

This is the only thing I am focusing on. This is the only thing that matters. I am only looking at the bad. I am only looking at the problem that we are having with this book, which is a problem and it is a problem that I am aware of this problem. This has happened to me before and anyone who takes positions the size we have has gone through that. Because you know, it is funny that you say that because Chris was here and we had dinner with her and her husband and Achilles just a couple of days ago and she told us about when she has had two or three blowups in ___ and she was saying ok man, well this is what I did then, this is what happened, this is what we needed to do, and this is what you need to make sure that Ina helps you. And all of the things. She told us a lot of things that... she gave us good advice actually. She gave me good advice at least.

Goldman

She's been through the war zone.

Martin-Artajo

She's got three blowups. I am only on my second blowup. She is ahead of me. I am doing my best.

Goldman

I know you are, I feel for you. It is horrible going through this.

Martin-Artajo

It is horrible. I hate it, ok because I have a great track record here and I am relaxed. I know that you were asking me the other day if I was very emotional and I am not. It is just that I wanted her to know from me that the tension I had from trying to coordinate with QR, trying to coordinate with the IB, trying to coordinate and make sure that I communicate this to all of you guys, making sure my team doesn't melt down because they are used to winning so they are... It has been a very, very tough two weeks. It has made us stronger. As usual, these things make you stronger, makes you more of a team. We're asking for a lot of help from you guys, we thank everyone that is helping here. Trying to take securities gains.

I think we are a team. Maybe this helps improve our transoceanic relationship. I guess maybe this helps. To make sure that everyone helps where they can. I am getting a lot of help from you guys in New York. I am getting a lot of help from QR. I am getting a lot of help from John. We feel that you guys are helping us. We do

I know that Ina is helping here. She has seen this many times. Ina really has seen blowups more than anybody I know. She knows how stressful it is, how bad you feel about it and how rational you need to be about this and not become an emotional...just saying things as they are. What is the rational thing to do. What is the next move, forget about what you've done, Forget about mistakes. I am working on that, I will have a presentation on that.

The minute I have an estimate, I will let you know. I will call you or send you an email.

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Goldman

Thanks a lot, bud

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CALL # 5601530708350439949

MR. GROUT: [Background chatter] Remi, I can't f*** it up, but the system's base is a real mess. You know? If I say today –

MR. IKSIL: Hello?

MR. GROUT: Yes, Bruno?

MR. IKSIL: Yes.

MR. GROUT: It's good. I found the e-mail of Javier. I found Javier's e-mail. So you can change that thing.

MR. IKSIL: Okay. (inaudible).

MR. GROUT: Go ahead tell me where should I put -

MR. IKSIL: Yes.

MR. GROUT: Tell me where I should take the reserve?

MR. IKSIL: If you can avoid doing that screwed-up thing ("ce truc deconne") you can really stay with (within?) bid-ask. It's better you see since you don't have a reserve, you see?

MR. GROUT: Uh, for the United States we're back to the bid-ask on the on-the-run ...

MR. IKSIL: Very well.

MR. GROUT: ... on both ICE and IG. [I cannot make out these words exactly – phonetically, it sounds like he is saying "sur les etats-unis on est revolu sur le bid-ask sur on-the-run sur 'both I-SAY I-G' – I interpret this to mean, most likely, "we're at bid-ask on the on-the-run ICE and IG," but that's not 100% clear.]

MR. IKSIL: Very well.

MR. GROUT: And for Europe if you want I can scratch out two BPs on the crossover.

MR. IKSIL: But you see what I mean? This is a little at the limit. We should probably do something cleaner with a ... you see ... a lesser result ("un resultat moins ..."). You see what I mean?

MR. GROUT: Okay. But if I take off -- I can take off four BPs on the crossover.

MR. IKSIL: Yes.

MR. GROUT: Normally - normally it's a market where we are just about (sounds like "dans les guis" - but I don't know what that would mean) at the same time regarding main and crossover.

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MR. IKSIL: Okay, then do that. Do that and we'll see. Okay?

MR. GROUT: Yes.

MR. IKSIL: Because this costs 10 "boules" (apparently a unit of measurement of money – we've heard this from Bruno before, I'm not familiar with the term), that's nothing you see.

MR. GROUT: Okay. Okay.

MR. IKSIL: I'm sorry to ask you to do this. But I prefer to do it this way. It's cleaner, you see. And weare "dans les clouds" (another expression we've heard, perhaps to mean "blind in the market"?)

MR. GROUT: I must look into this because...

MR. IKSIL: You see, now it's okay. I have the connection. I will validate it for you right away. Okay?

MR. GROUT: Okay, that's good.

MR. IKSIL: Okay.

MR. GROUT: Very well. We'll talk later. Ciao.

MR. IKSIL: Yes, thank you. Ciao.

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From: Martin-Artajo, Javier X < javier.x.martin-artajo@jpmorgan.com>

Fri, 30 Mar 2012 19:09:19 GMT

Goldman, Irvin J <irvin.j.goldman@jpmchase.com> íO:

Subject: Fw: Any better numbers so far ?

Redacted by the Permanent Subcommittee on Investigation

---- Original Message ----From: Grout, Julien G Sent: Friday, March 30, 2012 08:07 PM To: Martin-Artajo, Javier X Subject: RE: Any better numbers so far ?

no, the market has been very quiet, with very few updates in tranches. still watching.

-----Original Message----From: Martin-Artajo, Javier X Sent: 30 March 2012 20:06 To: Grout, Julien G Subject: Any better numbers so far ?

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Grout, Julien G <julien.g.grout@jpmchase.com> Fri, 30 Mar 2012 20:47:51 GMT From:

Sent:

CIO ESTIMATED P&L <CIO_CREDIT_P&L@jpmchase.com> ٠0:

CC: CIO P&L Team <CIO_P&L_Team@jpmchase.com>

Subject: CIO Core Credit P&L Predict [30 Mar]: -\$138,135k (dly) -\$583,296k (ytd)

Daily P&L: -\$138,135,170 YTD P&L: -\$583,296,250

Daily P&L(\$) YTD P&L(\$)

Europe Financials

-1,177,420 -37,813,322

Redacted By Permanent Subcommittee on Investigations

Europe High Grade

-7,897,632

302,489

Redacted By

Permanent Subcommittee on Investigations

US High Grade

-2,436,590

309,302,294

Redacted By

Permanent Subcommittee on Investigations

ÚS HY & LCDX

-44,527,024

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Redacted By
Permanent Subcommittee on Investigations

pical month end session in our space, with low volumes. Credit derivatives are better - after the bounce overnight (in stocks and CDX.HY) we opened only slightly tighter; European credit was initially wider - tensions around the Euro meeting in Copenhagen and the Spanish budget pushed spreads wider with FINS index substantially underperforming due to street liquidity and we were close to unch'd at that point. However some good eco numbers in the US, rumours of an OK Chinese PMI this week end and an apparently positive headline from Copenhagen (firewall size at EUR 900B - details to be checked) helped spreads recover.

Today the book is recording a loss as the month end price action is leading to further underperformance of the off the run forward spreads in series 9 (43M in CDX.IG and 30M in iTraxx). Furthermore the outperformance of CDX.HY last night after our close is translating into compression this is hurting our decompression position in the US by about 40M. Last, adverse tranche price action across the board is costing us 25M.

Trading wise, in CDX.IG and iTraxx we bought more long dated equity protection (50M), we sold small pieces of super senior tranches (350M) and we sold 550M protection in CDX.IG; in CDX.HY we bought pieces of mezzanine tranches (80M) - again all this for RWA purposes.

	30-Mar-	29-Mar-	28-Mar-	27-Mar-	26-Mar-	23-Mar-	19-Mar-
	12	12	12	12	12	12	12
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SFI 5y CDS	T						
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HY11	T						
HY14							
HY15							
HY16	T						
HY17	T.						
RESCAP 5y CDS							

Again, a lot of prices are still being framed and we are providing our best estimate.

JPM-CIO 0003569

Confidential Treatment Requested

From: Demo, Mark <Mark.Demo@jpmorgan.com>

Sent: Fri, 20 Apr 2012 13:01:10 GMT

To: Wilmot, John <JOHN.WILMOT@jpmorgan.com>

Morris, Andrew X <andrew.morris@jpmorgan.com>; Miller, Charles R <charles.r.miller@jpmorgan.com>; Bjamason, David <david.bjarnason@chase.com>; Hughes, Jason LDN <Jason.LDN.Hughes@jpmorgan.com> CC:

Subject: FW: Largest OTC Collateral Call Dispute Report plus Update on Collateral Disputes Reported to Supervisors

John – I wanted to bring something to your attention. This is a weekly report that we in IB Collateral produce that reflects the 10 largest collateral disputes for the week. You should know that in our top 10 this week we have quite a few disputes that are largely driven by mtm differences on CIO London trades. If I look at the total mtm differences across the CIO book facing the G-15 -- the mtm difference totals over \$500MM.

I have included a break out of yesterday's mtm differences by G-15 firm for only the CIO London credit book. The numbers in the own column show our trade count facing the counterparty. The numbers in the Diff MTM column show the total mtm difference across the CIO London trades facing the counterparty indicated.

We are in correspondence with your middle office (Rory O'Neil) who has taken our questions regarding these differences to your Front Office. We are awaiting a response. We are also doing mtm difference based on product type and underlier which we will have a little later today.

I am working from home today – I can be reached at 917-513-6157 if you want to talk.

Mark Demo | IB Collateral | J.P. Morgan | 383 Madison Avenue, 11th Floor, New York, NY 10179 | T: 212 622 5485 | mark.demo@jpmorgan.com

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From: Demo, Mark
Sent: Thursday, April 19, 2012 6:33 PM
To: Staley, Jes
Cc: Zinke, Steinar X; Sankey, Brian; Eichenberger, Stephen; Cox, Andrew UK; Christ, Michael; Eckstein, Peter C; Waller, Lawrence;
Ambrecht, Mary R; Hanrahan, Kieran; Brough, Richard; Magnus, Arthur, Keating, Karen R.; Bessin, Jean-Francois X; King, Jan A;
Bishop, Elizabeth W; Compton, Paul H; Zames, Matthew E; Masters, Blythe; Pinto, Danlel; Hernandez, Carlos M; Ricci, Paul A; IB

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Credit Risk Reporting; Scott, Nicola R; Robbins, Nigel; O'Rourke, Erin; PS Europe Collateral; Sims, Mark; Bruce, James A; Moores, Christopher D; Morris, Andrew X; Magalhaes, Augusto P; Miller, Charles R; Mofflit, Albert J; Cisz, Mark M; Poz, Thomas I; Rallan, Luke X; Lee, Louis TH; Winkelman, Amanda D; McDonagh, Daniel; Diaks, Marc X; Morzaria, Tushar R; Beneski, Beverly J; Gaunekar, Siddhi P; Thomey, William D; Robinson, Scott A; Willicox, Christopher P; Jhamna, Sanjay X; (igneron, Divier X; Munro Directs; Munro, Graeme; Rubenstein, Stuart; Leach, Mark; Rokkos, Angela; Nuttall, Kenneth E; Nandanar, Preeti H; Bogle, Andre A; Warnier, Daniel P; Bol, Simona; Dewson, Thomas X; Kane, Karoline; Healey, Gareth; Hurley, Jonathan X; Eichenberger, Stephen; Miller, Charles R Charles R

Subject: Largest OTC Collateral Call Dispute Report plus Update on Collateral Disputes Reported to Supervisors

Attached is this week's report detailing the 10 largest collateral call disputes on the OTC derivatives book. In order to reflect ongoing issues with some of the larger broker dealers, this report lists counterparts with which we are seeing consistent differences regardless of whether it is JPMC or the counterpart that is showing exposure.

The report also reflects updates on collateral disputes previously reported to Supervisors as well as those disputes tracking to be reported to Supervisors for April month end.

The RAG ratings in col O are defined as follows: Red = a dispute meets the age, size and risk rating criteria set out in the grid below.

Amber = the dispute does not meet all the criteria on the grid Green = either the dispute has been resolved since the date of the data cut for this report, or resolution is

imminent. cid:image003.jpg@01C9C8D7.D841BB00 2 Mark Demo 212-622-5485 Mark Demo | IB Collateral | J.P. Morgan | 383 Madison Avenue, 11th Floor, New York, NY 10179 | T: 212 622 5485 | mark.demo@jpmorgan.com JPMC INTERNAL USE ONLY Confidential Treatment Requested by JPMORGAN CHASE & CO.

From: Hogan, John J. <John.J.Hogan@jpmorgan.com>

Sent: Fri, 20 Apr 2012 15:34:20 GMT

Braunstein, Douglas <Douglas.Braunstein@jpmorgan.com>

Subject: Re: Collateral Disputes

Will find out.

From: Braunstein, Douglas Sent: Friday, April 20, 2012 11:31 AM To: Hogan, John J. Subject: Re: Collateral Disputes

is this the first time this has happened

From: Hogan, John J. Sent: Friday, April 20, 2012 11:24 AM To: Braunstein, Douglas Subject: Fw: Collateral Disputes

This isn't a good sign on our valuation process on the Tranche book in CIO. I'm going to dig further.

From: Goldman, Irvin J Sent: Friday, April 20, 2012 11:21 AM To: Hogan, John J. Subject: FW: Collateral Disputes

-----Original Message----From: Lewis, Phil
Sent: Friday, April 20, 2012 11:20 AM Eastern Standard Time
To: Goldman, Irvin J; Weiland, Peter
Cc: Kastl, Edward R; Bates, Paul T
Subject: RE: Collateral Disputes

Yes we are - we have collateral disputes from a number of counterparties (obviously on positions that aren't novated to ICE, so the tranches and ICE ineligible indices). Biggest are with MS and GS. First we heard of these was this morning (collateral process is done at a Legal entity level - when differences become big enough they reach out to MO & VCG). MO are checking all bookings and flows, with the desk and VCG (Jason Hughes/Ed Kastl) are checking marks. We are also trying to get some granularity by product

I'll forward you a note from the collateral guys.

This table shows differences by cpty and the Gross Absolute PV across all outstanding trades with each cpty

CP	Sum of ABS (Local)	Sum of MTM DIFF	%
BBVASA	856,948	-141,471	-17%
BNPP	1,427,575,108	17,698,254	1%
BOA	3,135,860,802	72,455,626	2%
BPLC	1,078,123,886	-427,385	0%

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CA	28,737,306	2,032,294	7%
CGML	49,019,323	-667,742	-1%
CITI	4,417,744,863	60,630,170	1%
CSI	421,675,999	27,289,077	6%
CSX	474,311,803	15,227,896	3%
DBKAG	3,080,139,893	56,005,118	2%
GSI	4,701,978,454	89,576,979	2%
HSBCEU	100,908,403	121,569	0%
HSBCUS	35,801,766	6,027,808	17%
MLI	6,244,692	-156,884	-3%
MSCS	4,124,528,028	114,910,670	3%
MSIL	222,395,628	1,724,699	1%
NOMURAIP	258,811,944	-2,974,037	-1%
RBSPLC	81,168,415	-2,667,779	-3%
SGCIB	3,004,157,922	16,658,449	1%
UBSAG	2,576,649,497	46,660,667	2%
Grand Total	29,226,690,681	519,983,977	2%

From: Goldman, Irvin J Sent: Friday, April 20, 2012 11:00 AM To: Lewis, Phil Subject: FW: Collateral Disputes

Please let me know.

From: Hogan, John J.
Sent: Friday, April 20, 2012 10:22 AM Eastern Standard Time
To: Goldman, Irvin J; Weiland, Peter
Subject: Collateral Disputes

Are you having any in the tranche (or index) positions?

Britton, William < William.Britton@morganstanley.com > on behalf of portrec ny < Portrec_Ny@morganstanley.com > From:

∠ent: Fri, 20 Apr 2012 19:34:20 GMT

To: Vaz, Daniel X <daniel.x.vaz@jpmorgan.com>; portrecny <portrecny@morganstanley.com>

CC: Port Recs <port_recs@restricted.chase.com>; Coll ICS <coll.ics@jpmchase.com>

Subject: RE: CIO vs Swaps Dealer Desk - MSCS vs JPMC

Daniel,

We completed our initial analysis and it shows two different prices used depending if the tranche is done through the CIO desk vs the JPM dealer desk. We have significant MTM breaks on positions facing the CIO trades whereas trades facing you dealer desk are very much in-line. We have initially looked through all iTraxx 7 and iTraxx 9 Series tranche positions and the associated index delta. Can you please have your risk group advise on this issue?

Thank you

William Britton Worgan Stanley | ISG Operations 1221 Ave of the Americas, 28th Floor | New York, NY 10020 Phone: +1 212 762-5670 ext. 5388 William Britton@morganstanley.com

From: Vaz, Daniel X [mailto:daniel.x.vaz@jpmorgan.com]

*ent: Friday, April 20, 2012 10:14 AM

J: portrec ny; portrecny

Ct: Port Res; Coll ICS

Subject: RE: CIO vs Swaps Dealer Desk - MSCS vs JPMC

Apologies for the delay Katie. I have sent a follow up email today. Will keep you posted. Regards,

Daniel Vaz | Collateral Management | Investment Bank | J.P. Morgan | T: +91 22 612 60408 | <u>daniel.x.vaz@ipmorgan.com</u> | jpmorgan.com | Collateral Group Mailbox | <u>coll.ics@ipmchase.com</u>

First Escalation Contact: Sneha Gupta | sneha.x.gupta@ipmorgan.com | +91-80 66763549
Second Escalation Contact: Saurabh Sharma | saurabh.x.sharma@ipmorgan.com | +91-80 66763162

From: Britton, William [mailto:William.Britton@morganstanley.com] On Behalf Of portrec ny Sent: Thursday, April 19, 2012 2:14 PM To Vaz, Daniel X; portrec ny; portrecny Cc: Port Recs; Coll ICS

Subject: RE: CIO vs Swaps Dealer Desk - MSCS vs JPMC

Daniel,

Can you provide us with an update?

om: Vaz, Daniel X [mailto:daniel.x.vaz@ipmorgan.com]

sent: Wednesday, April 18, 2012 2:11 PM

Toportrec ny; portrecny
Cc: Port Recs; Coll TCS

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by JPHONGAN chasts a co.

JPM-CID 0003603

Subject: RE: CIO vs Swaps Dealer Desk - MSCS vs JPMC		
Katie,		
We are checking with our MO. We will update you as soon as we hear from them, Regards,		
Daniel Vaz Collateral Management Investment Bank J.P. Morgan T: +91 22 612 60408 <u>daniel.</u> Collateral Group Mailbox <u>coll.ics@jpmchase.com</u>	x.vaz@ipmorgan.com	jpmorgan.com (
First Escalation Contact: Sneha Gupta sneha.x.gupta@jpmorgan.com +91-80 66763549 Second Escalation Contact Saurabh Sharma saurabh.x.sharma@jpmorgan.com +91-80 66763	162	
From: Schmidt, Katie [mailto:C.Schmidt@morganstanley.com] On Behalf Of portrec ny Sent: Wednesday, April 18, 2012 1:11 PM	to the winder possessed for the California	r of distance i night tenterior ()
To: Vaz, Daniel X; portrec ny; portrecny Cc: Port Recs; Coll ICS		
Subject: RE: CIO vs Swaps Dealer Desk - MSCS vs JPMC		
Hi,		
Can you also please confirm if there a single price used regardless of the desk it is booked	on? MS uses one cu	rve for front
office risk and collateral purposes regardless of which desk owns the positions.		
Thanks		
Katie		
Jm: Vaz, Daniel X [mailto:daniel.x.vaz@ipmorgan.com] Sent: Wednesday, April 18, 2012 12:07 PM To: portrec ny; portrecny		
Cc: Port Recs; Coll ICS Subject: RE: CIO vs Swaps Dealer Desk - MSCS vs JPMC		
Hi Katie,		
I'm on a business trip & hence my Mumbai number is not reachable. In case of any urgent query, ple Saraiya at +912261260404. All JPM references beginning with "44" would be booked by the CIO desk.	ease call the MSCS rec	owner Isha
Regards,		1.5
regards.		
Daniel Vaz Collateral Management Investment Bank J.P. Morgan T: +91 22 612 60408 daniel. Collateral Group Mailbox coll.ics@ipmchase.com	x.vaz@jpmorgan.com	jpmorgan.com
First Escalation Contact: Sneha Gupta sneha.x.gupta@ipmorgan.com +91-80 66763549 Second Escalation Contact: Saurabh Narma saurabh x.sharma@ipmorgan.com +91-80 66763	3162	
From: Schmidt, Katle [mailto:C.Schmidt@morganstanley.com] On Behalf Of portrec ny		
Sent: Wednesday, April 18, 2012 11:58 AM To: Vaz, Daniel X; portrecny Cc: Port Recs; Coll ICS		
Subject: CIO vs Swaps Dealer Desk - MSCS vs JPMC		:
Hi Daniel,		
ried calling you but couldn't get through. Is it possible to differentiate between the deal.	s done on the Swaps	s Dealer Desk v
the CIO desk for iTraxx Europe Series 9 tranches? I've noticed there are some different transfer of the CIO desk for iTraxx Europe Series 9 tranches? I've noticed there are some different transfer of the CIO desk for iTraxx Europe Series 9 tranches? I've noticed there are some different transfer of the CIO desk for iTraxx Europe Series 9 tranches? I've noticed there are some different transfer of the CIO desk for iTraxx Europe Series 9 tranches? I've noticed there are some different transfer of the CIO desk for iTraxx Europe Series 9 tranches? I've noticed there are some different transfer of the CIO desk for iTraxx Europe Series 9 tranches? I've noticed the contract transfer of the CIO desk for iTraxx Europe Series 9 tranches? I've noticed the contract transfer of the CIO desk for iTraxx Europe Series 9 tranches? I've noticed the contract transfer of the CIO desk for iTraxx Europe Series 9 tranches? I've noticed the CIO desk for iTraxx Europe Series 9 tranches? I've noticed the CIO desk for iTraxx Europe Series 9 transfer of the CIO desk for iTraxx Europe Series 9 tranches 9 transfer of the CIO desk for iTraxx Europe Series 9 tranches 9 transfer of the CIO desk for iTraxx Europe Series 9 transfer of the CIO desk for iTraxx Europe Series 9 transfer of the CIO desk for iTraxx Europe Series 9 transfer of the CIO desk for iTraxx Europe Series 9 transfer of the CIO desk for iTraxx Europe Series 9 transfer of the CIO desk for iTraxx Europe Series 9 transfer of the CIO desk for iTraxx Europe Series 9 transfer of the CIO desk for iTraxx Europe Series 9 transfer of the CIO desk for iTraxx Europe Series 9 transfer of the CIO desk for iTraxx Europe Series 9 transfer of the CIO desk for iTraxx Europe Series 9 transfer of the CIO desk for iTraxx Europe Series 9 transfer 0 traxx Europe Series 9 traxx Europe	de reference forma	ts on the JP trac
	*	

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IDS. Is that one way to do so?

Thanks Katie

Katle Schmidt
Morgan Stanley | Operations
1221 Ave of the Americas, 28th Floor | New York, NY 10020
Phone: +1 212 782-6886
Fax: +1 68 4 03-9831
C.Schmidt@morganstanley.com

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- II. JPMorgan Chase Fair Value Measurement Policy
- III. CIO Valuation Approach
- IV. Conclusions
- V. Appendix A 3/31/12 Position Marks
- VI. Appendix B Q1 Price Testing Analysis
- VII. Appendix C CIO Transaction Data

This memo summarizes the Firm's review of the valuation of its CIO EMEA credit portfolio in light of the current market conditions and dislocation that occurred in April 2012.

. Background

The CIO EMEA credit portfolio is made up of Investment and Core Credit portfolios¹. The Investment portfolio consists of available-for-sale investment securities, while the Core Credit Portfolio primarily consists of synthetic credit positions — credit derivative positions on various credit indices and tranches of those indices (the index and tranche credit derivatives portfolio). These synthetic positions were entered into to manage the market value deterioration in a potential stress scenario associated with investment securities held in the available-for-sale portfolio; the positions have changed over time depending on the Firm's view of credit risk.

CIO has a substantial presence in the financial markets, and the breadth and depth of its activity has generally given CIO a good sense of the market, with strong market contacts and market intelligence. In particular in these credit products, CIO executed a significant volume in the market and therefore had deep access to market pricing and color.

During January, February and through the first few weeks of March, CIO was buying, to add to existing positions, the risk of (i.e. selling credit protection) the following indices and tranches to reduce the short high yield credit risk position in the portfolio:

- CDX Investment Grade North America Series 9, 10 year and 7 year.
- ITraxx Main Series 9, 10 year and 7 year.

In addition, on April 6, the business press began reporting on certain of these positions, providing other market participants with some level of information regarding the Firm's positions and activity.

1

 $^{^1}$ CIO also has a North America credit portfolio, but that portfolio does not include synthetic credit positions and therefore is not subject to this review.

In April³, market activity and market prices for these credit derivatives changed significantly and a number of unusual trends were observed, including:

- The difference between cost of protection on investment grade indices and high yield indices in Europe and North America reduced significantly.
- The difference between cost of protection on short dated risk and long dated risk in a number of indices increased significantly. For a number of indices the cost of protection on the index moved inconsistently with the prices of protection on various tranches of the index. For example, for the iTRaxx Main Series 9 10 year during April:
 - Spread moves for the index itself implied some increase in losses due to increased correlation within the index.
 - o Price moves in the super senior tranche implied losses due to very much larger increases in correlation within the index.
 - o Price moves in the more junior tranches implied limited increases in correlation.

 $^{1} \mbox{These}$ trends began to emerge in late March, but developed and became much more significant in April.

These changes have been unusual compared to the historical relationship between investment grade and high yield indices, as well as the relationship between index and tranche exposures. Due to the complexity and the size of the Firm's positions, the effect of these changes, in conjunction with other market factors, on the estimated fair value of the Firm's positions has been significantly negative during April. As noted throughout this memo, relatively small variations in price can have a relatively large impact on the estimated fair value of the entire portfolio, given the size of the Firm's positions.

Size of Positian Data

The following table provides the absolute notional amounts (in USD) of these positions at various dates.

Table 1: Notional amount of CIO positions

Notional (5)	31-Dec 11	21-Jan-12	28-Feb-12	30-Mar-12	19-Apr-12
TRAXXMIN	63,877,901,370	76,235,846,930	97,848,010,020	118,982,003,490	118,505,911,681
CDXIG	(15,328,527,939)	(8,446,686,524)	6,220,451,026	54,767,087,520	56,054,146,920
COXHY	8,123,572,169	4,810,808,419	(1,016,924,933)	(7,739,557,433)	(7,557,874,933)
ITRAXX XO	(5,207,601,000)	(4,371,339,000)	(7,017,111,000)	(8,869,969,500)	(8,736.455,500)
ITRAXX FINSUB	(2,324,580,000)	(2,191,630,000)	(3,079,320,000)	(2,112,040,000)	(2,080,280,000)
CDXLCDX	1,856,414,586	1,825,651,611	1,796,888,575	1,796,888,575	1,796,888,575
ITRAXX FINSEN		(79,910 000)	(140,700,000)	73,150,000	100,706,250
SOVX WE				46,655,000	46,665,000
Total	50,997,179,286	67,783,741,435	94,611,293,688	156,944,227,652	158,129,707,994

Table 2: CIO's share of market volume

The following table compares the absolute notional amount of CIO's transactions in selected indices and to the absolute notional of street-wide transactions, in order to provide a sense of the relative size of CIO's activity in the market for the first four months of 2012. This data, as well as similar data from 2011, demonstrates two key points: 1) prior to late March 2012, CIO was a substantial participant in these credit markets, and 2) even without CIO's involvement (throughout these periods and in April after CIO substantially reduced its activity), the remaining street volume was substantial.

ITRAXX SERIES 9 7Y

Month	CIO	Notional Traded	Street Volume	CIO %
Jan-12	\$	993,000,000	\$ 6,181,250,000	16%
Feb-12		4,751,750,000	9,754,250,000	49%
Mar-12		775,000,000	8,325,375,000	9%
Apr-12		487,500,000	 5,004,150,000	10%
Total	\$	7,007,250,000	\$ 29,265,025,000	

ITRAXX EUROPE SERIES 9 10Y

Month	CIO	Notional Traded	 Street Volume	CIO%
Jan-12	\$	11,769,250,000	\$ 26,758,710,300	44%
Feb-12		7,244,900,000	15,205,250,000	48%
Mar-12		6,601,250,000	13,806,250,000	48%
Apr-12		338,750,000	5,570,925,000	6%
Total	\$	25,954,150,000	\$ 61,341,135,300	

ITRAXX EUROPE SERIES 16 5Y

HRAMEUR					
Month	CIC	Notional Traded		Street Volume	CIO.%
Jan-12	\$	26,440,500,000	\$	206,771,511,713	13%
Feb-12		36,359,500,000		216,991,196,801	17%
Mar-12		26,075,000,000		199,058,170,509	13%
Apr-12		25,000,000		13,785,754,578	0%
Total	\$	88,900,000,000	5	636.606.633.601	

CDX.NAIG.9 7Y

Month	CIO	Notional Traded	٠.	Street Volume	CIO%
Jan-12	\$	7,091,500,000	\$	55,936,345,841	13%
Feb-12		8,387,000,000		48,791,460,000	17%
Mar-12		2,017,000,000		41,738,540,328	5%
Apr-12		256,000,000		23,310,200,000	1%
Total	\$	17,751,500,000	\$	169,776,546,169	

CDX.NA.IG.9 10Y

Month	CIO	Notional Traded	 Street Volume	CIO %
Jan-12	\$	28,528,000,000	\$ 83,065,700,000	34%
Feb-12		20,032,000,000	48,049,133,456	42%
Mar-12		9,819,500,000	72,016,977,456	14%
Apr-12		677,000,000	31,722,763,000	2%
Total	\$	59,056,500,000	\$ 234,854,573,912	

Note: April data extends to April 26, 2012.

3

Given the size of the Firm's portfolio and the nature of the positions, the portfolio is sensitive to small changes in credit spreads. At March 31, 2012, the sensitivity to a 1 basis point move in credit spreads across the investment grade and high yield spectrum was approximately (\$84) million, including (\$134) million from long risk positions, offset by \$50 million from short risk positions.

II. JPMorgan Chase Fair Value Measurement Policy

General

Fair value is the price to sell an asset or transfer a liability in the principal (or most advantageous) market for the asset or liability (an exit price). The sale or transfer assumes an orderly transaction between market participants.

Data Sources and Adjustments

Valuation techniques used to measure the fair value of an asset or liability maximize the use of observable inputs, that is, inputs that reflect the assumptions market participants would use in pricing the asset or liability developed based on market data obtained from independent sources. Valuations consider current market conditions and available market information and will, therefore, represent a market-based, not firm-specific, measurement.

Where available, quoted market prices are the principal reference point for establishing fair value. Market quotations may come from a variety of sources, but emphasis is given to executable quotes and actual market transactions (over indicative or similar non-binding price quotes). In certain circumstances valuation adjustments (such as liquidity adjustments) may be necessary to ensure that financial instruments are recorded at fair value.

Bid - offer spread and position size

As further described in US GAAP Accounting Standards Codification Topic 820 Fair Value Measurement ("ASC 820"), the objective of a fair value measurement is to arrive at an appropriate exit price within the bid – offer spread, and ASC 820 notes that mid-market pricing may (but is not required to) be used as a practical expedient.

820-10-35-36C "If an asset or a liability measured at fair value has a bid price and an ask price (for example, an input from a dealer market), the price within the bid-ask spread that is most representative of fair value in the circumstances shall be used to measure fair value regardless of where the input is categorized within the fair value hierarchy (that is, Level 1, 2, or 3). The use of bid prices for asset positions and ask prices for liability positions is permitted but is not required."

820-10-35-36D "This Topic does not preclude the use of mid-market pricing or

.

other pricing conventions that are used by market participants as a practical expedient for fair value measurements within a bid-ask spread."

Effective Q1 2012, size-based adjustments are explicitly not allowed for cash instruments held by a firm. However, US GAAP continues to permit size-based adjustments for derivatives portfolios if an election is made to do so. Under its current business and risk management strategy, the Firm has not made such a portfolio election for this CIO portfolio, and so evaluates the value of its positions without specific consideration of their overall size.

Cut-off and Timing

US GAAP is not prescriptive regarding market close and timing of valuation. As an operational matter, the Firm allows desks in different regions to mark their books as of the close in that region, and requires that these cut-off practices be applied consistently.

III. CIO Valuation Process

Background

CIO's valuation process reflects how and to whom CIO would exit positions by typically seeking price quotes from the dealers with whom CIO would most frequently transact and with whom CIO would seek to exit positions, rather than looking for more broad based consensus pricing from a wide variety of dealers not active in these credit markets. In that regard, CIO's valuation process is consistent with that of a non-dealer investor/manager.

CIO necessarily uses judgment to identify the point within the bid-offer spread that best represents the level at which CIO reasonably believes it could exit its positions, considering available broker quotes, market liquidity, recent price volatility and other factors.

As noted below, CIO's evaluation of valuation adjustments has been based on market liquidity for the positions, rather than on the absolute size of CIO's positions. In the normal course of business, CIO will continue to review its valuation practices in light of its current risk management and exit strategies to ensure its valuation practices continue to represent CIO's estimate of exit price.

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The main source of information for pricing comes from the Bloomberg messages (pricing runs distributed by the dealers). Where available the desk collects them for all indices and translates.

Then depending on the product and availability of information the following processes are followed:

- For index products:
 - "On the run" indices (i.e. most recent series, 5y point): as these are the most liquid instruments, the front office typically uses the dealer runs.
 - "Off the run" indices: Front office looks at bid-offer spreads, volumes, recent price changes and recent transaction data, and the front office mark is established at an appropriate price within the bid-offer.
- For tranche products:
 - For liquid tranches: front office computes the best-bid/best-ask using the dealers' runs - the tranche is then marked using the mid of this 'best' market.
 - For illiquid tranches: front office looks at bid-offer spreads, volumes, recent price changes, relevant index prices, and recent transaction data, and the front office mark is established at an appropriate price within the bid-offer.

Timing of Valuation

CIO's valuation policy, consistent with the Firm's policy, is to value its positions as of the close of business in the relevant region. Although the broker quotes CIO receives are generally consistent with that timing, other data sources may provide data using different timing, as follows:

Source	Timing
Broker quotes ,	As received
Markit/Totem – NA indices and tranches	New York close
Markit/Totem – EMEA indices and tranches	London close
ICE – NA indices	30 minutes before New York close
ICE - EMEA indices	30 minutes before London close

VCG Independent Process

VCG independently price tests the front office marks at each month end and determines necessary adjustments to arrive at fair value for the purposes of the US GAAP books and records. The remainder of this section describes this process.

A. Pricing data sources

CIO VCG obtains prices from third parties as follows:

 Markit/Totem² – an independent service that provides prices for a wide range of products derived from the inputs provided by a number of financial institutions.

² Markit and Totem are within the same group. Markit provides data the credit derivative indices, while Totem provides data for the tranche risk of those indices.

- Dealer Quotes Prices from major broker dealers for specific indices and tranches
 of those indices.
- VCG must approve the sources for all market prices and other parameters as being reliable and applicable.

 ${\sf CIO\,VCG}$ also looks to actual prices at which ${\sf CIO}$ has executed recent transactions as an additional source of market information.

The following is a list of the dealers CIO VCG obtains quotes from on a regular basis for indices and tranches in which they have a reasonable level of activity:

- Citi
- Goldman Sachs
- Morgan Stanley

- Deutsche Bank
 Seiters
- JPMorgan (IB)
- BNP Paribas

- Credit Suisse
- Royal Bank of Scotland
- Nomura

- HSBC
- Barclays
- BofA/Merrill Lynch

These dealer quotations are received from a standing solicitation for price estimates for index and tranche positions. The number of dealer quotes received in any particular month generally ranges from 1-4, and is based primarily on which dealers choose to provide quotes that period.

 Deriving the best estimate of mid-market price (VCG mid-market price) for price testing purposes

Indices:

- For the more liquid indices, typically the on the run indices, VCG utilizes Markit as its
 primary source for the CIO VCG mid-market price. VCG will also look to broker
 quotes, but generally finds there to be limited differences to Markit data.
- For the less liquid indices, CIO VCG again uses Markit data as the primary source of
 independent data. However, given the reduced liquidity of these indices dealer
 quotes sourced by the front office are also used. Differences between the Markit
 data and the broker quotes are investigated, for example by reviewing actual levels
 of trading activity. The CIO VCG mid-market price is determined using the
 combination of the Markit data, broker quotes and actual trades executed by CIO.

Tranches:

 CIO VCG uses broker quotes as the primary source of data for determining the CIQ VCG mid market prices for the tranches positions. CIO VCG also obtains consensus prices from Totem from the Investment Bank³ (JPM IB). However, CIO VCG uses the

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 $^{^3}$ The investment Bank obtains these as it contributes as a dealer to the Totem consensus prices.

broker quotes, with less reliance on TOTEM data, due to the Firm's experience that the tranches tend to be less liquid than the indices and for any given position, only 2-3 dealers tend to be active in that tranche. Therefore, CIO VCG believes that the broker quote process is appropriately focused on the more active dealers for those tranches. This emphasis on broker quotes also reflects CIO's likely exit strategy, which is more likely to be with specific dealers active in these tranches. Where there are significant differences between broker quotes and TOTEM, CIO VCG will investigate the reasons for such differences, for example, by looking at the levels at which CIO has actually executed transactions, to validate the integrity of the broker quotes received.

C. Estimating the range of fair value utilizing price testing thresholds

- Price testing thresholds are commonly used in valuation to account for reasonable degrees of variance between valuation data obtained from different sources.
- These thresholds are generally established to represent normal bid-offer spreads for each product, with the goal of ensuring that the final mark used by the Firm is within the range of bid-offer spread after applying these thresholds.
- Price testing thresholds may be determined on a variety of bases (e.g., volatility of parameter, market depth and liquidity and pricing service spreads).
- CIO VCG is responsible for establishing the price testing thresholds used.
 The tolerance thresholds were consistent from 12/31/11 to 3/31/12.

D. Determining a book price

- The CIO VCG mid-market price plus/minus the price testing threshold set by CIO VCG per instrument (the VCG valuation range) is compared to the front office mark. If the front office mark is outside the VCG valuation range, the position mark is adjusted to the outer boundary of the range. Within the VCG valuation range front office marks may be used without adjustment.
- Irrespective of threshold levels, any difference between front office mark and the mid-market price may be adjusted, at CIO VCG's discretion.
- CIO VCG has not historically adjusted front office marks directly to Markit/Totem spreads/prices for the less liquid indices and tranches because:
 - Given its level of activity in the market, CIO has large amounts of specific transaction data that should be considered in determining fair value.
 - CIO has observed that broker quotes are indicative prices that are relevant to the valuation process, in addition to the consensus prices provided by Markit/Totem.
 - Based on CIO experience, CIO believes that the broker quotes received better reflect executable prices, and therefore represent

- important market data that should be given priority where available.
- CIO's experience is that not all dealers participating in the Totem
 process are active in the relevant products and that obtaining direct
 dealer quotes from the more active dealers for a particular product
 may better reflect executable prices.
- Markit/Totem prices are based on quotes by market makers acting in that
 capacity. CIO, like other non-dealer investors/managers, is not a marketmaker and it does not contribute to the Markit/Totem service. Furthermore,
 in the case of Totem the resulting data is accessible only to market makers
 who contribute to that service.
- O CIO has observed that the business valuation cut-off time may differ from the data provided by Markit/Totem. The combination of intra-day price moves on the last day of the month and the difference between the time when Markit/Totem fixes and the time when CIO closes its books can result in pricing differences that while small from a price perspective, could be significant for such a large portfolio.
- As additional analysis, CIO estimated that as of March 31, 2012, the sum total of the
 differences between the front office marks and the CIO VCG mid market estimates
 was \$512 million before adjustment to the boundary of the VCG valuation range
 (considering price testing thresholds) and \$495 million after adjustment.
- E. Apply necessary valuation adjustments
 - CIO applies valuation adjustments as appropriate for positions deemed to be less liquid. Generally, any on the run index (typically, the four most recent series) and associated tranches have been viewed to be liquid based on market activity, and appropriate front office and CIO VCG judgment. In addition, other indices and tranches continued to have sufficient market activity to be deemed liquid as of March 31, 2012 (for example, ITRAXX Main Series 9 indices and the CDX IG Series 9 indices).
 - As of March 31, CIO recorded liquidity valuation adjustments of \$188 million for the following:
 - o High yield series: 11 and prior indices and tranches.
 - o Investment grade series 12 and prior, excluding series 9 index.
 - CIO believes that the investment grade Series 9 index has generally traded similar to on the run positions because it is viewed as a market benchmark by investors.
 - The liquidity adjustments for the series 9 tranches (both high yield and investment grade) were recorded as of March 31, 2012 to reflect the decline in market liquidity

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by the end of the first quarter. The incremental liquidity reserve of \$155 million for series 9 investment grade tranches was applied for the first time at March 31 as a result of this decline in market activity.

- The liquidity reserve was calculated using CIO's standard liquidity reserve
 methodology and using spread volatility provided by JPM IB. This volatility varies by
 position in the capital structure, and is highest for equity tranches and lowest for
 super senior tranches: = [CS01] x square root (holding period) x [spread volatility
 - CS01 is the credit spread sensitivity to a 1 bps change in market spreads relative to position size
 - o Holding period JPM IB suggested max 120 days was used
 - Spread volatility provided by JPM IB; varies by position in the capital structure, and is highest for equity tranches and lowest for super senior tranches.
- As of March 31 a liquidity valuation adjustment was not recorded for the CDX North
 America Investment Grade and Itraxx Main Series 9 indices as each was viewed to
 be liquid. As noted in Table 2 above, trading volume in the Series 9 index continued
 to be relatively robust, including through April, without CIO activity in the market,
 and the volume of market activity excluding CIO has been substantial.
- Details of all adjustments taken to arrive at the fair value for US GAAP books and records are included in Appendix A.

F. Comparison to Industry Practice

The Firm believes that its valuation practices in CIO are consistent with industry practices for other non-dealer investors/managers. CIO, like other non-dealer investors/managers, relies more heavily on transaction-level data available through its own market activity, and its valuation process reflects its exit market and the participants in that market. In the normal course, the Firm evaluates its own business and risk management practices, and makes appropriate refinements to reflect its best estimates of fair value.

G. Review of CIO Q1 pricing information

- CIO analyzed its pricing data as compared to other available market sources and the results are included in Appendix B.
- As of the January, February and March month ends CIO compared its front office
 marks and final US GAAP book price for reasonableness to a combination of the
 Markit/Totem data, broker quotes and actual transaction data around the month
 end data.
- There was evidence that actual transactions and broker quotes diverged from Markit/Totem prices in some cases.
- CIO book marks on individual positions were generally within the bid offer spread.

 As additional analysis, CIO estimated the aggregate difference in the front office marks and the CIO VCG mid-market estimates. This difference (\$512 million), less the price testing threshold adjustment of \$17mm and less the liquidity reserve of \$188mm, was approximately \$307 million as of March 31, 2012, compared to the gross value of derivative receivables and payables of approximately \$8 billion.

IV. Conclusions

- CIO believes that its marks as of March 31, 2012 represents CIO's estimate of its exit price as of that date.
- In the context of its gross marks (approximately \$8 billion of derivative receivables and \$8 billion of derivative payables across ClO's portfolio), intra-day price volatility, and ClO's transaction data, ClO believes that it has made reasonable judgments regarding the prices within in the bid-offer spread that best represent ClO's exit price.
- The CIO valuation process is documented and consistently followed period to period.
- Market-based information and actual traded prices serve as the basis for the determination of fair value.
- CIO's book value, including the valuation adjustments, at March 31 2012 for the index and tranche credit derivatives portfolio is within the range of reasonable fair values for such instruments.

We have shared this memo with PricewaterhouseCoopers; they concur with the conclusions reached herein.

Appendix A - March 31, 2012 Position Marks

The following table provides the notional amount and fair values of the Firm's positions as of March 31, 2012, including the following: \$17 mm tolerance level adjustments, \$33 mm liquidity adjustment, and \$155 incremental liquidity adjustment.

(Note: subsequent CIO analysis noted that the required tolerance adjustment should have been \$12 million, but the following schedule provides detail of the original \$17 million estimate.)

						G Adjustment		
			Sum of Factored			Acres Carried Constitution	Incomes Sai	
	Protensió	Som of Abs Not		Sum of ACTMUSE	Threshold	Leguiday.		Toket
	ANX HC 6 1 A	184,555,364	0	101				14:
	ARX HE E 1 AAA	84,827,195	Q	0				ò
	ABXPE 6 2 AAA	26,030,351		(9)			-	:0)
	ABX NE 6.2 BOD	5,075,000.	2:0.000	184,727				184,777
	ABX PE 6 2 BHO-	39.325.000	317 975 0091	111,001,031				(11,047,091)
	ABX HE 7.1 A	47.742.773	.01	0				(11,04 ,541)
	ABXHE 7 1 AAA	224,750,632	101.	(0)			1	
		6.345,154	6348.154	6.120.712			:	
	ABX HE 7,1 888 35-100					٠,		6,120,712
	ABX HE 7.1 BBB-40-100	40.958.337	43 125,003	41,691,525				41 881,525
	CDX HY SO7 D7Y	294,000,000	0-	(942)				(962),
	CDX HY \$87 02Y 15-25	626,000,000	0'	25,494,631		i		25,494,021;
	COX HY 507 07Y 25-35	140,000,000	0	610,410				£10. € 10
	CDX HY 507 07Y 35-100	754,123,080	0,	6,280,655			1	8,280,655
	CDX HY S08 05Y	24,279,864,000	118.426.824.Q2C)	61,162,958		(1,392,677;		59,790,281
٠,	CDX HY 808 05Y 10-15	895,275,000	812,235,000	83,529,234		(73,307)		63,755,917
,	CDXHY 508 05Y 18-25	4,559,000,000	1,410,000,006	111,741,007		(124,000)		(11,495,615)
	COXHY 505 05Y 25-35	2,853,900,900	(25) 350 0004	10,182,681		(57.570)		10.124.702
		13,159,563,878	84,459,231	9,154,335				
	CDXHY 508 05Y 25-100					48.254		9,145,081
	CDXHY S08 87Y	5,798,420,000	179,760,000	(151,548)		(153,401)		(204,449)
	EDXHY S88 07Y 10-15	326,970,000	Jes. 010 (10/10/01)	(24,577,597)		120,012)		124 709,7501
	CDX HY S08 07Y 15-25	1,555,000,000	(\$55,650,030)	37,211,343		(157,497)	*	37,018,936
	COXHY 508 07Y25-35	902,000,000	1207, 502 5063	37,764,466		(287,167)		37,457,319
	CDX NY 508 07Y 35-100	1,242,270,388	(108,030 016)	10.826,032		190,5171		10,539,115
	COXHY S09 05Y	12,701,075,000	(5,695,900,000)	86,922,108		(1.024.25)		65.783.850
	COX HY 509 03Y 16-15	772,800,000	76,840,000	41,445,079		(14,406)		41,430,673
	CDX NY 309 85Y 15-25	3,225,000,000	1,055,000,000	9,798,678	* .	(319,391)		9,480,325
	CDX NY 509 95Y 25-15	1,215,000,000	(875,000,000)	33,500,243				
	CDX HY S09 057 25-100	3239,503,082	(2,050 6:0,274)	117,453,529		(244,6621- (815,6851		33,355,381
			9.234.582.000		4			116,597,661
	CDX HY \$10 95Y	21,259,098,000		(274,751,200)	:	(4,475,312)		(281.140.542;
	CDX HY S10 05Y 10-15	504,750,000;	(292,165,006)	(184,352 661)		(85,512)		\$158,1 99 ,593\$
.3	COX HY 510 95Y 15-25	3,663,000,000;	(2,043,000,044)	143,621,737		(1.025,2101		(49,630,645)
	CDX HY 510 05725-35	1,845,000,000	(555,000 (30))	44,425,075		(320,875)		44,164,202
5	C DX HY 5 10 05Y 35-100	14,352,199,827	13,800,101,1571	272,296,710		11,788,623;		270,501,884
•	CDXHY Sto 07Y	16,430,590,000	2,049,550,000	(85:564,737)		17,431,944;		168 116,6715
,	CDX HY S10 07Y 10-15	1 359 628 750	(1,359,826,299)	(5,167,333,552)		(7:8,565)	14	1.168 102,147
-	CDX HY \$10 07Y 15-25	1,805,000,000	(270,000,000)	(67,120,220)		161c.758	;	(47.579,885)
	CDX HY S 10 07V 75-35	1 015 000 000	(300,000,000)	37.619.202		(340,547)		37 478 635
	COXHY \$10.07Y 35-100	5.24 0.225,5111	(1,452,477,117)	151.845,470	• • • • • • • • • • • • • • • • • • • •	(1 722,255)	4.1	150,124,215
	COXHY 511 05Y	5,606,560,000,	(984,140,000)	33 242 683		(559.£17)		32,563,366
	CDXHY 511 057 10-15	432 402 500	(176,482,520)	13/2/67,5800		(430.637)		1377 0 (6,6 %);
	COXHY S 11 05Y 13-25	1,175,000,000	(1,015,000,000)	(14) 955,7895				
*	COXHY \$11 037 25-35	790,000,000	1357 007,000	22.457,926		(PED.OAS)		F142 913 740g
						(171,061)		22 16%,8£ F
	CDX HY 511 05Y 35-100	987,492,693	(2.102,123,600)	40,578 505		1815,9361		40,257,150
	CDXHY S11 07Y	3,931,270,800		77,531,118		1,311,502)		72,582 215
	CDX HY S 1 1 87Y 10-15	16,825 0.00	114.325.026	(14,510,284)		16 5310		f14 578 359;
	CDXHY \$11 07Y 12-75	30,000.000	10,000,000	10,632,380		12 1 5 785.		10,587 404
	CDXHX211 655 72-100	95,673,077	28 292 940 451	11,550,376		(144 du).		11 777 927
	COX HY S14 03Y	72,750,500	72,700,000	to see frest				10,745.241
7	CDX HY 514 05Y	12,558,569,000	17.073,530,060	\$192.918.56 to				(167 010, 0 4)
	CDX HY S15 BSY	9,982,270,000	9,520,550,000	(92.700,355)				317 270,3469
	CDXHYS 15 05Y	8,308,050,000	6,707,550,000	14,017,661				14,917,561
	CDX HY \$16 10Y	48,500,000	٥	0	*			
	COXHY 517 05Y	9,270,775,000	8,022,385,000	153,219,438				153,219,438
	COXIG HVOL SON 05Y	100,000,000		n'				
	COX 12 507 07Y	1,484,580,000	703,720,000	5,565,292	414,812	(423,421)		
	CDX #1 507 07 Y 07-10		1110 500 0001		-14.012			5.557,063
		250,000,000	11.15.000.0003	2,073,590		175,031	4.4	1,998,039
	COX+0 507 07Y 15-30	1,050,003,000	0	(5,6/0,227)				42'019'425
	CDX IG 507 07Y 20-100	3,657,595 448	0	23,291,616		*		23,221,616
	COX KG 508 05Y	868,000,000	٥	(0)				(0)
	CDX 83 500 07Y	658,616,000	(473,564,300)	(9,543,315)	1 903 627	1332,476	• •	(7,675,116)
	COX IG 904 07 Y 03-07	60,610,000		(410,014)	٠.	. 124		1670 9271
	CDX IG 508 07Y 07-10	1,280,000,000		(1.308,571)				(5,386,613)
			-		•			Fe/map/p_23

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*				<u>·</u>	CG Adjustmen		
	Turn of Abr Not	Sum of Factored National	tum or unwilled	Thershold	Laguidity	hickern execu	
COX 43 508 07Y 10-15	300 000 000	0	3,757,921	intrancia.	Capitally	rishalib	2752 951
COX KG 508 07Y 15-30	525,000,000	375,000,000	11.029,9875		(322,636)		(1.352 071)
CDX IG 508 07Y 30-100	3375,746,010		13,842,410				13,842,410
CDX IC NO9 05Y	116,298,890,477	31,675,380,000	25,177,80h				25,177,865
CDX IG SC# 05Y 00-03	6,009,760,374	2,719,245,188	497,344,852			1739,2215	496,605,800
COX 10 S09 05Y 23-07	6,712 030,000	1,395,005,039	\$19.05 Lillans			(47t 787)	(15) Sa, CGT.
CDX 35 509 05Y 07-10	10,587,000,000	2,045,000,500	111 607.2771			1996,6833	(12.352, 40.6)
CDX IQ 509 05Y 10-15	5,675,000,000	2.905,000,000	(45-9)(7,521)			1816 7309	g18 420 2601
COX#: 509 05Y 10 30	30,245,000,000	12,215,000,000	445 03 0 025			(2,742,776)	(88.475.711
COX 83 E09 05Y 30-100	36,342,317,045	269.414.692	17,001,994			(73,210)	16.928,753
11 COX IG 509 07Y	51,472,432,005	(32,772 835 955)	.151,437 63 0				(151, 132,021)
COX IC 209 01 A 00-02	3,469 513,118	308,485,799	142,230,754			5337,235)	141,993,469
CDX KS 509 07Y03-07	2,045,000,000	215,600,000	50,237,425			(231 404)	50,007,024
CDX #3 809 07Y 07-10	6,325,000,000 2,790,000,000	1,970,000,000	119,476,524			(369,592)	119,086,192
CDX 63 509 07Y 10-15	13,845,000,000		(12/12/4/673)			(1,00",017)	(50,679,327)
CDX IG 509 07Y 15-30	30,927,620,445	\$ 965,000,000 [11,004,221,970]	395 212 9 (2			67.041.05(8) 611.646.0355	1131,583,4371 294,744,814
12 CDX 15 S09 10Y	92,507,592,000	177,772 505,900)	(*,252,954,555)				17 167 160,5075
10 COX (3 509 10 Y 00-03	4.147.420.182	12 136 549 7811	(1,241,316,575)				11343 837 (84)
CDX13 509 10Y 03-07	2,590,000,000	jac, 500, 6 001	(5,245,423)			2816.002V	(5,255,622)
CDX 15, 509 10Y 07-19	3,495,000,000;		24,782,107			[1,585,6403	23,196,267
COX 43 509 10Y 10-15	3 510,000,000	1,980,000,000	117,037,861			(4,030,726)	112,939,133
CDX IQ S09 10Y 15-30	5,460,000,000	3.800,000,000	(32 628 894)			67746 3995	(34,879.884)
COX1G 509 10Y 30-100	20,423,263,263	(16,131,242,624)	773.069,559			132 666,4141	739,09%,182
CDX IG 8 16 05Y	9,918,563,474	0	14,227)				\$4.5272 ₅
COX 65 516 651 00-03	517,951,464		121				101
COX 12 % 10 051 03 07	250,000,003	v	(1.220.364	1			(4.950,364)
COA 63 810 05Y 07-10	90,000,000	, 0	2,044,469				2,044,489
CDX 83-510 07Y	265,232,000	0	•			N	0
CDX IG S18 10Y	1,546,800,000		11,639				17,639
CDX IG \$12 05Y	5.580,058 409 4.692,784,000		98,894 (86 ac9)		5 S.		98,979
CDX IG 613 05Y	8 E 99 C CO (100)	7,657,000,030	175,762,0651				(46,845)
COX IG G14 05Y	1,243,000,000	(357,250,000)					(78 701,025)
COX IG 514 10Y	604,000,000	1397,279 (194)	(657, 123) (6)				(657,420)
CDX IG 515 037 00-03	49,000,000	,				:	: (0)
CDX 515 05Y	23,298,500,000	17.520.500.000	\$154 4 51,38X)				(154,801,384)
C0x K1 \$15 05 7 00-03	235,000,000	195,000,000	54,974,977	(2,045)			54,917,135
COX 43 S 15 05 7 03-07	20,000 000	(20,000,000)	(1.976.360)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			(1,173,143)
CDX #3 S 15 05Y 15-109	100,000,000	1100 GHO 000y	6,539				4.539
CD> #3 815 TOY	254,000,000	\$4,000,000	377,531				377,531
COX IG S 16 05Y	21,701,250,000	18,476,759,000	(201,673,195)			* *	1106,028 (95)
COX 15 516 10Y	000,000,866,1	(302,001,010)	(3.131,66)1				13,151,6601
COX 15 517 057	27,717,200,000	(11.482, 93.000)	77,306,705			. ,	77,306,796
CDX (\$ \$18 05Y	15,181,000,000	(15 16, (25,356)	65 595,418				65,305,418
COXLCDXS10 05Y	5,750,674,000	1,154,956,000	(75,551,612)		(504, 129)		125,427 532)
COXECOX \$18 05Y 115-08	5.756,000	0					O.
CDX1CDX31005Y12-15	1,050,000,000	(110,320,330)	73.965,359	** :	(33,544)		23.011,815
CDX LCOX 518 051 13-190	4 002 206,711	12,851,636,5764	221,670,056	~	1 339,5041		220,130.557
CDA NO 399 (61)	47,143,000		(1)		4.40	.5	(11)
TRACKENSEN 510 05Y	87,888,891		(194) 6 340		. 1		1794
TRAXX FAISEN \$12 05Y	106,531,996	0.	6,340		;		6,340,
TRACK FINSEN \$13 05Y	1,302,353.651		(5,484)				1975
THAXX FINSEN STA UST	2,604,041,478	0,	(10.754)				(1.48.7)
TTRAXX PANSEN 816 05Y	2,893,675,347	65	24.823	,			24,823
TRACEPISEN \$17 05Y	573,941,129	(13,240,742)	(2,073.465)				(2,074.495)
ITRACK FINSUS 506 10Y	66,582,498	0	2 473		1		2,474
ITRACE FINSUS 607 05Y	177,109,143	123,843,445	1,176,165	(d 42: 303)	(11,170c)		322,939
ITRAKE FINSUB SO7 16Y	265,379,990	703.44.	\$2000.77				(1),543)
THEAXY FINEUR SON USY	1,574,010,241	703,111,174	10,656,606 740,6000		(231,641)		11,484,500
TH AXX FINSUS SOS 10Y	133,161,995 3,385 254,174	2.254.151.710	8,276,439	anin	11.025.2025		140,1201,
TRACEFINGUE SUP USY	189,747,413	A	120.072	20,220,000)	- KB24(482)		4,940,670
ITRAXX FINSUB 510 05Y	2,567,395 813	1,471,473 195	26 048 211	gravition	(977 (63)		24,913,264
ITRAXX FINSUR S 10 10Y	332,912,466	. 0	(1,216)				41 Jan
TRAX PHISUB S11 05Y	303,379,977	9	6,735				6,736
ITE AXX F WISUB \$12 05Y	2,010,963,187	1,033,360,361	62,100 061		(1,006,102)		61,045,001
TRAXX FINSUS \$13 05Y	5,046,902,810	181	334,757	٠,			334,752
ITRAXX FINSUB 514 05Y	4973712564	(1,737,603.1(3)	(145.466.062)	11,268,355;			M44,510,432
TRAXX FINSUB \$15 05Y	3,495,581,119	805,900,727	57,695,601	854,421			59,350,022
TRAXIFINSUB \$16 05Y	5 254,690,204	(1390)/05/848;	62,140,503				82,140,503
ITRAKK FINSUB 817 05Y	985,420,963	(965.471,463)	64,496,190			•	64,495,190
7RAXX HV \$07 05Y	128,730,601		۰				Q
TRACKINN SOS TOY	9,980,378,798	(100 709,059)	(5,179,023)	11,714,5471	1170,835;	,	16,822,490)
1TRAXX AN SOE 10Y 00-03	712,432,723	153,139,744	93,141,390		7.45,23.1		97,995,050
30-C0 YOF 30E PARKARII	892,205,467	(193 747 463)	(74,446,071)		(Mr9 at 2)		(74.798,943)
STRAKKSIN 585 10Y 06-09	3,142,693,683	47K \$37,9431	101,848,841		545 9335		101 803 002
FIRAXX IN 506 10Y 09-12	500 026,981	0	5,240,180		۰,		5,240,180
ITRAEX Nº1 906 10Y 12-22	3,396,969,910	0	47,943 520		0		47,943,520

				vcc	Afrestron	<u> </u>	
le storment	Sum of Aba NAS	Sum of Facilities	Sum of MTM USD	Duestoid	Lquiday	Incremental Legislity	· Yes
ITRAXX NN SOE IDY 22-100	2,635,984,005	. 0	25,776,827				25,776,87
ITRAXX.NN SQT 05Y	3,521,777,337	'n	0				
17RAXX MEI 507 10Y	2,670,074,150		7,488				7.44
TRAXX MY \$07 10Y 80-03	46,045,930	. 0-	7,147				7,15
TRAIX NN 507 107 06-09	479 393 982 239 696 991	40). 0	3,016,633		0	ě	4,009,41 3,006,6
TRACK MN 507 10Y 09-17	239,690,940		653,326		ö	re	3,036,63 453.70
TRAXX ME SOT 10Y 22-100	6 879 638,746	ő	14 800 2960		0		14,900,26
CTRAXX NAM SOE DSY	4.26),277,310		146			-	14.04,10
ITRAXX NP 508 05Y 00-02	345,728,967		/ £34:				1153
(TRAXX NN 508 05Y 03-09)	969,441,164	(6)	2,958,675		Ú		7 956,6
TRAXX NO. 508 05Y 06-09	372,851,254	ó	237,705		0.		237,70
PRACE MA SOE 057 08-12	159,797.994	0	270,066		٥		770.0
FRAXX AN 508 05Y 12-22	1,131,902,453	0	1,366,272				1,386,2
STRAKKIAN SON 10Y	5,124,189,007	. (*)	E 274)				יו ק
JTRAXX MN SOE 10Y 00-07	625 875,477	(9)	2.278,173		0		7.278.1
(TRAXX HAV 508 10 Y 0)-06	1.025.370.463		9.175.173				
ITRAX MN 508 10Y 06-09	1,025,370,463	rea:	16,016,944				9,125,1 15,046.9
TRAXX NN 508 10Y 09-12	4.037,562 540		72,835,178		៉		22,835,1
TRAXX HM 508 107 22-100	12 384 344 537		70.810.712		,	4.3	70,810,7
TRAKE MY 508 05Y	125 284,750,028	427.084.935.9339	207 435 231				207,439.2
ITR ACK NO SOS 05Y 00-03	11,180,676,600	3,928,387,353	1,024,601,825		1	11.977.5559	
FTR AXX AN 509 05Y 03-00	8.842,155,670	479,393,982	56,970.067			(242,413)	50 727,6
TRAXX NO SOE 05Y 08-09	8,428,344,185	1452 740 Mgs	96,588,364	•		(22: 205)	66,387,1
TRAXX MI SOS 05Y 09-12	6,431,669,760	(277 5-1,046)	13,441,538			(171,500)	13,206,6
TRAXX M1 S09 05Y 12-22	13,058,627.762	150.456,244	124 945,871)	(37,150).		(74,56%)	(21,030,25
ITRAKK MEZ 509 05Y 22-100	67,381,487,462	(0,494,774,947)	(12.5%,33%)			\$4,440,750	112 CH;52
TRAX NN 509 07Y	35,764,430,375	(0,676 899,953)		(6,304,704)	,		100,564,9
TRAKK NN 509 07Y 00-03	2,250,468,416	785,673,471	399,822,086 27,980,195			1621) 14.	394,953,8
TRAX NN 509 07Y 03-06	692,457,974	213,063,992	17,980,195 63,295,548			1256 1013	22,724,0
TRAXX NN S09 07 Y 04 09 TRAXX NN S09 07 Y 09-12	3,688,695,613 857,755,968	(238,486,901)	19,693,345 19,472,941			(40,554) (20,5424)	61,253,11
FRANK PIN S09 07Y 12-22	2,996,212,388	599,242,478	(1,134,465)			(525) (5e)	(8,771,76
(TRAKE MH 509 07Y 22-100	14,581,586,955	(14 Sat, 186 Site	73 844 533			(17,686,781)	56,158,20
TRAXX MIN SOS 10Y	55 722,479,490	117 254 341 5094	303,086,246	(2.1)3 5786		117,25,460, 1241.3	300,976 6
HRAXX NN \$00 10Y 00-03	6,459,588,118	(1,691,152.457)				(2.003.203)	
ITRAXX MAI SOU TOY CT SE	3,335,763,175	(6.644,280)	1,465,127			(12.775)	1,432.0
TRAXX NN S09 10Y 06-09	3,275,858,878	(508,025.04)	141 586,5913			(1,032,575)	
TRAXX NO 509 10 709-12	3,826,493,507.	(217.917.724)	495,75%,2797			(CHE 425)	176,690,63
TRAXX MN 509 10Y 12-22	10,200,438,615	1236,8037421	(10) 186 ; 11;	_		1456.50%	(30 542 82
5 TRAXX IN 509 107 22-100	59,576,018,774	(21,053,385,713)	1 75 809 4541			(45,932,594)	(173,543.44
ITHAXX HA STO OSY	15,508,571,099	0	:91)	٠. ,	,		19
ITHAKK AN STI 05Y	4,335,698,507		9,008				9,01
ITRAID IN S1205Y	5.122,191,534	0					117
ITR AXX MAY 5 13 05Y	19,772,338,461	(26,612,543)	1,097				1,61
TRAXX MAI \$14 05Y	5,272,002,157	3,740,604,710	(\$ 107 (517)				(755,82
TRACK MY \$15 83 Y 00-83	93,215,497	93,215 497	22,188,065		- 1		16.307.01
TRAXX MN \$13 037 63-06	13,316,500	(13,315,550)	201,215)				G*95 21
116 AKA MH 515 03Y 22-100	1,5 10,882,428	(345.194.965)	1.822.606				1.822.61
FRAXIN SISOST	23,173,705,347	14,940,724 (20)			į		(42 4 15,78
TRAXX MN \$15 05Y 00-03	332,912,469	332,912,488	1/5,486 448				175,446.4
(TRAXX MM \$15 05Y 27-100	2,596,717,403	(2.591.717.493)	13,929,469		1	-	13,929,46
TRAXX NN 51507Y	2,790,311,681	(1,175,510,795)			. :		(25,035.51
HRAXENN \$15 07Y 00-03	392 436,715	392,434,735					255,065,8
FFR AXX 581 \$15 07Y 05-06	259.571,740	259.671,740	63,553,224				63,553,2
TRAXX NO 515 07Y 22-100	2,803,299,900	£1/3,519,049	29,746,412; 82,791,554	45 424 550			(11.210.3c
STRANCEMENT STEET	52,154,827,029	2 173 219 349 419 320 209 5021	92.791,554 (15) 265 ±36;				62,791,5
ITRAXX MN S16 IDY	2,350,311,641	1,764,435,184	61 800,127				61,800,10
TRACIAN SIT 05Y	7,921,955 554	(7,49 £473, (64)	(\$3947.793)	12 107 9761			(66.953.70
CITAXX SCIVING S03 05Y	24,269 800	0	3,103			•	3,10
TRAIX SOUXWE SOC 0:Y	46 200 200	assessible comp	12 444 3 1 h ;				12A463
TRAX NO 507 05Y	147 014,155	U	(542)				
ITRAXX ACI 508 05Y	79.924.249	101	(2.1)				
TRAKK NO 509 05Y	239,696,991		(56.4)				136
17RAXX 80 S 10 05Y	155,248,012	9	4.046				4.0
17RAXX 80 \$11 057	469.806.102	٥	579			2	4,0
TRAXX 80 512 051	39 150 309		140				
(TRAKE NO S14 05Y	1,483,804,274	6,525,065	(30,726)	(119,115)		:	(149.54
(TRAXX XOS IS 05 Y	2,245,934,300	1,740,133,572	12,315,943				12,315,94
ITRAXX XO S16 05Y	9.971.394.827	6,953,876,040	177,653,351				177,683,36
TRAKE NO S17 05Y	1,651,245,938	119,848,490	5,043,372			3	5.043.32
Grand Total	1,353 4 53 019,379	91402,8491861		058-797,7 <u>2</u> 31-10	#4 3 ,7551 4	155 253.7711	(250,8-021
and the second s				,			
Assen		(62,650,0700) 41 (14,470,753,172)	7,987,328,315 (8,235) 1(6,276)	113616,4661 (83 14378,234 (81	365,2035	(73.171.71 3 1 (81.191.286)	7,878,974,82
Liabitates							

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Appendix B - CIO Price Testing Data

The following tables set out valuation estimates of various sources, as well as the final CIO price recorded books and records for the most significant positions within the portfolio. The table also includes notionals for the positions and whether CIO is long or short the risk of the index/tranche (i.e. whether it has sold or purchased credit protection respectively).

The following observations were noted:

- For all selected positions the front office marks were within the bid offer spread indicated by the broker quotes except for the iTraxx Main IDX S09 07Y.
 - o This was a result of a front office data input error that was identified and adjusted by VCG to the outer boundary, in accordance with the VCG price testing protocol. (The value difference between the original front office mark and the intended mark was approximately \$20 million, and the difference between the CIO book value and the intended mark was less than \$15 million).
- CIO VCG spreads/prices correspond to Markit/Totem data for the liquid indices and reflect the broker mids for illiquid indices and tranches.
- There are a number of instances where the broker-mid spreads/prices diverge from the Markit/Totem data.
- There are a number of instances where the CIO transaction data in appendix C show that actual
 traded spreads/prices diverge from Markit/Totem data in similar time periods. For example: iTraxx
 Main IDX Series 16 5 year at February month end, and CDX High Yield Series 10 7 year 10-15%
 tranche at January month-end.
- Average traded prices in the few days surrounding month-end are directionally consistent with the
 point in the bid offer spread in which the positions have been marked by CIO, as shown by Appendix
 C. In general, the front office marks, subject to liquidity adjustments, used for CIO books and records
 reflect information derived from numerous data sources available to CIO front office, rather than
 relying solely on any one single factor. For example:
 - Recent transaction data (same-day and recent day actual trades) may in some cases be viewed to provide more relevant and reliable information regarding current exit prices (see additional observations below).
 - o In some cases, differences between CIO book values and other market information such as Totem/Markit are created because of timing differences between the close of CIO's books and the close of the Totem/Markit data (see additional observations below).
- In certain cases, CIO executed trades on the last day of the month at a price that is different than Totem (and in several cases, was between the Totem value and the CIO book price). See table below for information as of March 31, 2012 (including average traded prices on March 30, 2012):

		*	Avg.
	Totem	CIO Books	Traded
CDX.NA.HY 15-25% S10 05Y	92,607	93.326	93,125
CDX.NA.HY 15-25% \$11 05Y	83.108	83.685	83.375
CDXNAHYIDXS1107Y	101.250	101.866	101.750
CDX.NAIG 0-3% S09 10Y	63.219	62.869	63.250
iTraxx.Main 0-3% S09 10Y	66.202	65.993	66.313
îTraxx.Main IDX \$09 07Y	129.000	122.657	129.000 *
iTraxcMain IDX S09 10Y	149.000	144,250	149.000 *

^{*} executed tranche reference trades, not stand-alone traded prices

- The difference between the various data points (FO, Broker prices, and Totem) are relatively insignificant on a price basis, when evaluated in context of:
 - Daily price volatility the following table shows that for most of the tested positions, the price difference between the Totem price and the CIO book price is less than the average daily price change during recent months.

		Aver	age daily pri	ce change	
	March price difference				
	Totem - CIO	Jan	Feb	Mar	Apr
CDX IG Main Series 9 (7Yr)	2.00	2.85	2.00	1.98	2.06
CDXIG Main Series 9 (10Yr)	2.25	2.87	1.73	2.00	2.26
CDX.HY 100 Series 11 (7Yr)	0.62	0.35	0.31	0.29	0.29
CDX.HY 100 Series 14 (5Yr)	0.25	0.30	0.30	0.28	0.28
CDX.HY 100 Series 15 (5Yr)	0.25	0.30	0.33	0.32	0.33
iTraxx.Main IDX S16 5Y	1.88	3.74	3.22	3.08	4.05
iTraxx.Main IDX S09 07Y	6.34	4.42	3.29	3.22	4.31
iTraxx.Main IDX S09 10Y	4.75	4.24	3.17	3,54	4.24

o Intraday price volatility – the following table shows three representative series and the maximum, minimum and mean prices during the day on March 31, 2012.

,		i i			
	_max	min .	mean	variation	% of mean
CDX IG Series 18 5 Y	93.000	90.750	91.910	2.250	2.4%
CDX.HY Series 18 5Y	97.188	96.750	96.950	0.438	0.5%
iTraxx.Main Series 17 5Y	127.625	122.750	125.115	4.875	3.9%

- o Potential timing differences CIO EMEA closes its books at the close of business in London, while some of the comparative market data is as of the close of business in New York. This timing difference may result in differences in reported prices.
 - For example, the market price on March 31, 2012 at 4 pm London time for the CDX IG Series 18 5 year was 92.88, and the market price at 9 pm (NY close) was 91.25, a 1.75% difference from the London close.

CALL CONTROL OF STATE	\$7.63 \$7.63 \$5,710 \$5,350 105.572 101,506 102.039 101.066 14.866 62.842 91,958 198.053 19.	102,125 104,893 \$1,750 119,250	FO 99 373 10.425 86.000 85.500 105.888 101.500 100.825 14.813 82.875 91.000 119.000 87.375 18.250 45.000	Stokey Bird 1 \$5,000 8,125 94,625 64,736 105,375 101,063 101,063 101,063 104,625 62,375 98,500 114,750 \$7,125 17,500	7627 7627 98 675 83,500 103 563 101,313 101,648 100,750 14,613 62 625 50 720 118,540 67 375	95.750 11.125 95.750 11.125 95.125 85.230 105.750 101.562 101.963 15.000 62.875 83.500 120.250 87.625 17.500	95,563 95,563 95,75 95,75 101,542 101,506 107,039 161,080 14,733 62,757 91,558 115,339 87,405	GO Books (Caugh) #5.384 10.542 25.951 26.435 105.640 101.270 101.539 100.625 14.785 62.001 54.550 67.509	4- Long Work - Short Wish) - 1965	sheets long long long long long short shert long long long long	But it Price	kowas p
XANAY 10-13 N 200 357 XHANY 15-25 N 310 277 XHANY 15-25 N 310 257 XHANY 15-25 N 310 257 XHANY 13-25 N 10 357 XHANY 13-25 N 10 357 XHANY 10-35 N 300 257 XHANY 10-35 N 300 257 XHAN 10-35 N 300 107	5,763 95,710 85,350 105,572 101,506 102,039 101,060 14,466 62,842 91,958 148,839 67,302 19,292 48,083 148,682	102,125 101,093	95 375, 10,025 86,000 85 300 105,888 101,500 100,602 100,823 14,813 52,875 51,000 119,000 47,375 18,250	\$1,000 8,125 95,625 64,750 105,375 101,663 101,500 100,562 14,525 62,375 39,502 114,750 67,125	7627 7627 98 675 83,500 103 563 101,313 101,648 100,750 14,613 62 625 50 720 118,540 67 375	95,750 11,125 95,125 85,250 105,750 101,563 101,975 100,975 150,000 62,875 93,500 120,250 67,625	95.563 9 583 95 706 95,275 101,506 107,029 161,080 14,733 62 797 91 058 118,839	95,384 10,572 85,851 85,435 105,640 101,370 101,539 100,625 14,785 63,001 54,850 122,650	1365 4841 -2882 -1915 -3905 -4408 12447 9915 2570 -2650 -34192	sheris long long long long shori shori sheri long long	Price Price Price Price Price Price Price Price Price Lipkoni Upironi Spread	lower api lower
XMANY IN-ISM SIG DY XMANY IS-25% SIG DSY XMANY IS-25% SIG DSY XMANY IS-25% SIG DSY XMANY IS-25% SIG DSY XMANY IS-25% SIG DSY XMAN ISO SIG DSY	95,710 85,350 105,572 101,506 102,039 101,066 14,846 62,847 91,958 118,839 67,302 19,202 48,083 148,682	101,093 \$1.750	10.425 96.000 85.500 105.888 101.500 101.600 100.825 14.813 62.875 91.000 119.000 17.375 18.250	8.125 95.625 54.750 105,375 101.663 101.500 109.563 74.525 62.375 99.504 116,750 67.125	7.52% 9% 675 83,900 103,563 101,313 101,668 100,750 14,613 67,625 50,020 118,540 67,375	11.125 95.125 85.250 105.750 101.562 101.675 100.938 15.000 62.875 93.500 120.250 67.625	9 583 95 706 e5,275 101,542 101,506 107,029 161,080 14,733 62 797 91 058 118,839	10,572 95,95: 85,435 105,640 101,370 101,539 100,625 14,785 63,001 94,850 122,650	-045 -2082 -1013 -3905 -4408 12447 9915 2570 -2650 -34193 -80980	long long long long long short short long long	Price Price Price Price Price Price Price Liptoni Uptoni Spread	higher p higher a higher a higher a higher a lawer a higher a high
X.MA.HV 15-25% S.10 GSY X.MA.HV 13-25% S.11 GSY X.MA.HV 13-1004 S.10 GSY X.MA.HV 103-1004 S.10 GSY X.MA.HV 103-11 GSY X.MA.HV 1	95,710 85,350 105,572 101,506 102,039 101,066 14,846 62,847 91,958 118,839 67,302 19,202 48,083 148,682	101,093 \$1.750	96,000 85,500 105,500 101,500 101,500 100,800 100,800 100,800 100,800 100,800 100,800 119,000 119,000 17,375 18,250	95.625 54.750 105,375 101.663 101.500 109.563 14.525 62.375 99.504 116.750 67.125	9% 675 83,500 103,563 101,313 101,668 100,750 14,613 67,625 59,020 118,540 67,375	95.125 85.230 105.750 101.563 101.675 100.938 15.000 62.875 93.500 120.250 67.625	95 708 69,275 101,542 101,506 107,029 161,080 14,733 62 797 91 958 118,039	95.95: 85.4.35 105.640 101.370 101.539 100.625 14.785 63.001 54.650 122.650	-2082 -1015 -3905 -4408 12447 -9915 -3570 -2650 -34191	long long long short short short long long	Price PAce PAce Price Price Price Laptoni Uptroni Spread Spraad	higher s higher s higher s lower s fames s higher s hower spi lower spi lower spi
X NAMY 1-3-2% S 1 0 5 Y X NAMY 25 - 100 N 3 10 0 5 Y X NAMY 25 S 10 0 N Y X NAMY 15 S 10 0 N Y X NAM 15 S 10 0 N Y X NAM 15 S 10 N Y X NAM 15 S 10 N S 10 N Y X NAM 15 N S 10 N S 10 N Y X NAM 15 N S 10 N S 10 N Y X NAM 15 N S 10 N S 10 N Y X NAM 15 N S 10 N S 10 N Y X NAM 15 N S 10	85,350 105,572 101,506 102,039 101,060 14,846 52,847 91,958 118,839 67,302 19,292 48,083 148,682	101,093 \$1.750	85 500 105 888 101,500 101,500 100 828 14,813 62,875 91,000 119,000 87,375 18,250	64,750 105,375 101,063 101,500 100,563 14,525 62,375 39,500 114,750 67,125	83,500 103,563 101,313 101,648 100,750 14,613 67,625 50,020 118,540 67,375	85.250 105.750 101.563 101.675 100.938 15.000 62.875 93.500 120.250 67.625	e9,275 101,542 101,506 107,029 161,080 14,733 62,797 91,958 113,039	89, 4,35 195,640 101,370 101,538 190,628 14,785 63,901 94,850 122,650	-1013 -3905 -4402 12447 9915 3570 -2650 -34193 -80980	long long long short short short long long	Price Price Price Price Price Price Lipkoni Uplroni Spread	higher s higher s higher s lower s fames sp hower spi lower spi lower spi
X NA.H 7 13-100 W 3 10 03 Y X NA.H 7 10 X 5 10 7 Y X NA.H 7 10 X 5 10 5 Y X NA.H 7 10 X 5 10 5 Y X NA.H 6 0 - 1 X 5 5 10 5 Y X NA.H 6 0 - 1 X 5 5 10 Y X NA.H 6 0 - 1 X 5 5 10 Y X NA.H 6 0 - 1 X 5 5 10 Y X NA.H 6 0 X 5 5 5 10 Y X NA.H 6 0 X 5 5 5 10 Y X NA.H 6 0 X 5 5 5 10 Y X NA.H 6 0 X 5 5 5 10 Y	105 572 101,506 102,039 101 060 14 846 52 847 91,958 118,839 67 302 19 292 48 083 148,682	101,093 \$1.750	105.888 101,500 101,509 100.825 14.813 62.875 91,000 119,000 97,375 18,250	105,375 101,063 101,500 100,563 14,525 62,375 39,500 114,759 67,125	103 563 101,313 101,648 100,750 14,613 67 625 50 0.20 118,510 67 375	105,750 101,563 101,675 100,938 15,000 62,875 93,500 120,250 67,625	101,542 101,506 107,029 161,080 14,733 62 797 11 958 118,039	103,640 101,370 101,539 100,625 14,785 63,001 54 850 122,650	.3905 .4402 12447 9915 3570 -2650 -34193 -80980	long short short short long long long	PAca Price Price Indenti Unitani Spread Spread	highers highers lowers fores howers howers howers howers
XMANYIDX 31 97Y XMANYIDX 314 95Y XMANG 0-3% 509 05Y XMANG 0-3% 509 05Y XMANG 0-3% 509 10Y	101,506 102,039 101,060 14,846 62,847 91,958 118,839 67,302 19,292 48,083 148,682	101,093 \$1.750	101,500 101,500 100,602 10,813 62,875 91,000 119,000 97,375 18,250	101,063 101,500 109,563 14,525 62,375 99,504 116,759 67,125	101,313 101,648 100,750 14,613 67,625 59,020 118,540 67,375	101 563 101 875 100,938 15,000 62,875 93,500 120,250 67,625	101,506 102,039 161,060 14,733 62 797 91 958 115,839	101,370 101,539 100,525 14,785 63,501 54 850 122,650	.4408 17447 1915 3570 -2850 -34193 -80980	iong shori shori shori long long long	Price Price Price Lipkoni Upkoni Spread Spread	higher i famel i higher i himer ap lower ap
X MANY IDX 3 14 05Y X MANY IDX 5 15 05Y X MAK G 0-3% 509 05Y X MAK G 0-3% 509 10Y X MAK G 0-3% 509 07Y X MAK MAK G 509 07Y X MAK MAK G 509 07Y X MAK MAK G X 509 10Y	102,039 101,060 14,846 62,847 91,958 118,839 67,302 19,292 48,063 148,682	101,093 \$1.750	101,509 100,825 14,813 62,875 91,000 119,980 67,375 18,250	101.500 109.563 14.525 62.375 59.500 114.750 67.125	101,648 100,750 1+,613 67,625 52,020 118,540 67,375	101 875 198,938 15,000 62,875 93 500 120,250 67 625	107,029 161,060 14,733 62 797 11 658 118,039	101,539 100,525 14,785 63,501 94,850 122,650	12447 9915 2570 -2650 -34193 -80980	shari shari shari long long long	Price Price Lipkoni Upkoni Spread Spread	lawer ; fawer ; higher ; lawer ; lawer ;p lawer ;p
ENANY IDX 513 B3Y XNANG 0-3% 509 63Y XNANG 0-3% 509 163Y XNANG 10X 509 167Y XNANG 10X 509 167Y XNANG 10X 509 167Y XXMANG 10X 509 167Y	101 060 14 846 62 847 91,958 118,839 67 302 19 202 48 063 148,682	101,093 \$1.750	100 828 14.813 62.875 91,000 119,000 47,375 18,250	100,163 14,525 62,375 99,500 114,750 67,125	100,750 14,613 67,625 50,030 118,540 67,375	190,938 15,000 62,875 93 500 120,250 67 625	161,080 14,733 62 797 91 958 118,039	100,52\$ 14,785 63,501 94,850 122,656	9915 3570 -2650 -34193 -80980	shert Shert long long long	Price Lipkoni Upkoni Spread Spread	Nighas Mwas Iowes ap Iowes Iowes
XNAIG 0-3% S09 05Y XNAIG 0-3% S09 10Y XNAIG 0-3% S09 10Y XNAIG 0-3% S09 10Y 92XMAIN 0-3% S09 10Y 92XMAIN 22-109% S09 07Y 92XMAIN 72-100% S09 10Y 92XMAIN 52-109% S09 07Y 92XMAIN 509 07Y 92XMAIN 509 07Y 92XMAIN 509 07Y 92XMAIN 508 509 10Y	14 846 62 847 91,958 118,839 67 302 19 292 48 063 148,682	9 1 750	14.813 62.875 91,000 119,000 97,375 18,250	14,525 62 375 59 504 116,750 67 125	1+,613 67 625 69 038 118,560 67 375	15.000 62.875 93.500 120.250 67.625	14,733 62 797 91 958 118,839	14,785 63,801 54 850 122,656	3570 -2650 -34193 -80980	iong long long	Lipkoni Upkoni Sprezd Sprezd	Nighas Mwas Iowes ap Iowes Iowes
XHAG 0.3% 308 00Y XHAG 02X 308 07Y XHAG 02X 509 10Y 10X 509 10Y 10X 509 10Y 10X 509 07Y 10X 509 07Y 10X 509 07Y 10X 509 10Y	62 8+2 91,958 118,839 67 302 19 292 45 063 148,682		62,875 91,000 119,000 67,375 18,250	62 375 59 500 116,750 67 125	62 625 52 020 118,560 67 375	62.875 93.500 120.250 67.625	62 797 91 958 118,839	63,801 94 850 122,650	-2650 -34191 -80980	long long long	Upkoni Spread Spread	lower sp lower sp
XNA,G XIX 309 07Y XNA,G XIX 509 10Y 20X,Main 0.3% 509 10Y 20X,Main 22-100% 509 07Y 20X,Main 72-100% 509 10Y 20X,Main XIX 509 07Y 20X,Main XIX 509 10Y	91,958 118,839 67 302 19 292 48 063 148,682		91,000 119,000 97,375 18,250	99 504 116,759 67 125	50 000 118,500 67 375	93 500 120,250 67 625	81 958 118,839	94 850 127.650	-34193 -80980	long	Spread Spread	lawer zp lawer zp lawer
X NA. G IDX 509 16Y 20X Main 0-1% 509 16Y 20X Main 22-100% 509 07Y 20X Main 72-100% 509 10Y 20X Main 7DX 509 07Y 20X Main 7DX 509 10Y	67 302 67 302 19 292 45 063 146 562		119.000 47,375 18,250	114,750 67 125	118,500 67,375	120,250 67 625	115,829	122.650	-80980	long	Sprand	lower 30
2000 Main 0-3 % 509 10Y 2000 Main 22-100 % 509 07Y 2000 Main 72-100 % 509 10Y 2000 Main 70X 509 07Y 2000 Main 70X 509 10Y	67 302 19 292 45 063 148 582	119.250	15,250	E7 125	67 375	67 625			-80980	long	Sprand	lower 30
2000 Main 0-3 % 509 10Y 2000 Main 22-100 % 509 07Y 2000 Main 72-100 % 509 10Y 2000 Main 70X 509 07Y 2000 Main 70X 509 10Y	19 292 45 083 148 562		16,250			67 625						lower
931, Main 22-100 M S09 07Y MX Main 72-100 M S09 10Y MX Main 7DX S09 07Y MX MAIN FOX S09 10Y	45 063 148 562			17,500							*****	
NX Main 72-100% S09 10Y NX Main 7DX S09 07Y NX Main 10X S09 10Y	45 063 148 562				18.550		28 250	72.004	14983	lone		
HIS. Main 70X 509 07Y HIS. Main 10X 509 10Y	148,582			44.000	45.700	45.00D	45.375	46,848	-21841	teng	Serest	Apriler sp
101 602 XOI MANAGE			146,000	143,000	145 505	147,000	148.682	149,528	-21841 -7078	jeng		former an
			176 000	166 003	100 Son							
BOLMAN EUX S 16 UST						170,000	17: 097	174,231	-17177	long	23/936	ناء بدستا
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JACH .	тотем	KE	PO	Droker had I		Broken Office	YEĞPIHA	BOOKS (GAAP)	f- Long Risk	4.5		
AUAHY 10-15% 584 35Y			91.500	91.500					* Chert Nink]	Rink	Rails	Perel
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							18 05)	16 348	1570	thert	Uplicat	higher
XNAIG 0-3% 509 10Y							63, 175	62869	-2805		Uplreat	ta-res
XNAIG IOX 509 01Y					19 500	51,000	49.671	84,000	43847	long	Spread	lewer sp
KMAIGIDX SOF IOY		117 380		110.750	112,250	113,750	112,243	110,750	-80344	hera	Speed	lewar sp
exc. Hain 0-3% \$09 10Y	16,202		63.875	65,710	56 250	66 825	66,250	65 953	-1591	teng	Uphent	lower
NX. Main 22-100% S09 07Y			12,000	12 000	12 300	14.500	13,333	15 248	-14501	ipeq	Spreed	lower ap
Main 22-100% 509 10Y			11,000	33 000	34.700	34,750	34.700	30.448	.70944	lene	Series	leaver up
equition IDX 509 07Y	129,000		119,750	123,250	127.250	131,280	130 657	122.557	4630			
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					121700	127.250	123,435	121,750	.18814	<u> </u>	34-440	
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PROARY	101EM	Ci	70	lyokar Bla S	broker Mid	Broker Offer	VCGPrice	CIÓ BOOKS (GAAP)	Notional (-Long Rosk + Short Risk)	Pisk	Boris	Deres
X NA.HY 10-15% 598 95Y	89,812	T.F	89,750	System Blc I	broker Mid 30,000	Broker Offer 30 300	es 150	CIO BOOKS (GAAP) 89,750	Notional (-Long Rtsk + Short Rts): 1450	Nisk speri	Boris Pres	Dere-
XNAHY 10-15% 508 05Y XNAHY 10-15% 510 07Y	89,912 (5,475	_E!	89,750 17,000	84 500 94 500 15 160	90,000 16,245	Broker Offer 30 500 17,330	80GPries 85 750 40,750	CK/ BOOKS [GAAP] 89,750 17,000	Notional (-Long Rtsk + Short Rtsk) 1450 -4041	Pisk speri	Baris Price Price	Deres Sever Seginal
IX NA.HY 10:15% 508 05Y IX.NA.HY 10:15% 510 07Y IX.NA.HY 15:25% 510 05Y	89,812 15,675 95 076	CF	82,750 17,000 95,375	Norther Bla 1 84.500 15.160 94.660	90,000 16,245 95,120	Broker Offer 30 500 17,320 95,580	#EGPrice 85 750 40,750 95,292	CIC BOOKS [GAAP] 89,756 17,000 95,375	Notional (- Long Rtok + Short Rts): 1450 -4041 -1833	Pisk sheri long long	Bonis Price Price Price	Deres Sever Segment Segment
IX MAHY 10-15% 598 65Y IX MAHY 10-15% 510 07Y IX MAHY 15-25% 510 05Y IX MAHY 15-25% 511 05Y	89,912 (5,475	₹CF	82,750 17,000 95,375 66,250	54.500 15.160 94.660 85.860	90,045 16,245 95,120 86,330	Broker Offer 36 500 17,330 95,540 47,000	#EGPries #5 750 #0,750 \$5,292 #6,233	CKI BOOKS (GAAP) 89,750 17,000 95,375 86 250	Horional (-Long Risk + Short Risk) -4041 -1833 -815	Posk strent long tong	Boris Price Price Price	Dermit Several Segment Segment
IX MAHY 10-15% 508 05Y IX MAHY 10-15% 510 07Y IX MAHY 35-25% 510 05Y IX MAHY 15-25% 511 05Y IX MAHY 35-100% 510 05Y	89,812 15,675 95,076 96,266	€F.	82,750 17,000 95,375 66,250 106,188	54.500 15.160 94.660 85.660 103.000	90,000 16,245 93,120 66,330 106,145	Broker OHer 30 500 17,330 93,580 67,000 106,290	85 750 40,750 95,292 86,233 107,792	CKI BOOKS (GAAP) 89,750 17,000 95,375 86,750 106,188	Notional (-Long Rink + Short Risk) 1450 -4641 -1833 -815	Pisk strent long hong long long	Boris Price Price Price Price	Dermit Several Segment Segment
IX MAMY 10-15% 508 05Y IX MAMY 10-15% 510 07Y IX MAMY 15-25% 510 06Y IX MAMY 15-25% 511 05Y IX MAMY 102 S11 07Y	89,812 15,675 95,076 96,208		82,750 17,000 95,375 66,250 106,188 102,000	94.500 15.160 94.660 94.660 105.000 101.063	90,000 16,245 95,120 95,120 106,145 101,563	Broker Offer 36 500 17,330 95,580 67,000 106,290 102,063	#EGPries #5 750 #0,750 \$5,292 #6,233	CKI BOOKS (GAAP) 89,750 17,000 95,375 86 250	Horional (-Long Risk + Short Risk) -4041 -1833 -815	Posk strent long tong	Price Price Price Price Price Price	Deres Sever Regiser Sigher Segher Sigher
IX NAMY 10-15%, 508 05Y IX NAMY 10-15%, 510 07Y IX MAMY 15-25% 510 05Y IX NAMY 15-25% 510 05Y IX NAMY 35-100%, 510 05Y IX NAMY 35-100%, 510 05Y IX NAMY 35-100%, 510 05Y	89,812 15,475 95 076 86,208 101,495 101,427	TE:	82,75d 17,000 95,375 e6,250 106,188 102,000 101,375	94.600 15.160 94.660 85.660 108.000 101.063	90,000 16,245 95,126 95,126 166,145 101,563 101,563	Broker Offer 36 500 17,330 95,580 87,000 106,290 102,063 101,750	85 750 40,750 95,292 86,233 197,792 103,495 101,427	CKI BOOKS (GAAP) 89,750 17,000 95,375 86,750 106,188	Notional (-Long Rink + Short Risk) 1450 -4641 -1833 -815	Pisk strent long hong long long	Boris Price Price Price Price	Derect Septem Septem Septem Septem Septem Septem
IX MAHY 10-15% 508 65Y IX MAHY 10-15% 510 07Y IX MAHY 15-25% 510 05Y IX MAHY 15-25% 517 05Y IX MAHY 35-100% 510 05Y IX MAHY 30X 516 05Y	89,812 15,475 95,076 86,208 101,495 101,427 100,500		89,750 17,000 95,375 66,250 106,188 102,000 101,375 100,563	55.000 15.160 94.600 162.000 102.000 101.063 101.750 100.313	90,000 16,245 95,120 95,120 106,145 101,563	Broker Offer 36 500 17,330 95,580 67,000 106,290 102,063	85 750 40,750 95,292 86,233 197,792 103,495	CIO BIONES [GAAP) 89,756 17 000 95,375 86 250 106,188 102,000	Notional (-Long Mak + Short Mak) 1450 -4041 -1833 -815 -3905 -4308	Pisk speri long long long long long	Price Price Price Price Price Price	Detroit descriptions higher higher higher higher lawer
IX NAMY 10-15% 508 05Y IX NAMY 10-15% 510 05Y IX NAMY 15-25% 511 05Y IX NAMY 15-25% 511 05Y IX NAMY 03-100% 510 05Y IX NAMY 03-511 07Y IX NAMY 03-514 05Y	89,812 15,475 95,076 86,246 401,495 101,427 100,500 24,034		82,750 17,000 95,375 66,250 106,188 102,000 101,375 100,563 24 168	55.600 15.160 94.600 15.600 105.000 101.063 101.750 100.313 23.830	90,100 16,245 95,120 95,120 106,145 101,563 101,563 101,500 100,500 74,060	Broker Offer 36 500 17,330 95,580 87,000 106,290 102,063 101,750	85 750 40,750 95,292 86,233 107,792 103,495 101,427	CIO BOOKS (GAAP) 89,750 17 000 95,375 86 250 105,188 102,000 101,375	Notional (-Long Risk + Short Risk) 1459 -4041 -1633 -815 -3905 -4308 12457	Pisk street long long long long long long short	Banis Price Price Price Price Price Price	Detection of the second of the
IX MAHY 10-15% 508 65Y IX MAHY 10-15% 510 07Y IX MAHY 15-25% 510 05Y IX MAHY 15-25% 517 05Y IX MAHY 35-100% 510 05Y IX MAHY 30X 516 05Y	82,812 15,875 95,076 86,208 101,495 101,427 100,500 24,034 59,671	101,594	82,750 17,000 95,375 66,250 106,188 102,000 101,375 100,563 24,168 59,875	55.000 15.160 94.600 162.000 102.000 101.063 101.750 100.313	90,000 162,45 95,120 96,330 106,145 101,363 101,590 100,500	Broker Offer 36 500 17,330 95,580 87,000 106,290 102,063 101,750 100,666	#5 750 40.750 95.292 86.213 107,792 101,495 101,427 100,500	CIÓ BOOKS (GAAP) 89,750 17 000 95,375 86 750 106,188 102,000 101,375 100 563	Notional (-Long Rtsk +Short Rts 1- 1450 -4041 -1833 -815 -3905 -4906 12457 8213	Pisk strent long long long long long long short short	Price Price Price Price Price Price Price	Dene- lever Regions higher higher higher lever lever higher higher
IX NAMY 10-15% 508 05Y IX NAMY 10-15% 510 05Y IX NAMY 15-25% 511 05Y IX NAMY 15-25% 511 05Y IX NAMY 03-100% 510 05Y IX NAMY 03-511 07Y IX NAMY 03-514 05Y	89,812 15,475 95,076 86,246 401,495 101,427 100,500 24,034		82,750 17,000 95,375 66,250 106,188 102,000 101,375 100,563 24 168	55.600 15.160 94.600 15.600 105.000 101.063 101.750 100.313 23.830	90,100 16,245 95,120 95,120 106,145 101,563 101,563 101,500 100,500 74,060	Broker Offer 30 300 17,350 95,580 87,000 106,290 102,063 101,750 100,686 24,250	#5 750 40,750 95,292 86,213 (97,792 101,495 101,427 100,500 24,063	CIO BOOKS (GAAP) 89,750 17,000 95,375 86,350 106,188 102,000 101,275 100,563 24,185	Notional (Long Rtsk: Short Rtsk:) Short Rtsk:) G41 1833 815 3905 3906 12457 8213 2985	elections tong tong tong tong tong tong tong tong	Bunis Price Price Price Price Price Price Price Price Price	Berne Search Segons Signer Signer Signer Sewer Source Source Source Source
IX NAMY 10-15% 508 05Y IX NAMY 10-15% 510 05Y IX NAMY 15-25% 510 05Y IX NAMY 15-25% 510 05Y IX NAMY 15-25% 510 05Y IX NAMY 10X 514 05Y IX NAMY 10X 514 05Y IX NAMY 10X 516 05Y IX NAMY 10X 516 05Y IX NAM 10X 516 05Y	82,812 15,875 95,076 86,208 101,495 101,427 100,500 24,034 59,671	101,594	82,750 17,000 95,375 66,250 106,188 102,000 101,375 100,563 24,168 59,875	94.500 15.160 94.660 85.660 103.000 101.063 101.750 100.313 23.830 59.625	90,000 16,245 95,120 86,330 106,145 101,363 101,560 101,500 100,500 24,060 59,833	Broker Offsz 36 300 17,330 95,580 87,000 106,290 102,043 101,750 100,686 24,280 93,813	83 750 40,750 95,292 86,233 (97,792 101,495 101,495 100,303 24,063 39,654 23,756	CKJ BOOKS 89,750 17,000 95,375 86 250 106,188 107,000 101,375 100,563 24,185 59,875 97,000	Notional	Pick story long long long shart short short long long long shart short short long long long long long	Baris Price Price Price Price Price Price Price Price Liptrari Spreed	Dene- lever higher higher higher higher hower hower hower hower
IX NAMY 10-15% 208 05Y IX NAMY 10-15% 510 05Y IX NAMY 15-25% 510 05Y IX NAMY 15-25% 510 05Y IX NAMY 15-25% 510 05Y IX NAMY 10X 511 05Y IX NAMY 10X 514 05Y IX NAMY 10X 516 05Y IX NAMY 10X 510 05Y IX NAMY 10X 510 05Y IX NAMY 10X 510 05Y IX NAMO 10X 500 05Y IX NAMO 10X 500 05Y IX NAMO 10X 500 10Y IX NAMO 10X 500 10Y IX NAMO 50X 500 10Y	82,812 15,875 95,076 86,268 101,495 101,427 100,500 24,034 59,871 94,756	101,594	82,750 17,000 95,375 66,250 106,188 102,000 101,375 100,563 24 168 59,875 92,000	94.600 15.160 94.600 15.160 94.600 165.600 161.350 161.350 160.313 23.830 59.825 89.613	90,000 16,245 95,120 86,336 101,45 101,550 101,560 24,060 58,853 51,613	Broker OHar 30 300 17,330 93,580 47,000 105,293 101,750 100,646 24,290 60,090 93,813 (15,56)	#2077/64 40,750 95,292 86,233 (97,792 101,495 101,427 100,501 24,063 39,654 33,756 (113,927	CKU GOAKT (GAAP) 17 000 95.375 86 250 105.188 102.000 101.375 100.563 24.185 59.875 92.000	Notional (-Lorg Ftsk + Short Rs 11 -1652 -0641 -1833 -815 -3905 -4306 172457 8213 2985 -3370 -33546 -67721	Pick story long rong long long short short short short long long	Banis Price Price Price Price Price Price Price Price Upbrani Spraad Spraad	Denetics of the second of the
IX NAMY 10-15% 508 65Y IX MAHY 10-15% 510 05Y IX MAHY 15-25% 510 05Y IX MAHY 15-25% 510 05Y IX MAHY 15-25% 510 05Y IX MAHY 10X 500 05Y IX MAKE 0-3% 500 05Y IX MAKE 0-3% 500 10Y IX MAKE 0-3% 500 05Y	82,812 15,875 95,076 86,268 101,427 100,500 24,034 96,71 94,756 114,967	101,594	82,750 17,000 95,375 66,250 106,188 102,000 101,375 100,563 24,168 59,875 92,000 112,500	87-char BMs 15 94-600 15-160 94-600 85-600 101-063 101-350 100-313 23-820 59-825 85-613 211-062	90,000 16,245 93,100 16,245 93,120 106,145 101,363 101,563 100,500 74,060 58,853 51,613	Broker Offsz 36 300 17,330 95,580 87,000 106,290 102,043 101,750 100,686 24,280 93,813	83 150 40,750, 95,292 66,333 (97,792 101,495 191,427 100,303 24,063 39,654 93,756 113,927 65,969	CEU BOOKT (CAAP) 89,750 17 000 95,375 86 730 100,188 107,375 109,1	Notional (-Long Fish: -Short Rest) -1659 -6041 -1803 -815 -2905 -2006 12457 8213 2985 -3370 -3354 -6772)	Pick strett long tong long long long short short short short long long long long	Blants Proce Price Price Price Price Price Price Price Price Uptrant Spread Uptrant Uptrant Uptrant Uptrant Uptrant	Barnet Silveret sporet
IX MANY 10-15% C08 65° VX XAAN 10-15% S10 67° VX XAAN 10-325% S10 65° VX XAAN 10-325% S10 65° VX XAAN 10-325% S10 65° VX XAAN 10-325 S10 60° VX XAAN 10-32% S00 10° VX XAAN 10-32% S00	82,812 15,875 95,076 86,268 101,427 100,500 24,034 96,71 94,756 114,967	101,594	82,730 17,000 95,375 66,250 106,188 102,000 101,375 100,563 24,188 59,875 92,000 112,500 68,125 15,500	8504ar Bio I 94.609 15.160 94.600 165.600 165.000 161.063 160.313 23.830 59.825 89.613 111.603 65.675 15.250	90,100 16,245 95,120 86,230 106,145 101,563 101,563 100,500 24,060 59,653 51,613 113,313 86,136 15,125	Broker OHst J0 500 17,330 93,580 102,043 101,750 100,686 24,280 60,080 93,813 (15,58) 66,490 17,000	#3 750 40,750, 95,292 86,233 (07,792 101,495 191,495 190,393 24,063 39,654 23,756 (13,387 85,969 13,750	CEU BOOKT (CAAP) 89,750 17 000 95,375 86 230 100,188 102,000 101,375 100 363 24,185 39,875 92,000 112,500 66,123 15,500	Notional (-Lorg Fittle - Short Risk) - Short Risk) - 641 - 1823 - 815 - 2905 - 4206 12457 8213 2999 - 2370 - 13456 6772) - 1445	Pick streft long long long long long shart shart shart long long long long long long long long	Blants Proce Price Price Price Price Price Price Price Liphroni Spread Uphone Spread	Bernet Service Segoner
IX MANEY 10-15% C09 63Y IX MAN Y 15-25% S 10 07Y IX MAN Y 15-25% S 10 05Y IX MAN Y 15-25% S 10 05Y IX MAN Y 15-25% S 10 05Y IX MAN Y 15-10% S 10 05Y IX MAN Y 10X 51 0 10Y IX MAN Y 10X 50 1 10Y IX MA	89,872 (5,475 95 076 86,208 (0),495 (0),427 (00 500 24,034 59,871 94,756 114,987 55,918	101,594	82,730 17,000 95,375 66,250 106,188 102,000 101,375 100,563 24 168 59,875 92,000 112,500 68,125 15,500 34 50d	94.600 15.160 94.600 15.600 105.600 101.053 101.350 100.313 22.830 59.813 111.062 85.875 134.400	90,000 10,245 93,120 16,245 101,545 101,560 100,500 74,060 54,650 54,650 54,650 113,311 86 136 18,125 35,115	Broker Offss 30 500 31,500 33,540 47,000 106,290 102,043 101,750 100,646 24,280 60,090 33,813 415,563 66,490 35,400 35,400 35,400	#2.0597600 #3.750 #0.750 #5.292 #6.233 (97,792 101,495 101,427 100,503 24,063 35,654 23,756 113,927 #5,989 15,989 12,988	CEU BIOCHT (CAMP) 25,756 17 000 95,375 86 250 105,188 102,000 101,375 100 563 24,185 39,775 12,500 66,125 15,500 34 500	Notional (-Long Pith -Short Res) -641 -1803 -815 -3905 -4206 12457 8213 2995 -3270 -33546 -4772 -1445 -4975 -12070	Pick street long tong leng tong tong tong tong tong tong tong to	Basis Pro- Price Price Price Price Price Price Price Liptent Uphroni Spraad Spraad Spraad	Bernet Service Register of Register of R
IX MANY 10-15% C08 65Y IX MANY 10-15% S10 67Y IX MANY 10-15% S10 65Y IX MANY 10-25% S10 65Y IX MANY 10-25 10 69 10Y IX MANY 10-25 10 69 10Y IX MANY 10-25 10 69 10Y IX MANY 10-25 10 65 10Y IX MANY 10-25 10 65 50 10Y IX MANY 10-25 10	93,812 15,475 95 076 86,266 101,435 101,427 100,500 24,034 94,756 114,987 65,918	95.810 115.750	89,730 17,000 95,375 66,275 106,188 102,000 101,375 100,563 24 188 59,875 92,000 112,500 68,125 15,500 34,500 121,750	94,505 15,160 94,660 85,660 105,060 101,350 101,350 100,213 23,830 59,625 89,613 111,062 15,675 15,236 34,400 130,750	90,000 16,245 93,120 96,145 101,580 101,580 100,500 24,060 59,833 113,313 86,136 136,136 136,136 131,258	Broker Offs: J0 500 17,350 93,580 67,000 100,696 100,666 24,290 60,080 93,813 415,563 66,490 17,680 73,836 23,4750	85,292 40,750 95,292 86,233 (97,792 101,427 100,301 24,063 39,654 93,756 111,987 85,989 13,750 24,983 113,475	CLU BIOCHT [CAMP] 89,756 17 000 95,375 86 730 100,188 102,000 101,375 100 563 24,185 59 873 92,000 117,500 66,125 13,500 14,500 14,500 131,750	Notional (-Long Rtsk Short Rts) 1093 1041 1033 115 2006 2006 12457 213 2995 3270 33546 4772) 1455 9275 12070 4353	PSSK street long long long long short short short short shore long long long long long long long long	Banis Price Uphrori Sprand Uphrori Sprand Sprand Sprand Sprand Sprand Sprand Sprand	Berner Sevice Peginer ; higher ; higher ; higher ; sower ; hower ; hower spi lower spi lo
XXMANY 10-15% C08 65Y XXMANY 10-15% S10 07Y XXMANY 15-25% S10 05Y XXMANY 15-25% S10 05Y XXMANY 15-25% S10 05Y XXMANY 10-25 10-15Y XXMANY 10-25 10-15Y XXMANY 10-25 10-15Y XXMANY 10-25 10-15Y XXMAN 10-25% 509 10Y	89,812 13,475 95,076 86,286 601,495 101,495 100,500 24,034 55,871 94,756 114,987 65,918	95.810 95.820 115.750	89,730 17,000 95,375 66,275 60,188 102,000 101,375 100,563 24 188 59,875 92,000 112,500 88,123 15,500 34,500 121,750	84.600 15.160 94.600 15.160 94.600 85.600 101.063 101.750 100.313 22.830 59.625 89.613 111.025 65.675 15.250 34.400 130.750 144.250	90,000 16,245 95,120 16,245 101,563 101,563 101,563 101,563 113,513 80 134 113,115 135,115 135,115 146,250	Broker Office 30 300 17,300 95,580 87,000 102,043 101,750 100,688 24,280 60,080 93,813 115,680 17,000 75,430 114,823	83 750 40.750 95.292 86.213 (97,792 101.495 101.427 100.301 24.063 35.654 23.756 113.497 85.969 15.750 24.983 15.750	CIO BECONT GAAP) 89,756 17 000 99,375 84 730 100,188 59 875 92,000 601,375 92,185 59 875 92,000 66,123 15,580 34 500 131,750	Notional (-Long Rink + Short Res) - 1450 -4941 -805 -805 -806 -12457 -8213 -2905 -3206 -47781 -1445 -47781 -4778	Nick strart long long leng leng short short short shore long long long leng leng leng leng leng leng leng le	Ban is Price Price Price Price Price Price Uptrani Spread Uptrani Spread Spread Spread Spread Spread Spread Spread Spread Spread	Bernet Spiner i Jower
IX MANY 10-15% C08 65Y IX MANY 10-15% S10 67Y IX MANY 10-15% S10 65Y IX MANY 10-25% S10 65Y IX MANY 10-25 10 69 10Y IX MANY 10-25 10 69 10Y IX MANY 10-25 10 69 10Y IX MANY 10-25 10 65 10Y IX MANY 10-25 10 65 50 10Y IX MANY 10-25 10	93,812 15,475 95 076 86,266 101,435 101,427 100,500 24,034 94,756 114,987 65,918	95.810 115.750	89,730 17,000 95,375 66,275 106,188 102,000 101,375 100,563 24 188 59,875 92,000 112,500 68,125 15,500 34,500 121,750	94,505 15,160 94,660 85,660 105,060 101,350 101,350 100,213 23,830 59,625 89,613 111,062 15,675 15,236 34,400 130,750	90,000 16,245 93,120 96,145 101,580 101,580 100,500 24,060 59,833 113,313 86,136 136,136 136,136 131,258	Broker Offs: J0 500 17,350 93,580 67,000 100,696 100,666 24,290 60,080 93,813 415,563 66,490 17,680 73,836 23,4750	85,292 40,750 95,292 86,233 (97,792 101,427 100,301 24,063 39,654 93,756 111,987 85,989 13,750 24,983 113,475	CLU BIOCHT [CAMP] 89,756 17 000 95,375 86 730 100,188 102,000 101,375 100 563 24,185 59 873 92,000 117,500 66,125 13,500 14,500 14,500 131,750	Notional (-Long Rtsk Short Rts) 1093 1041 1033 115 2006 2006 12457 213 2995 3270 33546 4772) 1455 9275 12070 4353	PSSK street long long long long short short short short shore long long long long long long long long	Ban is Price Price Price Price Price Price Uptrani Spread Uptrani Spread Spread Spread Spread Spread Spread Spread Spread Spread	Bernet Spiner i Jower
XXMANY 10-15% C08 65Y XXMANY 10-15% S10 07Y XXMANY 15-25% S10 05Y XXMANY 15-25% S10 05Y XXMANY 15-25% S10 05Y XXMANY 10-25 10-15Y XXMANY 10-25 10-15Y XXMANY 10-25 10-15Y XXMANY 10-25 10-15Y XXMAN 10-25% 509 10Y	89,812 13,475 95,076 86,286 601,495 101,495 100,500 24,034 55,871 94,756 114,987 65,918	95.810 95.820 115.750	89,730 17,000 95,375 66,275 60,188 102,000 101,375 100,563 24 188 59,875 92,000 112,500 88,123 15,500 34,500 121,750	84.600 15.160 94.600 15.160 94.600 85.600 101.063 101.750 100.313 22.830 59.625 89.613 111.025 65.675 15.250 34.400 130.750 144.250	90,000 16,245 95,120 16,245 101,563 101,563 101,563 101,563 113,513 80 134 113,115 135,115 135,115 146,250	Broker Office 30 300 17,300 95,580 87,000 102,043 101,750 100,688 24,280 60,080 93,813 115,680 17,000 75,430 114,823	83 750 40.750 95.292 86.213 (97,792 101.495 101.427 100.301 24.063 35.654 23.756 113.497 85.969 15.750 24.983 15.750	CAU BOOKE (CAAP) 89,750 89,750 17,000 95,375 84,750 105,186 102,000 101,375 100,563 24,185 39,875 97,000 112,500 66,123 15,580 34,500 131,750 146,750 146,750 146,750 146,750	Notional (-Long Plats Storn	Nick strart long long leng leng short short short shore long long long leng leng leng leng leng leng leng le	Ban is Price Price Price Price Price Price Uptrani Spread Uptrani Spread Spread Spread Spread Spread Spread Spread Spread Spread	Bernet Spiner i Jower
XXMANY 10-15% C08 65Y XXMANY 10-15% S10 07Y XXMANY 15-25% S10 05Y XXMANY 15-25% S10 05Y XXMANY 15-25% S10 05Y XXMANY 15-25% S10 05Y XXMANY 15-25% S07 XXMAN 15-	89,812 13,475 95,076 86,286 601,495 101,495 100,500 24,034 55,871 94,756 114,987 65,918	95.810 95.820 115.750	82,750 17,800 19,805 195,375 65,250 106,188 101,375 100,563 24 168 59,875 92,000 112,500 68,123 15,500 34,500 131,750 146,750 170,270	84.600 15.160 94.600 15.160 94.600 85.600 101.063 101.750 100.313 22.830 59.625 89.613 111.025 65.675 15.250 34.400 130.750 144.250	90,000 16,245 95,120 16,245 101,563 101,563 101,563 101,563 113,513 80 134 113,115 135,115 135,115 146,250	Broker ONar J0 300 31,330 93,580 67,000 106,290 102,043 101,756 100,666 24,290 60,090 93,813 115,563 66,490 13,63 66,490 14,63 66,40 14,63 66,40 66,	83 750 40.750 95.292 86.213 (97,792 101.495 101.427 100.301 24.063 35.654 23.756 113.497 85.969 15.750 24.983 15.750	CAU BIOCHET BR.750 BR.750 BR.750 BR.750 BR.750 BR.750 BR.750 BR.750 CO.168 BR.750 SP.7	Nisriponal Nisriponal Nisriponal Nisriponal Nisriponal Nisripon	Nick strart long long leng leng short short short shore long long long leng leng leng leng leng leng leng le	Ban is Price Price Price Price Price Price Uptrani Spread Uptrani Spread Spread Spread Spread Spread Spread Spread Spread Spread	Bernet Spiner i Jower
TRANSPORT OF THE SECOND STATE OF THE SECOND ST	69,812 13,475 55,676 66,268 101,427 100,500 24,034 59,671 94,756 55,918 125,475 150,632 727,637	95.810 95.820 115.750	82,750 17,800 19,805 195,375 65,250 106,188 101,375 100,563 24 168 59,875 92,000 112,500 68,123 15,500 34,500 131,750 146,750 170,270	96.000 15.160 94.660 15.860 161.000 161.003 161.035 160.313 22,830 59,825 89,613 15.265 15.275 15.260 130.250 144.250 127.200	90,000 16,245 93,120 160,145 101,560 101,560 100,500 74,050 50,653 51,613 113,313 50,136 113,255 122,750 146,250 122,750	Broker OHs. Jo 500 17.320 95.580 100.000 100.0	83 750 40,750, 95,293 60,233 (97,792 101,497 100,503 39,654 93,756 113,937 65,969 13,760 13,7	CAU BOOKE (CAAP) 89,750 89,750 17,000 95,375 84,750 105,186 102,000 101,375 100,563 24,185 39,875 97,000 112,500 66,123 15,580 34,500 131,750 146,750 146,750 146,750 146,750	Notional (-Long Pres)	Sisk street long street long foreg foreg short when song long long long long long long long l	Ban is Price Price Price Price Price Price Uptrani Spread Uptrani Spread Spread Spread Spread Spread Spread Spread Spread Spread	Berrer Service Service Sighter Sighter Sighter Sighter Sighter Service
TANATY (1-15) (208 S)	69,812 13,473 55,676 66,268 101,427 100,500 24,034 59,671 94,756 114,987 55,918 125,475 150,637 70,710	101,594 95,810 115,750 150,750 178,540	82,750 17,800 95,375 66,250 106,188 102,000 101,375 100,563 24,168 59,875 92,000 112,500 88,123 92,000 112,500 146,750 146,750 70,000	95.25 55.25 15.160 95.660 15.160 95.660 105.000 101.050 101.250 102.230 22.830 59.825 58.613 111.062 65.875 15.256 144.230 122.000	90,000 16,245 93,120 86,336 101,565 101,565 101,560 100,500 74,065 98,833 51,613 113,13 80,136 113,13 113,13 114,125 132,750 146,230 175,2750	Broker Otta: J0 500 17,320 93,580 47,000 106,290 102,043 102,043 100,646 24,280 93,813 (15,563 86,490 17,000 17,000 134,730 148,250 178,500 178,500 178,500 178,500 178,500 178,500 178,500 178,500 178,500 178,500 178,500	82 750 40,750 40,750 55,292 86,233 (67,792 101,495 101,495 100,303 24,063 39,654 93,756 113,987 85,989 15,750 24,938 173,476 173,476	CKU BOOKE (CAMP) 99,750 17 000 99,375 84 750 100,186 101,375 100 563 24,185 39,875 97,090 112,500 66,125 15,500 34,500 131,750 146,750 131,750 146,750 126,250 127,250 127,250 131,750 146,750 131,750 146,750 127,250 146,750 127,250 146,750 127,250 146,750 127,250 146,750 127,250 146,750	Nisriponal Nisriponal Nisriponal Nisriponal Nisriponal Nisripon	Nick strart long long leng leng short short short shore long long long leng leng leng leng leng leng leng le	Ban is Price Price Price Price Price Price Uptrani Spread Uptrani Spread Spread Spread Spread Spread Spread Spread Spread Spread	Dermin Service
TRAMENT (1-15 to 00 kg) ANALYT (1-15 to 00 kg)	97,812 15,475 95,076 96,206 101,427 100,500 72,034 55,671 92,674 114,987 55,918 125,475 150,632 127,470	101,594 95,810 115,750 150,750 178,540	82,730 17,800 17,800 95,375 e6,250 106,188 101,375 100,563 24 188 59,875 92,000 112,500 34,500 131,750 146,750 170,000	15.160 94.600 15.160 94.660 165.600 161.063 161.350 160.313 22.830 59.825 89.613 111.062 65.675 152.600 124.000 124.000	90,000 18,285 93,120 86,230 100,145 101,560 101,560 100,500 74,060 59,832 51,831 33,115 132,750 146,230 20,	Broker OHs. Jo 500 17.320 95.580 100.000 100.0	83 750 40,750, 95,293 60,233 (97,792 101,497 100,503 39,654 93,756 113,937 65,969 13,760 13,7	CKU BIOCHET (GAAP) 17 000 95.375 100.188 107.090 101.375 100.563 24.185 59.875 97.090 66.125 115.590 131.750 140.750 131.750 140.750 131.750 140.750 131.750	Netronal	Sisk street long teng leng leng shart shart shart shart leng leng leng leng leng leng leng leng	Bastic Price Price Price Price Price Price Price Liphroni Spraad	Berne
TANATY (1-15) (208 S)	97,812 (3,475 35,076 86,206 101,435 101,435 100,500 24,034 98,671 114,987 55,918 125,475 150,632 174,967 175,616 175,710 187,711 187,711 187,711 187,711	101,594 95,810 115,750 150,750 178,540	82,750 17,800 95,375 66,250 106,188 102,000 101,375 100,563 24,168 59,875 92,000 112,500 88,123 92,000 112,500 146,750 146,750 70,000	95.25 55.25 15.160 95.660 15.160 95.660 105.000 101.050 101.250 102.230 22.830 59.825 58.613 111.062 65.875 15.256 144.230 122.000	90,000 16,245 93,120 86,336 101,565 101,565 101,560 100,500 74,065 98,833 51,613 113,13 80,136 113,13 113,13 114,125 132,750 146,230 175,2750	Broker Otta: J0 500 17,320 93,580 47,000 106,290 102,043 102,043 100,646 24,280 93,813 (15,563 86,490 17,000 17,000 134,730 148,250 178,500 178,500 178,500 178,500 178,500 178,500 178,500 178,500 178,500 178,500 178,500	82 750 40,750 40,750 55,292 86,233 (67,792 101,495 101,495 100,303 24,063 39,654 93,756 113,987 85,989 15,750 24,938 173,476 173,476	CKU BOOKE (CAMP) 17 000 95.375 84 750 100.188 102.075 100.188 102.075 100.075 39 875 97,000 112,500 24,185 39 875 97,000 112,500 24,185 39,700 112,500 24,185 39,700 112,500 24,185 39,700 112,500 24,185 39,700 30,700 30,	Notice N	Pick street long street long long long long short short short long long long long long long long long	Bastic Price Price Price Price Price Price Price Liphroni Spraad	Bernin Bernin Bernin Bernin Bernin Beginse i Beginse i Beginse i Beginse i Beginse i Bernin B
TRAMENT (1-15 to 00 kg) ANALYT (1-15 to 00 kg)	89,812 15,475 90,745 101,427 101,427 100,500 24,034 59,671 94,756 114,987 55,910 125,475 150,633 170,700 170,710 187,911 193,114 1	101,594 95,810 115,750 150,750 178,540	82,730 17,800 17,800 95,375 e6,250 106,188 101,375 100,563 24 188 59,875 92,000 112,500 34,500 131,750 146,750 170,000	15.160 94.600 15.160 94.660 165.600 161.063 161.350 160.313 22.830 59.825 89.613 111.062 65.675 152.600 124.000 124.000	90,000 18,285 93,120 86,230 100,145 101,560 101,560 100,500 74,060 59,832 51,831 33,115 132,750 146,230 20,	Broker Orta: J0 500 37,300 95,500 106,290 102,043 101 750 100,648 24,290 60,090 93,913 115,543 115,543 124,250	#2 750 #2 750 #0.750 #5.292 #6.233 (97,792 #0.301 24.863 35.654 #2.756 #13.927 #5.969 15.750 24.91 15.959 15.95	CKU BIOCHET (CAMP) 17 000 95.375 84 730 106.188 102.090 101.375 100.0563 24.185 35 875 92.000 112,500 66.125 15.590 123.1750 134.750 1	Notional	Pick strett long long long long long long long long	East is Price Upproci Spread	Bernal Bernal Bernal Regher (
TRAMATE (1-15 C00 85 C)	87,812 (5,475 35,076 86,286 601,495 101,495 100,500 20,034 59,671 14,987 55,918 14,987 55,918 12,97 120,670 100,700 10	101,594 95,810 115,750 150,750 178,540	89,750 17,800 95,375 95,375 60,250 106,188 102,000 101,375 100,651 24 168 59,875 92,000 112,500 68,123 115,500 146,750	95.800 15.160 94.600 15.160 94.600 102.000 101.083 101.250 100.213 23.830 95.825 85.813 11.062 65.825 15.250 14.250 122.000	20,000 16,245 93,120 95,120 101,545 101,545 101,545 101,545 101,545 101,545 101,545 113,313 11	Broker 09tu 36 300 17,320 95,580 47,000 106,293 101,750 100,646 24 280 80,090 93,813 115,643 66,490 17,000 134,250 124,250	83 750 40,750, 95,292 86,233 (07,792 86,233 (07,792 101,497 100,503 24,063 35,654 23,756 131,497 65,989 15,750 24,938 155,476 150,623 173,676 (00,000)	CEJ BOOKE 17 000 95,756 17 000 95,375 86 250 106,188 102,080 101,375 100 563 34 185 39 875 92,000 112,500 66,125 13,500 140,500 120,50	Notice N	Bills street long tong tong there ahert long there ahert long tong tong tong tong tong tong tong t	Bastic Price Price Price Price Price Price Price Liphroni Spraad	Dermit Service (1997) (
TRAMENT (1-15) COB 65 TO THE ACT OF THE ACT	89,812 15,475 90,745 101,427 101,427 100,500 24,034 59,671 94,756 114,987 55,910 125,475 150,633 170,700 170,710 187,911 193,114 1	101,594 95,810 115,750 150,750 178,540	89,750 17,800 95,375 95,375 66,250 106,188 102,000 101,375 100,663 24,168 59,875 92,000 112,500 88,123 115,500 146,750 127,750 146,750 170,750	57.400 15.160 15.560 15.560 15.560 163.500 161.053 161.353 162.313 22.830 59.525 89.613 111.662 85.675 85.675 15.260 132.750 144.750 1	90,000 16,245 93,129 96,230 105,145 101,563 101,563 101,563 101,563 110,563 113,213 84 126 13,125 132,256 146,230 166,230 173,213 186,230 173,213 173,213 173,213 174,210	Broker Offs: J9 500 31,330 95,580 100,093 100,093 101,562 60,090 93,813 115,563 68,490 134,790	83 750 40,750, 95,292 86,313 (97,792 101,493 101,493 101,427 100,303 39,654 93,756 113,427 85,969 113,476 110,023 173,476 110,023 173,476 170,027 170,	CEU BOOKET (CALP) 17 000 95.375 84 75.0 105.184 107.000 101.253 39.755 97.000 117.500 34.500 123.750 125.256 CEU	Notional	PERM STATE OF THE PERM STATE O	State Price	Bernette several programme of the several prog
TRAMENT (1-15. 10 BE 57 THE STAN AND THE STA	87,812 (5,475 35,076 86,286 601,495 101,495 100,500 20,034 59,671 14,987 55,918 14,987 55,918 12,97 120,670 100,700 10	101,594 95,810 115,750 150,750 178,540	89,730 17,000 95,375 95,375 65,250 106,188 102,000 101,375 100,563 24 168 59,875 92,000 112,500 68,125 112,500 68,125 112,500 121,750 126,750 120,750	59.850 15.160 94.660 15.660 15.660 160.351 20.830 160.351 20.830 59.852 15.250 14.230 15.250 14.230 15.250 14.230 15.250 14.230 15.250 16.250	20,100 16,245 25,126 36,126 101,563 101,563 101,563 101,563 101,563 113,213 36,133 113,213 36,133 113,213 101,	Broker 21 325 53.150 February 21 325 53.150 64.750 65.750	83 750 40,750, 95,292 86,233 (97,792 86,333 (97,792 80,493 191,427 190,503 24,963 35,654 93,756 131,427 65,989 13,750 24,938 135,476 150,623 479,676 160,623 479,676 160,623 479,676 160,623 470,676 160,623 470,676 160,623 470,676 160,623 470,676 4	CED BOOKET (CAMP) 17 000 95.375 85 250 105.186 107.000 107.375 109.586 107.000 117.500 66.123 15.500 146.750 128.250 107.500 1	Notional	Pick strari long tong leng long shart sharp long lang lang lang lang lang lang lang la	Banis Price	Dermin servici in servici servici in servici servici servici servici servici servici servici in se
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TRAMENT (1-15) GO BE ST TRAMENT (1-15) TO BE	58,475 58,675 59,076 66,268 60,485 101,425 100,425 100,425 100,425 114,987 55,971 5	95.810 115.750 150.750 172.540	58,756 (77,000) 95,373 (66,730) 95,373 (66,730) 95,373 (66,730) 95,373 (100,563) 100,563 (101,375) 100,563 (101,375) 100,563 (101,375) 100,563 (101,375) 100,563 (101,375) 100,563 (101,375) 100,763 (101,375) 100	Northal Bio. 2 90,000 94,000 94,600 100,000 101,000 10	90,000 100,000	Broker 23 134 250 500 415 500	88 150 467 56 233 (67) 782 56 233 (67) 782 56 233 (67) 782 56 233 (67) 782 56 24 26 26 26 26 26 26 26 26 26 26 26 26 26	Circles (Court) 17 (Co	Nistional (-Long Risk)	Piss start and a s	Govis Price Pr	Bernario Septino de la composito del
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TRAMET (1-15. 108 65 V) KANATY (1-15. 108 10 D) KANATY (1-15. 10 D) K	98,812 58,076 58,076 59,076 101,425 101,427 100,500 101,425 100,500 101,427 100,500 114,927 114,927 125,475 126,021 127,027 100,500 100,600	95.810 115.750 150.750 172.540	18.754 66.750 95.273 66.750 95.273 66.750 95.273 66.750 100.484 102.000 101.375 100.563 98.75 100.563	Novame 184. 2 98.100 98.100 98.600 103.000 104.000 105.000	90,000 100,000	Broker 23 134 250 500 415 500	88 150 467 56 233 (67) 782 56 233 (67) 782 56 233 (67) 782 56 233 (67) 782 56 24 26 26 26 26 26 26 26 26 26 26 26 26 26	Circles (Court) 17 (Co	Nistional (-Long Risk)	Piss start and a s	Caric Price	Bereit Bereit Bereit Bereit Beginne Beginne Beginne Beginne Beginne Beginne Beginne Bereit
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TRAMET (1-15. 108 65 V) KANATY (1-15. 108 10 D) KANATY (1-15. 10 D) K	98,812 58,076 58,076 59,076 101,425 101,427 100,500 101,425 100,500 101,427 100,500 114,927 114,927 125,475 126,021 127,027 100,500 100,600	95.810 115.750 150.750 172.540	18.754 66.750 95.273 66.750 95.273 66.750 95.273 66.750 100.484 102.000 101.375 100.563 98.75 100.563	Novame 184. 2 98.100 98.100 98.600 103.000 104.000 105.000	10, 100 100 100 100 100 100 100 100 100	Broker 17.330 95.540 97	88 193 40.756 5.232 (07.752 5.256 5.	Cur scores 17 coo	Nicleanal	Note that the state of the stat	Garis Price Spread	Bernen Henrick p higher p higher p higher p higher p higher p higher p hower p hower p hower p lower p lower p lower p lower p lower p lower p lower p lower p hower p hower p
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Data coursed from E/D, validated by C/D MCG - New York and London

Appendix C - CIO Transaction Data

The following tables set out the following:

- 'SIZE (week ending)' The average traded volume for the relevant week.
- 'AVG PRICE (week ending)' The average price at which CIO executed its transactions during the relevant week.

For relevant observations, please refer to appendix B.

(mysk snaing)				27-120-12			17.5+2-12	24-Pri-12				23-Mar-12	30 Mar-12	4.5
CDX NA. HY 10-134 S06 05Y	50	60	20		ж	300			45	26	120			
CDXMANY 19-15% 510 07Y	280.		130	300	10	•		,		*			*	
CDXNAHY 15-25% \$10 65Y	10	50	25	30	70	. 15	20		140	10	20	\$0	30	,
COXNAHY 15-754 611 05Y	76	110		20	as	25	175		30	20	170	10	20	5
CDXNAHY35-100% \$1005Y						200	-		*					,
COXNAHY KX SIT 07Y	100			1,350	300								100	14
COKNANT KIRSIA DSY	250	300	725	175		150	175	-	85	~			25	14
CDXNAHY IDX \$15 05Y	350	500	450	150		300	652	352	350		900		200	31
COXHAM B-3% SIR 95%	30	103		35	10	120	75		PÔ.	60	280		145	,
YOU WAS A CONNECTED OF	80			110	30						200	235	130	
COX NA IG IOX 509 07Y	598	2,120		3,584	952	374	2,789	2,421	1,952		1,431	405	10	1,34
2 CDXNANG 10X 849 10Y	5,988	10,728	944	10,031	2,226	. 2,392	1,041	4,633	11,645	721	3,659	3,895	841	4,50
3 17(aux,600/n 0-2% 509 10Y	30		20	20	10	10						20	155	
4 /Trans, Main 22-100% 505-07Y		100				500	1,925	500	975			250	125	33
5 Trays Main 72-100% 500 187		1,525	50			2,545	250	1,275	215	1,000	1,525	1,008	125	74
6 CTranta Marier NDX S09 07Y		88	135	631		1,240	1,094	590	667			153	162	40
Trans. Main IDX 509 189	1,623	5,412	1,662	3,027	530	3,266	1,024	1,795	2,165	986	3,678	1,157	484	2.04
Freez Mein IOX 516 05Y	5,729	4,900	7,297	9:344	6 571	10,705	10.575	4541	10 063	1,043	\$,100	6,600		2.5
,														
AVERAGE PRICE														TOTES
(reak reging)	5-Jan-12	13-Jan-12	to Jan-12	27-Jan-12	1-449-37	10.546-12	17-Feb-12	20-54-12	2-Mar-12	3-Marct	15 Mar-12	23-Mai:12	20-401-12	Privary
COXHAHY 10-15% 304 05Y	63,25	62,75	65,38		71.2%	47 14			#F 76	20 M	28.15	- Our and the co		92.1
COXMANY 10-15% STORTY	18.75		15,34	15.73	20,75									911
COXNAMY 15-25% \$10 05Y	75 00	82.31	85.63	49.75	92,48	90,25	93,06		95 13	82.50	23,00	93 50	92 58	92 9
COXMANY 15-35% \$1105Y	69,5à	74.28		42 50	65.97	83,50	85 25		86 55	82,50	83.67	83,63	63.34	832
CDXNAM* 35-100% \$19 05Y						106,25								
CORNAHYIOX51197Y	97,31			100,39	101 50	-						-	101.75	101 5
COXMANY IOX S14 05Y	97,53	97 56	98.65	100.00		101,19	180 63		101.47				191.88	1014
CDXMANY IOX 515 05Y	97 04	95 89	25.33	99.67		100,86	19,84	100,23	100 60		100.57		100.94	100.7
COXNAM 0-3% SRI 05Y	39,00	32 67		27.66	26,64	26.30	22,30		22.64	24.33	72.11		17.18	173
				67,80	61 25						62.31	69.74	62.53	63.
6 GDZ NAIG 0-3% 509 10Y	70.00			110,16	106,44	102.00	106 90	103.66	9631		91 23	84.62	96.00	89,6
	70.00	124,05						170 45	115.89	11933	115,33	106.70	11120	112
COXNAIG MX S09 07Y		124,05	123,75	135,44	120 97	122.12	123.60							
COX MANG NOX SER 67Y	176,60					122.12 65,50	123,60	12019			112.23			
1 CDX NA NG NDX 509 07Y 2 CDX NA NG NDX 569 10Y 3 TI NOX NA NG NDX 509 10Y	195,60	130,25	133.75	125,44	120 97		,					63 13	45.29	
1 CDX NAIG KIX 809 07Y 2 COX MAIG KOX 869 10Y 3 Traps Main 0-3% 809 10Y 4 Traps Main 22-100% 808 07Y	195,60	131.25	133.75 68 63	125,44 57.13	120 97	65,50			17,65	:		63 13 15.00	65.29 12.75	
1 CDX.NA.IG IELX SCB 07Y 2 CDX.NA.IG IEX SGB 10Y 3 Firencesh 0.3% SGB 10Y 4 Firencesh 0.3% SGB 10Y 5 Trancasa 72-100% SGB 10Y	136,60 141,67 89,96	130,25 30,75	133,75 60 63	135,44 57.13	120 97 85.63	65,50 17 50	20 10	17:63 37:93	17,65			63 13 15.80 34.45	45.29 12.75 33.63	663
1 CDX NA.IG IELX SCB 07Y 2 CDX NA.IG IEX SGB 10Y 3 Firencesh 0.3% SGB 10Y 4 Firencesh 0.3% SGB 07Y 5 Firencesh 22-100% SGB 07Y	136,00 141,67 89,96	136,25 36,75 \$8,88	133.75 60 63 58.20	125,44 57.13	120 97 85 63	63,50 17 10 36,48	20 10 10,50	17.63	17,65 37 68	35.25		63 13 15.00	65.29 12.75	66.7 130.6

Data sourced from CID; validated by CIO middle office

95% 10Q VaR	2Q1	11	1Q1	1	201	10
(\$mm)	Spot	Avg	Spot	Avg	Spot	Avg
IB VaR by risk type:						
Fixed income	40	46	55	49	87	64
Foreign exchange	8	9	11	11	11	10
Equities	21	25	22	29	23	. 20
Commodities & other	11	16	10	13	12	20
Diversification benefit to IB trading VaR	(35)	(37)	(37)	(38)	(42)	(42
IB Trading VaR	45	59	61	64	91	72
CPG	24	27	28	26	29	27
Diversification benefit to IB trading & CPG VaR	(12)	(8)	(7)	(7)	(9)	(9
Total IB trading & CPG VaR	57	78	82	83	111	90
Mortgage Banking VaR	18	20	18	16	- 19	24
Chief Investment Office (CIO) VaR	52	51	55	60	55	72
Diversification benefit to total other VaR	(3)	(10)	(13)	(14)	(12)	(14
Total other VaR	67	61	60	62	62	82
Diversification benefit to total IB and other VaR	(26)	(45)	(56)	(57)	(59)	(79
Total IB and other VaR	98	94	86	88	114	93

From: Macris, Achilles O <achilles.o.macris@jpmorgan.com>

Sent: Sat, 05 May 2012 22:37:28 GMT

To: Drew, Ina <Ina Drew@jpmorgan.com>

CC: Goldman, Irvin J <irvin.j.goldman@jpmchase.com>

Subject: per the last call: here are the facts:

Hi Ina,

I am not sure if I understood this correctly on the last call:

Jamie asked if the position was increased after you ordered to stop trading.

I think that your instruction came on March 23 following the SAA meeting in the previous day in which Bruno presented the book.

I have looked into this recently as I was briefly in Asia the following week:

The week of March 26, the desk did some smaller final rebalancing trades. These trades were not long risk or involving the IG9 index. The delta was actually reduced through these transactions. Risk management was monitoring this process.

In the prior week (March 19/ March 23) Javier and team increased the delta in the book. The increase was in their delegated authority and not in violation of any limit.

Per our previous call, the increase was not discussed with me or you or in any of our management forums. Actually, the result of these actions and the corresponding RWA increases, led me to call Venkat and ask for Olivier's help at that time.

The explanation that Javier and Bruno are providing regarding the increased delta is in line with the stated objective

Balancing and risk neutralizing the book, was exactly their instruction from both of us.

The evidence now provided relating to the need to better balance the book (via the increased delta) is convincing, but very complicated.

In my judgement the increased delta is not one of the main contributing factors for the poor performance of this book that deteriorated around the end of Q1. I have concerns that the increased delta created too much market awareness and further increased an already large concentration.

These issues point to a bad judgement call on concentration and liquidity, as well as luck of escalation of a material

change to the roadmap of balancing the book. I don't however think that beyond these important issues, there was a violation of any specific order or limit.

I hope that this clarifies the issue.

Thanks, Achilles

From: Grout, Julien G <julien.g.grout@jpmchase.com>

Thu, 22 Mar 2012 17:46:07 GMT

To: CIO ESTIMATED P&L <CIO_CREDIT_P&L@jpmchase.com>

CC: CIO P&L Team <CIO_P&L_Team@jpmchase.com>
Subject: CIO Core Credit P&L Predict [22 Mar]: +\$82k (dly) -\$276,990k (ytd)

Daily P&L: \$82,141 YTD P&L: -\$276,990,321

Daily P&L(\$) YTD P&L(\$)

Europe Financials -6,597,360 -14,533,858

Redacted By

Permanent Subcommittee on Investigations

Europe High Grade 25,839,314 124,436,937

Redacted By

Permanent Subcommittee on Investigations

US High Grade -82,388,848 409,065,325

Redacted By

Permanent Subcommittee on Investigations

US HY & LCDX 94,962,354 -347,851,042

Redacted By

Permanent Subcommittee on Investigations

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JPM-CIO-E 00014689

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US ABX / TABX -155 -21,008

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New Investments -20,633,978 -461,330,052

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Dead Books (Core) -13 2,017

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Washbook/Costs 0 0

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Explanatory P&L (in \$1000s): Name Total Directal Tranche Carry IR N/T Adjust FX

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Close COD

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Another day of weakness triggered by negative news from China overnight, a very poor set of PMI in Europe. The market feels shaky here, with European financials, iTraxx.Xover and CDX.IG underperforming. Volatilities are higher by about +4pt across the board, but there was no flattening of index curves - some market players were actually marking curves a tad steeper, on the off the run series (S9, IG9). No obvious theme in tranches today - equity tranches were steeper again, in CDX.IG, but slightly flatter in iTraxx. The behaviour of the book was close to what happened yesterday - the book is making money thanks to the decompression trades in Europe and in the US (our shorts in CDX.HY, S14,15,16,17 widened), with gains estimated to S80M. Again, the book is getting hurt with losses in index forward spreads in S9 and IG9, and in tranches (weaker CDX.HY equity and mezzanine tranches, steeper IG9 equity tranches).

Today we sold protection in the following index: iTraxx.Main (5.65B), iTraxx.Xover (300M), CDX.IG (3.95B) and FINSUB (100M). Beside providing carry, these trades should reduce the VaR, but increase the IRC. We are pausing in our sale of protection, to see what the overall impact on capital numbers is going to be.

Again, a lot of prices are still being framed and we are providing our best estimate.

From: Hagan, Patrick S <patrick.s.hagan@jpmorgan.com>

Sent: Mon, 02 Apr 2012 12:29:02 GMT

To: Goldman, Irvin J <irvin.j.goldman@jpmchase.com>

Subject: RE: Final split?

lrv:

Thanks. I sent him that instruction, so he can get on it.

I didn't mean to throw a spanner in the works, but we got nervous when our intuition about the CRM didn't match QR's modeling runs. I'm over here today with Olivier Vigneron, and we have some ideas about the source of the discrepancy, if not the magnitude.

By the way, hanks for your help.

Pat

From: Goldman, Irvin J Sent: Monday, April 02, 2012 1:42 AM To: Hagan, Patrick S Subject: RE: Final split?

Pat

There are two issues. 1) trying to understand the qr model is essential. 2) the firm (finance) has to sign off on the rwa for the quarter on the split front office chose from a risk perspective. Which is the original second split. Which I explained in the previous email. I think it's important for you to explain to Venkat and bruce broder that the additional analysis you seek is to understand the qr model not to come up with a new split which is no longer possible.

-----Original Message-----From: Hagan, Patrick S Sent: Sunday, April 01, 2012 08:32 PM Eastern Standard Time To: Goldman, Irvin J Subject: RE: Final split?

irv

Every way we look at the second split, the CRM should have come down by an esimated 10%. But it went up ... slightly on Mar 7 and then by 10%+ on Mar 21. This raises all sorts of red flags (ie, scares the heck out of me), since it means that we still only have a weak grasp of what is happening inside QR's model. Which means that we're unsure of which new positions would help our CRM/IRC and which will not help, or worse that we may get clobbered by the CRM one month out of the blue

From: Goldman, Irvin J Sent: Monday, April 02, 2012 1:16 AM To: Hagan, Patrick S Subject: RE: Final split?

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JPM-CIO-E 00033939

Hope you enjoyed your weekend. I think it's important for you to understand that was approved by ever

----Original Message----From: Hagan, Patrick S

Sent: Sunday, April 01, 2012 02:03 PM Eastern Standard Time To: Broder, Bruce, Venkatakrishnan, CS, Grout, Julien G; Iksil, Bruno M Cc: Goldman, Irvin J; Wilmot, John; Martin-Artajo, Javier X Subject: FW: Final split?

Bruce:

We still do not have the results needed to make a decision.

We did a first split with known results for March 7 and March 21.

We did a second split, of which we expected a reduction of 12.5% IRC for both portfolios, with the CRM decreasing by a lesser amount. The March 7 portfolio came back with a CRM at the same level. We are still waiting for the results to ensure that the IRC is 12.5% reduced from the first split. We am still waiting for the answer on this IRC.

When the CRM for Mar 21 was calculated, it came back 40% higher than before. We do not understand this number. Since then we have tried several variations on portfolio 2, and got back growing CRM numbers. We have not been able to make sense of the CRM. Fam still waiting on QR to ensure that the actual IRC is 12.5% lower.

Pat

From: Broder, Bruce
Sent: 01 April 2012 17:06
To: Hagan, Patrick S; Wilmot, John; Goldman, Irvin J; Venkatakrishnan, CS; Martin-Artajo, Javier X; Vigneron, Olivier X
Subject: Final split?

For perfect clarity, I am forwarding back what I understand has been selected as the final split. Please let me know if this is not the correct one. Otherwise, this is what we'll proceed with.

Thanks, Bruce

From: Hagan, Patrick S
Sent: Wednesday, March 28, 2012 08:45 PM
To: Bangia, Anil K; Broder, Bruce; Patel, Samir R
Cc: Iksil, Bruno M; Grout, Julien G; Martin-Artajo, Javier X
Subject: RE:

These are the positions to be formed into the IRC books of COB Mar 7th and COB Mar 21.

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JPM-CIO-E 00033940

Good night,

Pat

From: Bangia, Anil K Sent: Wednesday, March 28, 2012 10:56 PM To: Hagan, Patrick S Subject: RE:

No problem. I will be around late.

From: Hagan, Patrick S Sent: Wednesday, March 28, 2012 5:55 PM To: Bangia, Anil K

It's going to be a couple more hours before we can get you something trustworthy \dots

From: Bangia, Anil K Sent: Wednesday, March 28, 2012 10:54 PM To: Hagan, Patrick S Subject: RE:

I don't understand. Can you elaborate please? Is this a computation issue on your side? Is this a matter of re-running the IRC split?

From: Hagan, Patrick S Sent: Wednesday, March 28, 2012 4:59 PM To: Bangia, Anil K Subject:

We've got to start over on the Mar 7 and Mar 21 positions ... there's no way we can guarantee the correctness of what we're doing ...

Patrick S. Hagan Chief Investment Office, J.P. Morgan 100 Wood Street London EC2V 7AN United Kingdom

+44 (0)20 7777 1563 patrick.s.hagan@ipmorgan.com

From: Goldman, Irvin J <irvin.j.goldman@jpmchase.com>

Mon, 16 Apr 2012 19:02:50 GMT Sent:

To:

Zubrow, Barry L

- Valrow, Braunstein, Douglas

- Douglas Braunstein@jpmorgan.com>

- Wilmot, John < JOHN.WILMOT@jpmorgan.com>; Drew, Ina < Ina.Drew@jpmorgan.com> CC:

Subject: RE: Daily Risk Report

All.

Wanted to let you know that CIO is having a few hour post mortem session tomorrow in which we will be discussing the strategy going forward.

From: Zubrow, Barry L Sent: Monday, April 16, 2012 1:58 PM To: Hogan, John J.; Wilmot, John; Goldman, Irvin J Cc: Braunstein, Douglas Subject: RE: Daily Risk Report

Can I suggest that you start circulating something, even if not "perfect". No doubt it will be a work in progress.

You should also include progress on "tear ups"

Вапту

----Original Message-----

From: Hogan, John J.
Sent: Monday, April 16, 2012 01:55 PM Eastern Standard Time
To: Wilmot, John; Goldman, Irvin J

Cc: Braunstein, Douglas; Zubrow, Barry L

Subject: Daily Risk Report

John/Irv.

youanny.

As part of the daily risk report you guys are putting together, please show us a section which outlines the current trading strategy around risk managing the position, both now and over the next few months. We'd like to see a glide path of how this risk is going to come down through the December maturity.

Thanks,

John

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JPM-CIO-PSI-H 0000039

VAR METHODOLOGY

PATRICK S. HAGAN AND KEITH STEPHAN CHIEF INVESTMENT OFFICE JP MORGAN PATRICK.S.HAGAN@JPMORGAN.GOM KEITH.STEPHAN@JPMORGAN.COM

Abstract. We detail the VAR methodology for the CIO core credit books

- 1. Overview. Our core credit books are composed of credit derivative swaps on broad based indices (CDIs) and credit derivative swaps on tranches of broad-based indices (CDOs). The value of our credit derivative positions is driven by two primary factors:
 i) the overall widening and tightening of the credit spread curves. This determines the future (market implied) expected loss rates of the index, and thus the forward expected default probability curves implied by the market;
 ii) actual defaults and default payments.
 There are two other, more tactical, factors:
 (iii) stream-give and flattance of the accord curves. which determines the market's timing of the accorded.

- iii) steepening and flattening of the spread curves, which determines the market's timing of the expected
- losses; and iv) the distribution of expected losses among the different tranches of the capital structures. The market's represents the control of expected and junior tranches, or for the more senior tranches, relates to whether the market anticipates the index losses coming from relatively rare scenarios in which many names default, or from more common scenarios in which a few names default. Mathematically, this preference is quantified by

from more common scenarios in which a new names assessed to the vield curve. Interest rates the correlation.

Finally, there are two secondary risks:

(v) interest rate risks. Like all swaps, the value of future payments depends on the yield curve. Interest rates movements don't directly effect the amounts paid in to and out of our core books. So this risk is secondary to the spread and correlation risks, although not particularly small;

(vi) foreign exchange risks. Our core books own instruments denominated in Euros. As a dollar-based bank, we have risk to the Euro-(USD exchange rate on any unbedged portion of our book. Like most businesses, the month-end value of the Euro-denominated deals is bedged every month, so we only have FX risk to the profit/loss of the Euro-denominated instruments since the beginning of the current month.

Our approach to spread and correlation risk is based on the full revaluation of our books under specified scenarios; it is not based on extrapolating from the Greeks (deltas, gammas, ...) of our position. We choose not to use Greeks, because they only provide an approximate revaluation of our books, and it may be difficult to convince others (and ourselves!) that we had incorporated all the significant risks. E.g., are curve-flattener cross gamma terms, or default/delta cross terms negligible? Each such question could require a bistorical study to answer, but using full revaluations of our books renders all such questions moot.

Interest rate movements don't affect the amounts paid in to and out of the book. So, as detailed below, we calculate the additional VAR from interest rates from the PV01 of the book to 1y, 2y, 3y, 5y, 7y, and 10y par swap rate shifts. Similarly, the FX VaR will be calculated from the value of the unhedged part of use Euro-denominated deals, which is generally the difference between the current value of these deals, and their value at the last month end.

2. VAR. Our VAR will be based on the 264 scenarios determined by the daily market movements over the last calendar year. The deliy market movements (spread changes, correlation changes, and defaults) will be applied to today's market to get 264 possible scenarios for tomorrow's market. Out of these 264 one day scenarios, the average loss over the worst seven scenarios is our "99 VaR."

One way to view this procedure, is as a Monte Carlo simulation of possible one day PNL. Instead of using a theoretical distilution of spread and correlation moves, which could easily overlook subtle interactions between different market variables, we use an empirical distribution determined by the actual market

movements over the past year. The purpose of the historical data, then, is to provide a bias-free sampling of the correct, empirical distribution.

Let t_0 be today, and consider a specific index A (e.g., CDX HY series 10). We strip the end-of-day price quotes for the CD swaps on index A to obtain today's survival curve $Q_{\rm bare}^A(T)$ and hazard rate curve $h_{\rm bare}^A(t)$ for this index:

- $Q^{A}_{base}(T) = e^{-\int_{t_0}^T h^{A}_{base}(T')dT'} = \text{expected fraction on index surviving at least to } T;$
- $h_{base}^A(T) = \text{hazard rate} = \text{ rate of default at } T, \text{ given survival until } T.$

Currently we use piecewise constant hazard rates h(T) in our stripping procedure, with the nodes corresponding to the maturity dates of the CD index swaps used in the stripping process. This gives us our base

For each date t_i over the past year, we strip the market's CD swap quotes for that date t_i to obtain the survival and hazard rate curves as seen at date t_i :

- $Q^A(t_i;T) = e^{-\int_{t_i}^T h^A(t_i;T')dT'} = \text{expected fraction surviving to } T, \text{ as seen at date } t_i;$ (2.2a)
- $h^A(t_i;T) = \mbox{hazard}$ rate for date T as seen at date t_i (2.2b)
- (2,2c)= rate of default at T, given survival from t_i to T, as seen at date t_i .

Again, we find these survival and bazard rate curves by stripping the closing marks for the CD swaps on series A, as recorded on t_i . We use the same stripping procedure as before.

For date t_i , the market movement of index A's survival curve is

(2.3a)
$$\delta_i^A(T) = \frac{h^A(t_{i+1};T) - h^A(t_i;T)}{h^A(t_i;T)}$$

For the i^{th} scenario, we use the hazard rate curve

(2.3b)
$$h_i^A(T) = h_{bose}^A(T) \left\{ 1 + \delta_i^A(T) \right\} = h_{base}^A(T) \frac{h^A(t_{i+1}; T)}{h^A(t_i; T)};$$

$$Q_i^A(T) = e^{-\int_{t_0}^T h_i^A(T')dT'} = e^{-\int_{t_0}^T h_{h_{ast}}^A(T') \{h^A(t_{i+1},T')/h^A(t_i;T')\}dT'}$$
(2.3c)

for series A. That is, today's hazard rate curve is changed proportionately to the market movement on date

For each tranch B (e.g., the CDX HY series 15, 5Y, 0-10 tranch), let the attachment and detachment correlation be

using today's EOD marks. For each bistorical date t_i , let

$$\beta^{B,att}(t_i), \qquad \beta^{B,det}(t_i),$$

be the EOD attachment and detachment correlation for the tranch. Then the one day market movement for date i is

(2.5a)
$$\nu_i^{B,att} = \frac{\beta^{B,att}(t_{i+1}) - \beta^{B,att}(t_i)}{\beta^{B,att}(t_i)}$$

$$\begin{aligned} \nu_{i}^{B,\text{det}} &= \frac{\beta^{B,\text{det}}(t_{(1)}) - \beta^{B,\text{det}}(t_{(1)})}{\beta^{B,\text{det}}(t_{(1)})}, \\ (2.5b) &\qquad \nu_{i}^{B,\text{det}} &= \frac{\beta^{B,\text{dec}}(t_{(1)}) - \beta^{B,\text{dec}}(t_{(1)})}{\beta^{B,\text{dec}}(t_{(1)})}. \end{aligned}$$

For the i^{th} scenario, we use the attachment and detachment correlations

(2.6a)
$$\beta_i^{B,att} = \beta_{base}^{B,att} \left\{ 1 + \nu_i^{B,att} \right\} = \beta_{base}^{B,att} \frac{\beta^{B,att}(t_{i+1})}{\beta_i^{B,att}(t_i)}$$

For the i^{th} scenario, we will also apply any defaults that occur on date t_i . For each of the last 264 business days t_i , we will calculate the change to the current value of the core books under scenario i:

$$dV_i^{core} = V_i^{core} - V_i^{base}.$$

This provides the main risks of our books. Before we can find the worst seven outcomes and calculate the VAR99, we need to add the interest rate and FX components to the risk.

VARISE, we need to add the interest trate and TX components to the task.

2.1. Illiquid indices. Newly issued series do not have a year's history. For these we use the spread shifts $\delta_i^A(T)$, correlation shifts, $\iota_i^{B, ott}$, $\iota_i^{B, ott}$, $\iota_i^{B, ott}$, and any defaults from the most similar series which is liquid on the historical date t_i . For example, the desk currently has positions in CDX IG S17 and CDX HY S17. These series started trading on 9/20/2011. For historical dates between 3/20/2011 and 9/20/2011, we use the spread shifts $\delta_i^A(T)$ and correlation shifts, $\nu_i^{B, ott}$, $\nu_i^{B, ott}$, from the then-current series CDX IG S16 and CDX HY S16 as proxies for the S17 spread and correlation changes. Before 3/20/2011 (which was the first date S16 traded), we used CDX IG S15 and CDX HY S15 as the proxy.

The series in each family are issued every six months. If the desk were to trade each series when issued, then there could be at most two proxy time series for each family. Currently the desk has positions in CDX IG series 16 and series 17, CDX HY series 16 and series 17, and itracx series 15 and series 16, all of which require proxy time series.

IG series 16 and series 17, CDA Hy series 1b and series 17, and itraxx series 15 and series 16, all of which require proxy time series.

In addition, the historical market movements for some instruments on some dates are missing or unreliable due to market illiquidity. These too will be implied from the liquid market quotes at t_L. Currently we investigate whether a market quote as mis-mark when the change in the one day spread, attachment correlation, or detachment correlation exceeds 20%,

$$\begin{array}{c|c} (2.8a) & \left| \mathcal{S}_{i}^{A}(T) \right| > 20\% \, \right|, \\ \\ (2.8b) & \left| \nu_{i}^{B, att} \right| > 20\% \, \right| \text{ or } \left| \nu_{i}^{B, det} \right| > 20\% \, \right| \\ \end{array}$$

This figure was chosen because, after investigation, all changes of this size have proven to be market mis-quotes. Currently, out of a sample of 7,200 curves (288 days with 40 curves per day), we have 182 curves with problematic cutries that have been replaced with their liquid proxies.

series	oldest	other	total
CDX IG	11	12	23
Itraxx Main	14	15	29
CDX HY	59	69	118
other	1	1	2
total	85	97	182

Of these problematic curves, 85 are in the very oldest series, CDX IG series 7, CDX HY series 7, and IrraxX Main series 6. These series have the poorest liquidity, and their 3Y index swaps tend to have erratic prices because their very short maturity exacerbates market noise. Fortunately, we have very little exposure on these oldest swaps.



- 2.4. VAR and VAR capital. We follow the above procedure to calculate the change to the current value of the book under each scenarios: generated from the previous 264 days. VAR-99 will be the average of these daily returns over the 7 worst scenarios. The capital will then be calculated as √10 times this average to obtain the theoretical 10 day loss at the 99% confidence level. Besides publishing our stand-alone VAR number, we will also publish the entire P/L vector along with the dates t; of the market shift. This will for our VAR result to be diversified against other LOBs.
- 2.5. Results. The actual spread shifts and correlation shifts used for all the series and tranches are in the attached workbook HistVarRhiftsIsed.ts. The one day P/L outcomes for these scenarios are shown in the spreadsheet His VarPhVLvctors in the workbook CIOCopitalResults0111_09_30. The strategy-by-strategy and position-by-position breakdown of the P/L for the worst seven scenarios is shown in the His VarPreakdown sheet in the same workbook.
- 2.6. Critiques. The VAR obtained from these calculations is significantly higher than the desk's current VAR. This is because

- rent VAR. This is because

 a) our VAR calculations incorporate correlation movements as well spread movements. Although this could decrease the loss on any given day, including an extra source of variation generally raises the VAR;
 b) our full revaluation calculations incorporate gamma and cross-gamma effects (as well as all higher derivatives). Again, this can decrease or increase the outcome on any given day, but negative gamma positions tend to be exacerebated on the worst days;
 c) survival curves generally flatten the most when they are steep, and steepen the most when they are flat. Our methodology applies the steepening/flattening experienced on one date t_t to another date t_{hose}, without also accounting for the steepness or flatness of the curve on date t_{hose}. This tends to exagerate the influence curve steepening and flattening;

d) the desk's VAR calculations are based on street deltas, the deltas quoted by market makers, which are often more temperate than the deltas obtained theoretically. Our calculations are based on full revaluations, so they correspond to theoretical deltas;

 e) the survival curve and correlation shifts are obtained directly from our closing marks. The data quality

e) the survival curve and correlation shifts are obtained directly from our closing marks. The data quality is good for liquid indices where we have large positions, since we have good coverage from market makers in these positions. For less liquid series, for series in which we don't have a strong market presence, and for illiquid market days, the data quality is poorer. Again, extra noise can decrease or increase the outcome on any given day, but in general, extra noise leads to higher VAR.

Over the next few months we will be examining the market movement data, focussing on the worst days. By comparing our data with data from other databases, we will gradually eliminate the errors in our market data. All replacement of market data from our initial data set will be fully documented and sourced, so as to maintain objectivity.

All the above problems with our methodology generally lead to higher VAR, which is unsurprising since VAR can be considered as a measure of noise. Accordingly, we believe that our VAR-99 calculation is decidedly conservative.

VAR can be considered as a measure of noise. Accordingly, we believe that our VAR-99 calculation is decidedly conservative.

Yield curve movements and changes in the FX rate do not directly affect the physical payments into and out of our core books, so the value of our core credit position is nearly linear in the interest rate and FX risks. Accordingly, these secondary risks (interest rate and FX) are being calculated by matching the linear (delta) risks. This neglects second order risks: interest rate gamma, FX gamma, interest rate/spread cross gamma terms, ... We believe this is justified by the small size of the interest rate and FX risks, as well as by the near-linearity of the book values to these risks.

In developing this methodology, we chose to use relative spread and correlation changes,

(2.12a)
$$h_i^A(T) = h_{base}^A(T) \frac{h^A(t_{i+1};T)}{h^A(t_i;T)},$$
(2.12b)
$$\beta_i^{B,att} = \beta_{base}^B(T) \frac{\beta^{B,att}(t_{i+1};T)}{h^B(t_{i+1};T)},$$
(2.12c)
$$\beta_i^{B,det} = \beta_{base}^B(T) \frac{\beta^{B,att}(t_{i+1};T)}{h^B(t_{i+1};T)},$$

(2.12b)
$$\beta_i^{B,att} = \beta_{base}^{B,att} \frac{\beta_i^{B,att}(t_i)}{\beta_i^{B,att}(t_i)},$$

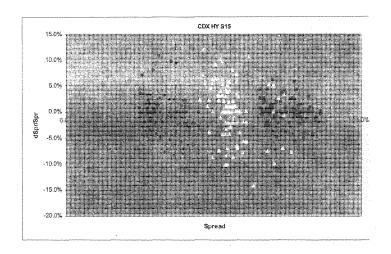
(2.12c)
$$\beta_i^{B,\text{det}} = \beta_{\text{base}}^{B,\text{det}} \frac{\beta^{B,\text{det}}(t_{i+1})}{\beta^{B,\text{det}}(t_i)}$$

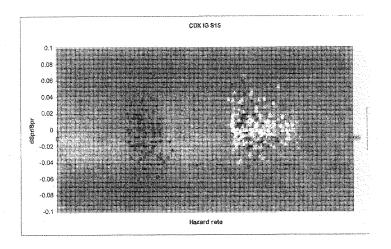
instead of absolute changes,

(2.13a)
$$h_i^A(T) = h_{base}^A(T) + \left\{ h^A(t_{i+1}; T) - h^A(t_i; T) \right\},$$

$$\beta_i^{B,\text{det}} = \beta_{bose}^{B,\text{det}} + \beta^{B,\text{det}}(t_{i+1}) - \beta^{B,\text{det}}(t_i),$$

Since neither the spreads nor the correlations must remain positive, we believe that using relative changes is theoretically sounder that using absolute changes. Also, the size of the relative changes seems to be the same regardless of the size of the spread itself. For example, in the graphs below, the HY spreads are about four times larger than the IG spreads, but the relative changes are similar in size. Finally, using the relative correlation changes allows us to compare different models against each other.





From: Drew, Ina <Ina.Drew@jpmorgan.com>
Sent: Mon, 09 Jan 2012 23:05:23 GMT

To: Wilmot, John < JOHN.WILMOT@jpmorgan.com>

Subject: Re; CRM results for Q4

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Its very important since if we can spare some deleveraging (assuming we believe the risk profile. We pick up 100 - 250 mil in carry and more optionity. Even with vars stress, this groutcome will bring the total away down, I want to get a handle on it before they deleverage.

From: Wilmot, John To: Drew, Ina Sent: Mon Jan 09 18:00:17 2012 Subject: RE: CRM results for Q4

I don't believe this includes VaR and Stress VaR. My conversation with Pete this morning suggested we were coming about spot on for the RWA for this book(CRM was a bit better, basically through higher diversification benefit, not risk reduction – but that was offset by higher stress VaR in December). I will reconfirm with Pete.

John C. Wilmot | Chief Investment Office | 🖸 john.wilmot@jpmorgan.com | 🖼 Work: (212) 834-5452 | 😭 Cell:

From: Drew, Ina Sent: Monday, January 09, 2012 5:55 PM To: Wilmot, John Subject: Fw: CRM results for Q4

This baffles me. We put in 41 bil. We now look wrong on the low side and on the high side.

From: Drew, Ina To: 'macris@ Sent: Mon Jan 09 17:26:13 2012 Subject: Re: CRM results for Q4

We may not need to detevarage as much but we sure better pin down as you say to be certain

From: macris@ To: Drew, Ina Sent: Mon Jan 09 17:13:43 2012 Subject: CRM results for Q4

A beneficial result but it is still "random". The real work needs to done to pin the number to knowable variables

From: Enfield, Keith [mailto:Keith.Enfield@jpmorgan.com]
Sent: 09 January 2012 15:22
To: Macris, Achilles O; macris@btinternet.com
Cc: Giovannetti, Alison C; Iksil, Bruno M; Hagan, Patrick S; Martin-Artajo, Javier X
Subject: CRM results for Q4

Achilles,

As mentioned, the Q4 CRM model output for CIO is \$26.4 bn compared to \$41.5 bn in Q3. The firm is now combining CIO's results with the IB's so we are getting a diversification benefit which reduces the number further to \$18.3 bn.

Regards, Keith.

JPM-CIO-PSI 0000074

From: Iksil, Bruno M <bruno.m.iksil@jpmchase.com>

Sent: Tue, 10 Jan 2012 19:37:05 GMT

Stephan, Keith <keith.stephan@jpmorgan.com> To:

Subject: RE: CRM results for Q4

yes I will show you tomorrow how the book has changed between end of dec and now.

I am much less short.

I need now the rwa marginals so that I can do the proper trades, je trades less stupid than go long like all of us, and instead create tail upside while minimizing the rwa, no matter where the var sits, because the chance is that the higher my var the lower the aggregate var for whole cio.

From: Stephan, Keith Sent: 10 January 2012 19:29 To: Iksil, Bruno M Subject: FW: CRM results for Q4

More on the same topic.

From: Weiland, Peter
Sent: 10 January 2012 19:26
To: Martin-Artajo, Javier X
Cc: Stephan, Kethr; Giovannetti, Alison C; Wilmot, John; Hagan, Patrick S; Alexander, David M; Gandhi, Samir X
Subject: PW: CRM results for Q4

· Hi Javier --

Keith Stephan said you are waiting for some data from me on RWA, so I wanted to be sure that you saw the email I sent you yesterday (below).

That said, I have tried to pull together a more organized and complete picture of the components of the tranche RWA for 4Q:

The final actual RWA of \$36.2B is at the top end of the range I estimated in November of \$31.5-36.0B, which came from the components:

VaR \$3.5-5.0B

JPM-CIO-PSI 0000083

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Stress VaR \$8.0-11.0B CRM \$20.0B (diversified)

I'll discuss this Thursday at SAA, but there were two components that affected the final figure for 4Q:

- The actual diversification factor (relative to iB) came to 31% rather than 25%, reducing CRM compared to estimate
- VaR and stress VaR increased significantly in December increasing those components compared to the estimate

The December data and the trend in tranche VaR recently point toward increased RWA for 1Q. We should discuss.

I continue to plug away with QR to try to bring our views and theirs into alignment, and as I say below I think there are important issues that QR needs to explain with respect to methodology.

Pete

Peter Weiland J.P.Morgan | Chief Investment Office | 270 Park Ave. | 😿 Tel: +1 212 834 5549 | 🕿 Cell: + peter.weiland@inmorgan.com

From: Welland, Peter Sent: Monday, January 09, 2012 12:38 PM To: Martin-Artajo, Javier X Subject: RE: CRM results for Q4

Thanks Javier. Happy 2012 to you. I look forward to seeing you early next month.

The below is very much in line with all the discussions we had toward the end of 2011, the only material difference being that the diversification factor used came to 31% instead of the 25% I had used to estimate (resulting in \$18.3B CRM RWA rather than the \$20B I had estimated). The \$26.4B standalone is pretty much where we were expecting it to land.

I have been trying to get the dialogue going between Pat and QR on the topic of what Pat calls "re-centering" and what they call "de-meaning". This is the big methodological sticking point I think. I will talk to QR this week and get some conversations set up.

Pete

Peter Weiland | J.P.Morgan | Chief Investment Office | 270 Purk Ave. | 宮 Tel: +1 212 834 5549 | 달 Celi: + peter weiland@ipmorgan.com

From: Martin-Artajo, Javier X Sent: Monday, January 09, 2012 11:50 AM To: Weiland, Peter Subject: FW: CRM results for Q4

Pete,

Happy new year first of all ,

Can you give me more info regarding this below?

regards

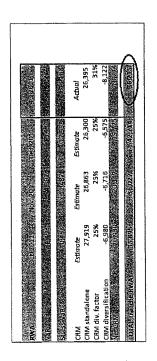
Redacted by the Permanent
Subcommittee on Investigation

From: Enfield, Keith
Sent: 09 January 2012 15:22
To: Macris, Achilles O; macris@
Cc: Giovannetti, Alison C; Jissil, Bruno M; Hagan, Patrick S; Martin-Artajo, Javier X
Subject: CRM results for Q4

Achilles,

As mentioned, the Q4 CRM model output for CIO is \$ 26.4 bn compared to \$ 41.5 bn in Q3. The firm is now combining CIO's results with the IB's so we are getting a diversification benefit which reduces the number further to \$ 18.3 bn.

Regards, Keith



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JPM-CIO 0000086

JPM-CIO-PSI 0000086

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From: Macris, Achilles O <achilles.o.macris@jpmorgan.com>

Fri, 20 Jan 2012 14:49:17 GMT Sent:

Drew, Ina <Ina Drew@jpmorgan.com> To:

Subject: VaR

Hi Ina,

Our VaR will be per below at month-end (\$57m -- or below) -- however:

Look at the new model for VAR . Firm down but mVAR for IB from capital hopefully End of Q1.

Best,

Achilles

From: Lee, Janet X
Sent: 20 January 2012 13:54
To: Stephan, Keith, Goldman, Irvin J; Weiland, Peter
Cc: Martin-Artajo, Javier X; Macris, Achilles O; Kallimtgis, Evan
Subject: RE: Breach of firm var

For point 3, please see table attached for details of impact analysis on cob 01/18 using the new model's results. The synthetic book's VaR drops from \$98mm to \$53mm. Firmwide VaR will see a 29% reduction from \$138mm to \$98mm, back under the \$125mm limit. CIO VaR will see a reduction of 44% to \$57mm, back under the \$95mm limit.

18/01/2012	Current 10QVaR	Current 10QmVaR	NewModel 10QVaR	New Model 100
Firmwide	137,961,472	137,961,472	98,456,554	98,456
Iny Bank Regional				
CIO .	102,385,406	85,490,464	57,183,430	32,103
CIO International	100,778,451	82,272,976	56,421,966	28,199
CIO EMEA	100,328,172	80,924,464	55,936,163	26,847
CIO CREDIT EMEA	99,879,941	78,319,448	54,960,953	24,071
CIO CORE CREDIT	97 176 584	73.183.992	53.110.655	20.153

Thanks,

Janet Lee Chief Investment Office JPMorganChase Phone: +44 (0)207 777 2174 Email: <u>imet.x.lee@hpmchase.com</u>

From: Stephan, Keith
Sent: 20 January 2012 12:02
To: Goldman, Irvin J; Weiland, Peter
Cc: Martin-Artajo, Javier X; Macris, Achilles O; Kalimtgis, Evan
Subject: FW: Breach of firm var
Importance: High

Irv & Pete

Below please find details of the VaR limit breach. The VaR increase is driven by Core Credit (tranche) in EMEA. The VaR has increased steadily since the end of December as positions in CDX.HY on-the-run indices have been added to the portfolio to balance the book, which has been taken longer risk since the expiry of CDX.HY.11 3Y positions which matured 21 Dec 2011.

Key Points:

- The increase in VaR is largely attributed to increased short risk positions in CDX.HY indices which we
 have discussed w/ the desk and which were added specifically to reduce the outright long CS01 profile
 of the book (as we are additionally over the MtM CS01 limit and actively reducing this risk to move
 within the 55MM CS01 threshold)
- 2. We are reviewing the details of the current VaR number and actively working with the desk to reduce the current VaR based on current marginals, while continuing to address the CS01 as above; N.B. the action taken thus far has further contributed to the Positive Stress benefit in the Credit Crisis (Large Elatteries Sell-off) for this portfolio, which has increased from +51 dbin for 17-19 Jan.
- Flattening Sell-off) for this portfolio which has increased from +\$1.4bio to +\$1.6bio from 17-19 Jan.

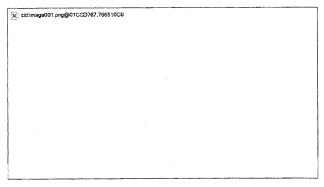
 3. We are in late stages of model approval for full revaluation which will have the effect reducing the standalone VaR for Core Credit from circa \$96MM to approx \$70MM impact analysis on the marginal contribution to the Firm is ongoing and will be distributed later today.

i expect that we will resolve through active risk management the breach of VaR limit using current method over the next two trading sessions, depending on liquidity.

Furthermore, I believe that the process of model approval is nearing completion and that this will be implemented in the next 1-2wks in production.

My recommendation therefore is that we do not address, nor upsize the limit for CIO – but that we continue to work in partnership with the desk to manage to the current \$95mm limit over the next two to three trading sessions – and that we discuss further with the model review group (MRG) today the schedule for completion of approval of the new model with a view toward implementation next week if possible. My team and I are disaggregating strategy level marginal VaR (reported daily) to the level of position / instrument level marginal VaR to provide the desk with precise list of actions that can be taken to most effectively reduce VaR while maintaining balance of other risk measures. This will be complete by mid-afternoon London time today.

Evolution of Current VaR using production model:



The details of the drivers of the VaR increases, using current model for measurement are as follows: <u>lan18 to Jon19 (from \$94,7mm to \$98.6mm) - +\$3.8mm move:</u>
1) +4mm from Stg 15D – Increased HY14 – HY16 short risk position by \$1.075bn

- <u>Jon17 to Jon18 (from \$91.8mm to \$94.7mm) +\$3mm move:</u>

 1) +2mm from Stg 18US Increased IG17 SY short risk position by \$2.25bh
 2) +1mm from Stg 14EU Increased Rraxx MN16 long risk position by \$785mm

<u>[an16 to lan17 (from \$96mm to \$91.8mm) - (\$4mm) move:</u>
1)-4mm from Stg 150: Reduced HY17 Index short risk position by \$1.3bn

<u>Jan06 to Jan16 (from \$93mm to \$96mm) - +\$3mm move:</u>
1) +3mm from Stg 15D
Increase in HY Index short risk positions of \$1.1bn [HY14\$300mm, HY15 \$250mm, HY16 \$450mm, HY17

Increase in HY Index short risk positions of \$1.1bn {HY14\$300mm, HY15 \$250mm, HY16 \$450mm, HY17 \$50mm}

2) +2mm from Stg 18US
Increase in K95 10Y Index long risk by \$5.7bn
Increase in IG17 SY short risk position by \$3.0bn provides diversification

3) +1mm from Stg 14EU
Decrease in MN9 SY Index long risk position by \$7.25bn
Decrease in MN9 SY Index long risk position by \$7.25bn
Decrease in MN Outright Index short positions provide diversification (\$15-516 5/10Y - net decrease of \$775mm

40.3mm from worst day collefts (\$5^0 19th and 29th days)

4) -3mm from worst day rolloffs (5th, 19th and 29th days)

- Dec 21 to Jan06 (from \$76mm to \$93mm) \$17mm move;

 1) \$1g 150 \$14mm (Increased short risk positions across HY14-HY17 by \$2.65bn)
 2) \$1g 18U5 \$1mm
 3) \$1g 270 \$2mm (reduced Long risk pos in HY10 7Y + Price tightening in recent weeks meant that this position delivered positive offset on worst days
 4) Note: 14EU does have a net increase in XO16 pos by \$260mm but increase in MN16 long risk pos by \$2.0bn more than offsets the var moves from XO.

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From: Goldman, Irvin J Sent: 20 January 2012 03:08 To: Stephan, Kethy Welland, Peter Cz: Macris, Achilles O; Martin-Artajo, Javier X; Kalimtgis, Evan Subject: Breach of firm var

All,
This is the third consecutive breach notice (below) that has gone to Jamie and OC members. We need to
get Ina specific answers to the cause of the breach, how it will be resolved and by when. She requested
the answers today -Friday and would like Achilles and Javier to vett the international credit

Firmwide 95% 10Q VaR

• The Firm's 95% 10Q VaR as of cob 01/18/2012 has increased by \$5mm from the prior day's VaR to \$138mm and has breached the \$125mm Firm VaR limit for the third consecutive day.

• CIO's 95% 10Q VaR as of cob 01/18/2012 has increased by \$7mm from the prior day's VaR to \$102mm and has breached the \$95mm CIO VaR limit for the third consecutive day.

• The increase in the Firm's VaR is primarily driven by an overall reduction in diversification benefit across the Firm and position changes in CIO and MSR.

• Each LOB's contribution to the Firm's \$138mm VaR (as shown by marginal VaR) are: IB

CIO (\$85mm

and AM is

mVaR, primarily driven by CIO International credit tranche book), RFS , Private Equity

nd TSS The stand alone VaR for each LOB are as follows: IB is

CIO is \$102mm TSS is 🚚 Private Equity is

(vs. \$95mm limit), RFS is

10Q Externally Disclosed VaR The below table shows the 95% 10Q VaR for the current quarter compared with the prior quarter and the corresponding quarter of prior year.

Please contact the MRM External Reporting team with any questions.

From: Martin-Artajo, Javier X <javier.x.martin-artaĵo@jpmorgan.com>

Sent: Tue, 24 Jan 2012 10:44:33 GMT

To: Weiland, Peter <peter.weiland@jpmchase.com>

Wilmot, John <JOHN.WILMOT@jpmorgan.com>; Goldman, Irvin J CC:

<irvin.j.goldman@jpmchase.com>

Subject: RE: Credit book Decision Table - Scenario clarification

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Sure. Let me know when it suits you I am available today in the afternoon.

From: Weiland, Peter Sent: 23 January 2012 18:10
To: Martin-Artajo, Javier X
Cc: Wilmot, John; Goldman, Irvin J Subject: RE: Credit book Decision Table - Scenario clarification

Hi lavier -

John, Irv, and I spent some time reviewing your decision table this morning. Can we set up a time to discuss with you? And probably we should include Keith Stephan and Bruno?

Pete

Peter Weiland J.P.Morgan | Chief Investment Office | 270 Park Ave. | 22 Tel: +1 212 834 5549 | Cell: +1 peter.weiland@jpmorgan.com

From: Martin-Artajo, Javier X Sent: Thursday, January 19, 2012 9:02 AM To: Drew, Ina; Wilmot, John Cc: Macris, Achilles O; Weiland, Peter Subject: Credit book Decision Table - Scenario clarification

lna,

as a follow up from yesterdays conversation regarding the tranche book I would like to further clarify the different scenarios and assumptions for each of them.

The first scenario is the one discussed when you were in London an is a scenario that we reduce our book to the agreed target at year end 2012 of 20.5 8In but the current model used by QR remains . This would need the path of reduction to be to reduce the RWA using a strategy that postions the book for maximum carry and would have high trading costs and a higher risk profile so that we could have also a large drawdown .

The second scenario or Central Scenario discussed with you and John Wilmot is a scenario that we meet the year end target by opportunistically reducing the necessary legs and optimization is used following the current QR model guidelines and assumes that we get a reduction on the cost of capital using the new $\ensuremath{\mathsf{VAR}}$.

 $The third \, scenario \, is \, posible \, if \, we \, get \, the \, new \, model \, but \, we \, do \, not \, get \, diversification \, and \, we \, would \, reconsider \, .$

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The fourth scenario is our Target scenario and the one we are hoping to implement again by midyear .

Let me know if you want to further discuss .

Best regards

Javier

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From: Drew, Ina <Ina.Drew@jpmorgan.com>

Sent: Wed, 25 Jan 2012 21:36:46 GMT

To:

Wed, 25 Jan 2012 21:30:40 GM1

MRM Reporting <mrm.reporting@jpmchase.com>; Weiland, Peter
<peter.weiland@jpmchase.com>; Macris, Achilles O <achilles.o.macris@jpmorgan.com>
Goldman, Irvin J <irvin.j.goldman@jpmchase.com>; Doyle, Robin A.
<Robin.A.Doyle@chase.com>; MRM Firmwide Reporting
<MRM_Firmwide_Reporting@jpmorgan.com>; MRM CIO Europe
<MRM_CIO_Burope@restricted.chase.com>; MRM CIO Asia
<MRM_CIO_Asia@restricted.chase.com>; Intraspect - LIMITS <Intraspect - LIMITS </p>

CC:

_LIMITS@restricted.chase.com>

Subject: RE: ACTION NEEDED: CIO International-One-off Limits Approval

From: MRM Reporting
Sent: Wednesday, January 25, 2012 4:25 PM
To: Weiland, Peter; Drew, Ina; Macris, Achilles O
C:: Goldman, Jrvin J; Doyle, Robin A.; MRM Reporting; MRM Firmwide Reporting; MRM CIO Europe; MRM CIO
Asia; Intraspect - LIMITS
Subject: ACTION NEEDED: CIO International-One-off Limits Approval

Pete/Ina/Achilles.

This email is to request for your approval to temporarily increase the following CIO International Limits until January 31st, 2012.

LOB	Limit Type	Current Limit	Proposed One-Off Limit
CIO	CIO - Intl - International - Aggregate - Total VaR	\$100mm	\$110mm
CIO	CIO - Int'l - 10Q - Credit VAR	\$95mm	\$110mm
CIO	CIO - Int'l - Aggregate - Credit VAR	\$100mm	\$110mm
CIO	CIO - International - 10Q - Total VAR	\$95mm	\$110mm

CIO 95% VaR has become elevated as CIO balances credit protection and management of its Basel III RWA. In so doing, CIO has increased its overall credit spread protection (the action taken thus far has further contributed to the positive stress benefit in the Credit Crisis (Large Flattening Sell-off) for this portfolio which has increased from +\$1.4bn to +\$1.5bn) while increasing VaR during the breach period.

Action has been taken to reduce the VaR and will continue. In addition, CIO has developed an

improved VaR model for synthetic credit and has been working with MRG to gain approval, which is expected to be implemented by the end of January.

The impact of the new VaR model based on Jan. 18 data will be a reduction of CIO VaR by 44% to \$57mm.

If more information is required, please let us know and we will arrange to provide further details.

Upon receipt of your approval, the above proposed limits will be effective immediately.

If you approve of the above limit changes, please reply to all with your approval. Thank you.

From: Drew, Ina <Ina.Drew@jpmorgan.com> Sent: Thu, 08 Mar 2012 19:16:27 GMT

Martin-Artajo, Javier X < javier x.martin-artajo@jpmorgan.com> To:

Macris, Achilles O <achilles.o.macris@jpmorgan.com>; Wilmot, John <JOHN.WILMOT@jpmorgan.com>; Goldman, Irvin J <irvin.j.goldman@jpmchase.com>;

Weiland, Peter <peter.weiland@jpmchase.com>

Subject: Re: CIO CRM results

Ok, Glad to see a formal process started, Update us as things develop. Thanks,

From: Martin-Artajo, Javier X

To: Drew, Ina Cc: Macris, Achilles O; Wilmot, John; Goldman, Irvin J; Weiland, Peter Sent: Thu Mar 08 13:19:02 2012

Subject: RE: CIO CRM results

they agree with us that we need to change both model and inputs as discussed in our SAA session, but we have

So , this means that we will have closer numbers to the average CRM of the last three months so we will be somewhere below the aggreed number of 36 Bin for overall RWA (they will publish this tonight to us to have a sense of the improvement) but not lower than 30 Billion until we agree on how the model should look to model the actual CIO risk since it is significantly diffent from the IB. We are not going to do yet with the CRM RWA yet what we have done with the VAR that is to challenge the current methodology and have the model changed . It would not be done by the end of the quarter for sure .

regards

From: Drew, Ina Sent: 08 March 2012 18:01 To: Martin-Artajo, Javier X C:: Macris, Achilles O; Wifmot, John; Goldman, Irvin J; Weiland, Peter Subject: Re: CIO CRM results

What does it mean accept numbers for this month. What is the rwa result

From: Martin-Artajo, Javier X
To: Drew, Ina; Hogan, John J.; Venkatakrishnan, CS
Cc: Macris, Achilles O; Weiland, Peter; Goldman, Irvin J; Bacon, Ashley

Sent: Thu Mar 08 12:53:01 2012 Subject: CIO CRM results

I just had a meeting with Venkat to agree on the next steps to reconcile our differences regarding the CRM RWA in the following way :

- 1. We are going to accept current CRM model and its parameters this month and therefore for Q1 and will work first on how does this model behave as It is.
 2. In order to calculate current CRM for all the correlation tranches risk and hedges that we have we are going to run our CIO portfolio with Yenkat's team next week on a daily basis to make sure that we have a more systematic analysis behaviour of the model for our own portfolio and compare the results with the previous

So we will appoint Anil Bangia and Pat Hagan to work together on the Quantitative side and on the business side Bruno iksil will coordinate on our side with .

We will compare results at the end of next week and will share the new results .

From: Drew, Ina
Sent: 08 March 2012 00:33
To: Venkatakrishnan, CS; Hogan, John J.; Bacon, Ashley; Goldman, Irvin J; Weiland, Peter
Cc: Macris, Athlies C; Martin-Artajo, Javier X
Subject: Re: CIO CRM results

I will discuss with Javier and Achilles tomorrow to reconcile . Thank you for prioritizing. From what I understand there is a difference in view on the underlying model - position increase aside.

From: Venkatakrishnan, CS To: Drew, Ina; Hogan, John J.; Bacon, Ashley; Goldman, Irvin J; Weiland, Peter Sent: Wed Mar 07 19:12:25 2012 Subject: Fw: CIO CRM results

There are two related issues. The first is the \$3bn increase in CRM RWA between Jan and Feb, from \$3.1bn to \$6.3bn. The second is that your group believes that the absolute level of CRM RWA we calculate was high to begin with in Jan. The second question requires us to explain our models to the satisfaction of your team. I am in London and spoke with Javier today and we will make this an urgent matter.

Based on our models, though, we believe that the \$3bn increase in RWA is entirely explained by a \$33bn notional increase in short protection (long risk) in your portfolio between Jan and Feb. See table below.

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Peter Weiland and your mid-office confirm this \$33bn notional increase in long index risk. Further we both agree that this position change results in a change of about \$150mm (a decrease) in 10%CSW. Per our models, a roughly 10% capital charge (\$3bn) on this \$33bn increase in risk is reasonable.

Also, to be clear, there has been no model change on our end; the change in RWA for tranches has hardly changed over the month. $\frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) \left(\frac{1}$

I understand that we need to build your confidence in our models themselves but, given our models, we believe the increase in RWA is well explained by the build up in your risk positions.

I will call you tomorrow from London to follow up, but you can reach me at

Thanks,

Venkat

From: Bangia, Anil K Sent: Wednesday, March 07, 2012 06:35 PM To: Venkatakrishnan, CS Subject: CIO CRM results

Standalone CRM (\$MM) Jan 18th 3,154 2,043 651 4,037 Jan 18th Feb 22nd Position Increase Jan 18th Feb 22n All CIO Positions
Index CDS: All Positions
Index CDS: Common Positions
Index CDS: Rolloff Positions* 25,291 16,833 15817 1,018 Index CDS: Read of Positions
Index CDS: New Positions
Index Tranche: All Positions
Index Tranche: Common Positions
Index Tranche: Rolloff Positions*
Index Tranche; New Positions 88,518 33,527 9,579 2,818 2,174 2,814 1,972 1,484 42. 1,418

^{*} Includes 421 Dummy PCM Trades that were removed from PCM feed (4 CDS/227 Index CDS/190 Tranches)

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Sent:	Fri, 09 Mar 2012 21:51:16 GMT
To:	Hogan, John J. <john.j.hogan@ipmorgan.com></john.j.hogan@ipmorgan.com>
CC:	MRM External Reporting <mrm_external_reporting@ipmchase.com>; Bacon, Ashley</mrm_external_reporting@ipmchase.com>
	<ashley.bacon@jpmorgan.com>; Doyle, Robin A. <robin.a.doyle@chase.com></robin.a.doyle@chase.com></ashley.bacon@jpmorgan.com>
Subject	RE: Firmwide VaR overlimit
Understoo	d John.
tegards,	
avine	
	21 C
	nî Corporate Market Risk Reporting T: 212-270-1369 (midtown); 212-623-6835 (downtown) M: ni@iomchase.com
CC: MRM E	ny, March 09, 2012 4:46 PM , Lavine; Bacon, Ashley; Doyle, Robin A.; GREEN, IAN; Waring, Mick; Weiland, Peter sternal Reporting E: Firmwide VAR overlimit
Cc: MRM E Subject: F	, Lavine; Bacon, Ashley; Doyle, Robin A.; GREEN, IAN; Waring, Mick; Weiland, Peter xternal Reporting
Cc: MRM E Subject: F Thanks—I	, Lavine; Bacon, Ashley; Doyle, Robin A.; GREEN, JAN; Waring, Mick; Weiland, Peter xternal Reporting E: Firmwide VaR overlimit
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Sent: Friday, March 09, 2012 2:01 PM To: Doyle, Robin A.; Hogan, John J.; GREEN, IAN; Waring, Mick; Weiland, Peter Cc: Surtani, Lavine Subject: Re: Firmwide VaR overlimit

As discussed, I think that's reasonable, and would not be surprised if we get there (or indeed go back to 110). I think seeing it moving over these ranges is not a cause for concern, but we will continue to look into the diversification swings as they happen. Thanks

From: Doyle, Robin A.
Sent: Friday, March 09, 2012 06:29 PM
To: Bacon, Ashley; Hogan, John J.; GREEN, IAN; Waring, Mick; Welland, Peter
C:: Surtani, Lavine
Subject: Firmwide VaR overlimit

All,

Spoke with John...he'd like to raise the limit incrementally...so we are thinking about \$150 to start. Can we work with this? If yes, Lavine and team will get a memo drafted for approvals.

Let me know

Robin

From: Bacon, Ashley Sent: Thursday, March 08, 2012 1:41 PM To: Hogan, John J.; GREEN, IAN; Waring, Mick; Weiland, Peter Cc: Doyle, Robin A. Subject: Firmwide VaR overlimit

John, calibrating a new VaR limit for the Firm requires us to take a view on the % of their limit each LOB consumes, and how diversified the aggregate portfolio is in the VaR look-back period. Ian created the table below covering this

Firmwide diversification has fallen to around 20 % partly on account of CIO buying some risk back in the MTM book and the IB getting longer of equity delta with less gamma. As always it is hard to pin down diversification changes with a full and intuitive explanation.

Recent average firmwide diversification has been more like 30%, Also CIO is contemplating a possible reduction in VaR limit to \$70mil (factored in here, but not yet agreed). I would suggest we set a limit to accommodate diversification staying where it is with a 20 point increase in average utilization - so \$175mil.

Ian, Mick, Pete, please jump in if you disagree.

Ashley

Required limit \$mm	Assumed div score %							
% of LOB limit	15	18	20	25	30	40	50	55
100	213	205	200	188	.75.	150	125	113
95	202	195	190	178	100	143	119	107
90	191	185	180	169		135	113	101

85	181	174	170	159	5.47	128	106	96	-
80	170	164	160	150	197	120	100	90	Ì
75	159	154	150	141		113	94	84	١
70	149	144	140	131	1000	105	88	79	ı
65	138		130	122	114	98	81	73	-
60	128	123	120	113	105	90	75	68	-
55	117	113	110	103	96	83	69	62	-
53	113	109	106	99	03	80	66	6Ω	ı

From: Iksil, Bruno M <bruno.m.iksil@jpmchase.com>

Sent: Thu, 15 Mar 2012 18:45:25 GMT

To: Martin-Artajo, Javier X < javier.x.martin-artajo@jpmorgan.com>

Subject: Update on core

The divergence increases between crude mid prices and our estimate. Julien will send a small spreasheet recording the breadown of the divergence per blocks.

The ig9 10yrs lags another bp today. The hy market struggles to keep the rally pace with the sp500. Rescap curve is now flat at 65pts upfront. The equity tranches are fully impacted now. Yet the hy indices keep performing well.

Since month end, despite rescap event and greece, xover in itraxx and hy in cdx have maintained their ratio versus ig rally. That is 4bps tighter for ig17, 5 bps for main s16, 21 bps for xover and 20-25 bps for hy (if one adds the loss in rescap that is prices as certain now ie 75cts in price). In that regard, we keep the ig9 10 as performing like the market beta adjusted.

The whole ig9 curve should have outperformed actually if we look at the performance of radian and mbia or sfi. This is reflected in the ig9 5yr that has tightened 10bps, but not in ig9 10yr that has tightened less than 1 bps by the quotes we receive. What is really puzzling here is that the skew quotes have not changed! The cds outperformance and index underperformance should have tightened the skew.

We look at what we could do the reduce the difference while not growing the positions especially in ig9. The solutions are very limited: some main s9 trades could help, some hy trades too but the principal lag is where we do not want to add.

What I do right now is buying 0-3 7yr and 10yr in order to smooth the extinction of the book. This will be may be the solution: let the book run off. So I prepare it for this outcome. So far I did not show up in the index market. Just testing waters. I may not find size but the trading cost is high, not only the bid ask but the almost infinite ability of the dealers to twist their runs.

Best regards

Bruno

From: Martin-Artajo, Javier X <javier.x.martin-artajo@jpmorgan.com>

Sent: Fri, 16 Mar 2012 11:59:31 GMT

Iksil, Bruno M <bruno.m.iksil@jpmchase.com>

Subject: RE: trade ideas on core

Sorry Bruno about the previous call . Calling you now .

From: Iksii, Bruno M Sent: 16 March 2012 06:42 To: Martin-Artajo, Javier X Cc: Grout, Julien G; Hagan, Patrick S Subject: trade Ideas on core

I thought this night that we should consider putting some skew trades on both in ig9 10yr and itraxx mains9 10yr: we could lock 60cts over good size I think.

This would maintain the upside on default, improve the carry and basically offset the loss we have now.

As I mentionned vesterday, despite the rally in Radian, MBIA and SFI, despite the lag in the IG9 10yr index, the skew has barely changed.

It shows to me a puzzling obstination on dealer side to keep it like that. Because this cannot be the result of a HF holding the market on its own alone.

This trade is not perfect of course but if the book goes in run-off mode as far as tranches are concerned, that is an interesting option. This money is obtained from a downgrade in the liquidity of the portfolio. Yet, it looks a much better option than collapsing or unwinding the trades with the street or any dealer or counterparty in block trades.

The trades could be booked on a standalone basis from one cash quote, so this would be easy to mark (with an increased issue here Lagree).

The liquidity injection we would operate might also be favorable for us to reduce some tranche lines, especially the 0-3 10yr in that regard.

As a summary:

Negatives

- added dependency on dealers quotes
- downgraded profile if the book remains a tail risk book in credit derivatives
- slight overload in operations due to the single name booking
- we may have to increase RWA in the process first hand

positives

- we lock a PNL in form of carry forward that offsets the current unrealized loss
- does not alter the tail profile in terms of defaults upside
- likely helps us reduce some remaining large positions once we have traded sizes on skew
- once booked, very simply to mark and maintain.
- allows us to pay the trading costs to set the book for run off mode

The real choice to make is whether the book should be on run-off mode, ie we lightly manage it with a long risk bias : we would allow for P&L swings and we would just prepare for default risk looking forward. To be sure, this is the case already but the book is not in run off mode. If the book steps in run-off, the skew trade would make sense because we would not plan to

unwind agressively as we did last year.

Let me know

Bruno

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From: Macris, Achilles O <achilles.o.macris@jpmorgan.com>

Sent: Fri, 23 Mar 2012 10:43:52 GMT To: Drew, Ina <Ina.Drew@jpmorgan.com>

Subject: This is not "normal"......

FYI --

It's really strange what is going on here......

Javier and learn here feel "surrounded" and blindsided in terms of methodology etc.

I think that we will need to intervene and somehow mediate this issue with the IB and insure the unblassed role of Ashley and Risk management.
Let's please decide and coordinate on our exact course of action, as this issue is really taking a wornsome direction that could be embarrassing to the firm.

Clearly, the IB knows our positions as well as the "checkmate" in terms of Capital freatment. They will certainly like to settle with CIO and close their short position in IC. The positive for CIO is that we are long IB when the market is moving lighter and tighter. We have the "right" position on this. Therefore, if we could afford the RWA, time and gravity will be working in our favour. The negative for CIO remains the capital utilization and the unpredictability of the capital utilization.

The problem with "settling" with the IB and help closing their shorts, is that CIO will be substantially short the market, post settlement. This is not where we I would like us to be in the middle of this strong market.

More in our meeting on this.

Best, Achilles

From: Iksil, Bruno M Sent: 23 March 2012 09:37 To: Mertin-Artajo, Javier X Subject: Ade will try to contact you on your mobile

He has been approached by IB guys who wanted to know in the detail , our position on IG9, they were very specific. He will call you to give more colour.

From: Drew, Ina <Ina.Drew@ipmorgan.com> Sent: Thu, 05 Apr 2012 22:08:57 GMT

To: Dimon, Jamie <jamie.dimon@jpmchase.com>

Subject: Re: ClO

If you are referring to the wind down in the ib credit exotics book, it is separate. Achilles and I targeted the CIO tranche and derivative activity as a reduction item (I specified in last bus review) due to the high rwa it draws under baste III. We have also had issues with QR that have made the two outcome less predictable. However we are working with Ashley and Venkat to see IF both the ib and cio positions could be moved out into the winters fund.

I have been assessing the trade off between p l and rwa for the second quarter. I can go over all the technicals with you at any time. I wanted to this week but understood you were on vacation.

-- Original Message -----From: Dimon, Jamie Sent: Thursday, April 05, 2012 06:00 PM To: Drew, Ina Subject: Re: CIO

Ok. Send me same info. Also how does it relat or not to our wind down credit exotics book?

----- Original Message ----From: Drew, Ina
Sent: Thursday, April 05, 2012 05:58 PM
To: Dimon, Jamie; Zubrow, Barry L; Staley, Jes; Cutler, Stephen M; Maclin, Todd; Braunstein, Douglas; Erdoes, Mary E; Smith, Gordon; Petno, Douglas B.; Bisignano, Frank J; Hogan, John J.; Cavanagh, Mike
Subject: CIO

I want to update the operating committee on what is going on with the credit derivatives book in CIO especially given a wsj article which will come out tomorrow.

One of the activities in cio is a credit derivatives book which was built under Achilles in London at the time of the merger. The book has been extremely profitable for the company (circa 2.5 billion) over the last several years. Going into the crisis, we used the instrumentation to hedge mortgage risk and credit widening. Recently, in December, the book outperformed as it was positionned in for "jump" risk or default risk throughout the summer as a relatively inexpensive hedge for fallout from weak markets during the european crisis. The fourth quarter 400 million gain was the result of the unexpected american airlines default.

Post December as the macro scenario was upgraded and our investment activities turned pro risk, the book was moved into a long position. The specific derivative index that was utilized has not performed for a number of reasons. In addition the position was not sized or managed very well Hedge funds that have the other side are actively and aggressively bartling and are using the situation as a forum to attack us on the basis of violating the Volcker rule

Having said that, we made mistakes here which I am in the process of working through. The drawdown thus far has been 500 mil dollars but nets to 350 mil since there are other non derivative positions in the same credit book. The earnings of the company were not affected in the first quarter since we realized gains out of the 8.5 billion of value built up in the securities book.

John Hogan and his team have been very helpful, I wanted my partners to be aware of the situation and I will answer any specific questions at oc monday.

Have a good holiday.

From: Iksil, Bruno M <bruno.m.iksil@jpmchase.com>

Sent: Sat, 07 Apr 2012 15:42:11 GMT

Martin-Artajo, Javier X <javier.x.martin-artajo@jpmorgan.com> To:

Subject: Re: IMPORTANT

Totally agreed. Fundamentally they resist this because the whole business model in credit derivs becomes obsolete. Now you know that ipmorgan was the historical sponsor of this; self regulation, private markets, bilateral contract pure commercial rights. If they admit that the index is the reference, then it could and should be traded on an exchange, and the super-senior should trade like a bond. Then the banks lose 70pct of their pricing power through the whole credit world.

From: Martin-Artajo, Javier X Sent: Saturday, April 07, 2012 03:23 PM To: Iksil, Bruno M Subject: Re: IMPORTANT

This is really the problem that the hedgefunds have . They can not get out and they are blaming the indexes . I think that somebody needs to do some work on this in terms of liquidity because the volumes there as dismal and if it really gets out there that only the indexes trade then the whole idea of fair value uis gone. This will tie up with my complain to QR about a bottoms up model that is not tradable . Only the indexes \ldots

Fre

Leteme know if you agree ...

Test

From: Iksil, Bruno M Sent: Saturday, April 07, 2012 02:58 PM To: Martin-Artajo, Javier X Subject: Re: IMPORTANT

The skew has always remained elevated since 2008 on ig9 and s9. The on the run skew is generally biased but comes back to zero when the index gaps out. October and the crisis in europe has increased the counterparty risk and many european banks ike csfb, db, bnp, sg, barclays, ubs, rbs and smaller players like natixis or calyon exited the skew market.

From: Martin-Artajo, Javier X Sent: Saturday, April 07, 2012 02:36 PM To: Iksil, Bruno M

Subject: Re: IMPORTANT

Also , let's discuss about the single names . I think that this is all about these guys unable to get singkle names since October last year probably.

.....

From: Iksil, Bruno M Sent: Saturday, April 07, 2012 02:23 PM To: Martin-Artajo, Javier X Subject: Re: IMPORTANT

Yes I was working on it this morning. I will send you a first batch. Of max downside cases. They all range from -350 to -750. 2 stress provide a large upside beyond 1 bin. Probability weighted that comes down to -100m. Yet some scenarios can likely make a loss of 300m. It is just that they are ulinlikely in my view.

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From: Martin-Artajo, Javier X Sent: Saturday, April 07, 2012 02:18 PM To: Iksil, Bruno M

Subject: IMPORTANT

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Bruno

Please confirm that you have seen this email . I will have a call with Ina and Achilles tomorrow Sunday to brief her on the downside risks for Q2.

I need you to work on the scenarios that we discussed and be available tomorrow morning to send them to me and discuss . I am available from 8am to 10 am or from 12 to 2 \mbox{PM} . All london time .

. Please send me the spreadsheet as soon as you have it either today or early tomorrow morning .

Best regards

Javier

From: Drew, Ina
Sent: Friday, April 06, 2012 09:22 PM
To: macris@
Cc: Martin-Artajo, Javier X

Subject: Re: Credit

Ok. Thanks. Maybe we should review what you have sunday. Let me know

From: macris@1 Sent: Friday, April 06, 2012 04:04 PM To: Drew, Ina C: Martin-Artajo, Javier X Subject: Re: Credit

Hi Ina.

We spoke with Javier at length following our conversation. We will be prepared for the call on Monday..

Javier is convinced that our overall economic risk is limited. There is no default event to amplify our losses as the same critical names are part of our short in HY and our long in IG.

Any further draw-down, will be the result of further distortions and marks between the series where we are holding

large exposures. This clearly needs to be estimated with much more precision.

I also have no doubt that both time and events are healing our position. I am however unsure on the potential magnitude of an "one touch" draw-down for Q2 which is highly dependant on marks.

Both Javier and Bruno continue to be extremely concerned about the confidentiality around our specific large exposures. The press seems to be referring to CIO position size which is different to the overall JPM size on the same instruments. Additionally, there were some specific HF's calling our team and trying to get information from both

front-office and infrastructure personnel (!).
As you know, I am not regularly giving much credence to such rhetoric. I have nevertheless asked for a summary of the specifics for your information.

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Best, Achilles

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From: "Drew, Ina" <Ina.Drew@jpmorgan.com>
To: "Macris, Achilles O" <achilles.o.macris@jpmorgan.com>; "macris@
Sent: Friday, 6 April 2012, 17:13
Subject: Credit

Jamie and Doug want a full diagnostic monday. I will need it sunday night. More focused on p l than rwa at moment as I indicated. I'm not comfortable with the level of analysis so far. I tried to reach you by phone and text. This email is confidential and subject to important disclaimers and conditions including on offers for the purchase or sale of securities, accuracy and completeness of information, viruses, confidentiality, legal privilege, and legal entity disclaimers, applied by the http://www.imporgan.com/pages/disclosures/gmail available at http://www.jpmorgan.com/pages/disclosures/email.

From: Braunstein, Douglas < Douglas Braunstein@jpmorgan.com>

Sent: Mon, 09 Apr 2012 20:54:51 GMT

Dimon, Jamie Sjamie.dimon@jpmchase.com>

Subject: Follow up

- Have clear statement for Joe
 Have asked Ina and Wilmot for clear analysis of the positions—maturities, balances, spreads (current) and normalized
 Joe is providing feedback to WSJ and Bloomberg
 Had follow up call with Keith Horowitz at Clt; Ben Hesse. Sarah will have some specific questions we should ultimately address on the call
 Think we are nk for now but will let you know if we need you to follow up with anyone

Douglas L. Braunstein | Chief Financial Officer | JPMorgan Chase & Co. 270 Park Avenue | New York, NY 10017 | Yel. 212-622-1020 | Jefax: 917-464-7578 e-mail: douglas.braunstein@ipmorgan.com

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From: Wilmot, John < JOHN.WILMOT@jpmorgan.com>

Sent: Mon, 09 Apr 2012 21:52:47 GMT

Braunstein, Douglas <Douglas.Braunstein@jpmorgan.com>; Dimon, Jamie To:

| Subject: FW: Series 9 tranche liquidity reserves

Below is detail relative to the liquidity reserve taken on the Series 9 credit tranche positions. I will forward the related notional exposures tomorrow moming as they are not included below and London is closed. John

John C, Wilmot | Chief Investment Office | 🖾 john, wilmot@jpmorgan.com | 🕿 Work: (212) 834-5452 | 🕿 Cell:

6 CREDIT TRANCHE POSITIONS IMPACTED
3 Maturities of TRAXX Series 9 (5yr, 7yr, 10yr Maturity)
3 Maturities of CDX Investment Grade (5yr, 7yr, 10yr Maturity)

CREDIT TRANCHES LIQUIDITY RESERVE DETAILS Total Increase of approximately +\$155Million

RATIONALE FOR ADDITIONAL TRANCHE LIQUIDITY RESERVES

As part of CIO's recurring liquidity review, Gredit <u>Index</u> markets (post Series 8) are deemed liquid and are excluded from CIO's Liquidity Reserve computation. Liquidity reserves are taken for the Series 6, 7, and 8 Credit <u>Index and Tranches</u>.

Credit Tranche markets have always been considered less liquid (compared to Index markets) and Liquidity reserves are therefore computed and taken. However, in the past, the Liquidity Reserve associated with these 6 Series-9 Tranche positions was not taken because their markets were deemed sufficiently liquid. The additional +315SMillion Liquidity Reserve was taken due to the inclusion of these 6 <u>Series-9 tranche</u> positions; this reflects the market's reduced liquidity.

CALCULATON METHODOLOGY (DEFINED BELOW)
Liquidity Reserve = [CSO1] X Square Root [Holding Period] X [Spread Volatility]

[A] CSO1 (Credit Spread sensitivity to a 1bps change in market spreads relative to Position Size)
[B] Holding Period (JPM IB suggested maximum 120days used by CIO)
[C] Spread Volatility (provided by JPM IB VCG; varies by position in capital structure; highest volatility for Equity tranches; lowest volatility for Super Senior tranches)

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From: Hogan, John J. < John J. Hogan@jpmorgan.com>

Sent: Tue, 10 Apr 2012 18:59:03 GMT

Neilmot, John JOHN.WILMOT@jpmorgan.com>, Dimon, Jamie <jamie.dimon@jpmchase.com>; Braunstein, Douglas

Drouglas

Sprunstein, Douglas
 To:

CC:

Subject: RE: Materials for FED/OCC Questions

For tomorrow's call, we should have a discussion of what we believe the correlation is between the net \$101 bio (and \$55 bio in tranches) in long positions vs what we are hedging. Also would like to see a maturity waterfall of the longs and shorts. Thanks, John

From: Wilmot, John Sent: Tuesday, April 10, 2012 1:40 PM To: Dimon, Jamie; Braunstein, Douglas; Hogan, John J.; Drew, Ina

Cc: Goldman, Irvin J Subject: FW: Materials for FED/OCC Questions

Attached below is the data I sent to Joe Sabatini for delivery to the Fed and OCC to answer their two requests from

- Notional long and short risk positions across the credit derivatives book
 How does this activity relate to the broader CIO activity

John C. Wilmot | Chief Investment Office | 🖾 john wilmot@jemorgan.com | 🕿 Work: (212) 834-5452 | 🖼 Cell:

From: Wiknot, John Sent: Tuesday, April 10, 2012 1:36 PM To: Sabatini, Joseph

Cc: Goldman, Irvin J
Subject: Materials for FED/OCC Questions

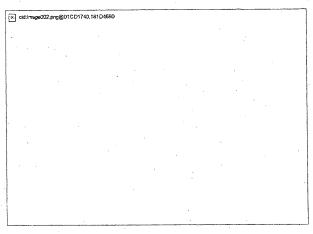
Joe -- here is the information for the Fed and OCC from our call yesterday afternoon. Let me know if there are any further questions. Thanks, John

The table below shows major (and total) long and short risk positions in indices - and totals for long and short risk in tranches.

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The note below describes this credit derivatives activity relative to the overall CIO activity.

The Chief Investment Office has utilized the "synthetic credit portfolio," which is a portfolio of credit derivatives, to construct a hedge against other risks on JPMC's balance sheet. This activity has been part of the CIO portfolio construction and risk management since 2007. The related credit derivative instruments offer an efficient means to establish protection against adverse credit scenarios and "stress events".

This activity is among the key tools utilized by CIO to manage and hedge stress loss risks. The synthetic credit portfolio has benefited the Firm, especially in times of credit market dislocation, sudden spread widening and in the occurrence of defaults, which is typically a catalyst for credit spread widening scenarios.

In Q3 and Q4'11, CIO began to reduce the net stress loss risk profile of the hedges, as more positive macroeconomic data in the US and an improving situation in Europe post LTRO merited a reduction to the stress loss protection of the "synthetic credit portfolio." The book, as a dedicated hedge, continues to be short HY and to provide default protection.

John C. Wilmot | Chief Investment Office | @ john.wilmot@jemorgan.com | # Work: (212) 834-5452 | @ Cell:

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JPM-CIO-PSI 0001023

Surrrary of Po	oitions		LONG	SHORT	Grand Total
Major Indica					
Positions	CDX HY 509 05Y	external	7,853,202,000	-1,382,900,000	6,490,302,00
		internal	120,050,772,331	411,111,450,331	8,939,322,00
	CDX HY S06 05Y Total		127,903,974,331	-112,474,350,331	15,429,624,00
	CDX 10 S09 05Y	external	16,862,584,439	40,911,107,639	-22,048,523,20
		internal	1,378,820,642,166	-1,388,447,498,968	-9,626,856,80
	CDXIG S09 05YTotal	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,397,683,226,604	.1 423 358 606 604	-31.675.380.00
	CDX1G S09 07Y	external	34,937,540,005	-3,669,096,000	31,068,444,00
		internal	1,159,939,174,565	-1,158,008,466,565	1,929,708,00
	CDX IG S09 07Y Total	THE WAY THE STREET	1,194,876,714,570	-1,161,878,562,563	32,998,152,0
	CDX 1G S09 10Y	external	78,381,380,000	-3,421,154,000	74,960,226,00
		lintemel	1,578,072,188,019	-1,574,704,274,019	3,367,914,0
	CDX IG S08 10Y Total	ACT AND THE PROPERTY OF THE PARTY OF THE PAR	1,656,453,568,019	-1,578,125,428,019	76,328,140,0
	TRAXX MN S09 05Y	external	39,630,987,500	-24,870,850,000	14,760,037,5
		internal	1,850,432,937,345	-1,642,698,537,345	7,738,300,0
	TRAXX MN S09 05Y Tot	al al	1,690,063,924,845	-1,667,567,567,345	22,496,337,5
	ITRAXX MN S08 10Y	external	28,612,411,848	40,796,368,848	17,816,045,0
		internal	832,410,632,093	-833,151,047,093	-740,415,0
	TRAXX MN SOS 10Y Tot	Mark Mark Control of the 	851,023,043,941	-843,947,413,941	17,075,630,0
	ITRAXX MN S16 05Y	external .	28,093,325,000	-8,267,625,000	21,825,700,00
		internal	315,479,043,750	-310,937,893,750	-3,458,660,0
	TRAXX MN S16 05Y Tol		343,572,368,750	-325,205,316,750	18,367,050,0
Subtotal of Major Index Positions			7.271 576 821 060	741055736758	153,019,853,5
011 other Index P			3,220,110,559,079	-3,271,686,087,67	-51,577,448,5
Total of Index Positions Total of Tranche Positions			10.491.687.380.138	40,390,245,275,232	101,442,104,9
			361,938,489,148	-306,133,417,000	55,865,072,0

1569

From: Youngwood, Sarah M <sarah.m.youngwood@jpmorgan.com>

Sent: Tue, 10 Apr 2012 19:10:13 GMT

To:

Dimon, Jamie samie, dimon@jomchase.com>; Braunstein, Douglas

Douglas Braunstein@jomorgan.com>; Staley, Jes sjes.staley@jomorgan.com>; Drew, Ina

Landrew@jomorgan.com>; Braunstein@jomchase.com>
Miller, Judib B. Studith B. Miller@jomorgan.com>; Investor Relations

Livestor_Relations@restricted.chase.com>

Subject: CIO articles - Calls (7)

4 more conversations on CIO articles – Betsy Graseck (MS – sellside), Kevin Mixon (junior of Glenn Schorr, Nomura – sellside), Steve Chubak (junior of Guy Moszkowski, BoA – sellside) and Anu Venkatararnan AB (buyside). All of them understand our CIO activities. Joe's statements very helpful to the conversations. I will send a full update later.

Sarah Youngwood | Managing Director | Head of Investor Relations | 3PMorgan Chase Co. { 270 Park Avenue, New York, NY 10017 | 7: 212 622 6153 | F: 212 270 1648|

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JPM-CIO 0001053

Confidential Treatment Requested by J.P. Morgan & Co.

From: Evangelisti, Joseph <joseph.evangelisti@jpmchase.com>

Tue, 10 Apr 2012 22:22:17 GMT Sent:

Operating Committee < Operating Committee@jpmchase.com> To:

CC:

Voungwood, Sarah M y Horan, Anthony ANTHONY.HORAN@chase.com, Miller, Judith B. Suller, Judith B. <a href="mailto:sarah.gov"

Subject: WSJ tomorrow

The Wall Street Journal is running a follow-up story tomorrow related to our CIO hedging activities. Their lead is going to be along the lines of "The London Whale, who made waves in January and February, has dived beneath the surface and has now gone silent (stopped trading)." They'll also say that hedge funds are in a complex chess match with our firm and waiting for our next move. The story does not seem focused on regulatory issues.

We provided additional background and on-the-record statements today explaining the hedging activities of our CIO and putting these activities in the context of our overall asset and liability management. We also said that we now feel that our risks are effectively balanced. Joe

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Confidential Treatment Requested by J.P. Morgan & Co.

From: Youngwood, Sarah M <sarah.m.youngwood@jpmorgan.com>

Wed, 11 Apr 2012 18:56:20 GMT

CC:

Subject: CIO articles - Calls (9)

Two calls today.

To:

Kush Goel – Neuberger (Buyside)

- I've see the articles about CIO. Are you commenting?

 O We have some public statements in the press. We can also point you to our public disclosure in the 10K as well (Note 12)
- What is CIO? Is it really 400 people? Are they based in London?

 - We don't disclose CIO separately
 CIO is an appropriate size to hedge our structural risk and manage excess liquidity investments o London and New York
- · Who runs CIO Who do they report to?
 - o ina Drew; reports to JD
- I've heard they have hired prop traders? Why?

 o We can't comment on specific people. We try to hire the best people to run this very important function. 2.3T balance sheet
- Does this run afoul of Volcker?
 - o CIO hedges the structural risk of the firm and prudently invests the Firm's excess liquidity we don't believe Volcker is intended to limit these activities.
 - What was the specific credit position discussed in the article; where are these derivatives disclosed?

 - All our trading assets are disclosed in the financial statements IB and CIO combined
 CIO VaR is disclosed in the Market Risk section of the 10K with a brief description of the activities
 - o Referred to Joe's quotes

 - "Trades are part of the firm's hedging strategy"

 JPMorgan holds a portfolio of IG debt and uses "credit-related instruments" such as derivatives to protect against a decline in the value of the holdings
- ""We are balanced"
 Will Doug and Jamie address this on the call?
 - o Don't know. This is a core function of the bank. I am sure they will address in Q&A if asked.

Peter Handy - Sanford Bernstein (Sellside; works with John McDonald)

- I am trying to add granularity to my modeling of Principal Transactions. Can you help me understand your
 - Helped him understand line items (generically; no discussion of performance)
 - o Peter was double counting IB principal transactions and offsetting with losses in Corporate as he hadn't understood our disclosure in Corporate/PE
 - o He now understands our disclosure

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JPM-CIO 0001150

Confidential Treatment Requested by J.P. Morgan & Co.

From: Youngwood, Sarah M <sarah.m.youngwood@jpmorgan.com>

Fri, 13 Apr 2012 17:22:08 GMT Sent:

Dimon, Jamie <jamie.dimon@jpmchase.com>; Braunstein, Douglas <Douglas.Braunstein@jpmorgan.com> To:

Miller, Judith B. <Judith B. Miller@jpmorgan.com>; Investor Relations <Investor Relations@restricted.chase.com>

Subject: 1Q12 calls - Buyside and Sellside comments (3)

We are now getting calls. Tone positive. No questions on CIO. A lot of detailed questions. Continuing to return calls and

Glenn Schorr (Nomura - Sellside)

- General comments/feedback
- Stock beaten up because of Europe news over the last few days; creates a new overhang

 - No one has a real problem with your earnings
 Heard you on growth, expense control, increase in reserve interpreted as conservative

 - No big changes
 Drop of incremental good feeling from the results as the street expected that performance
- o Quarter was fine
- Are you saying anything different related to capital requirements and share repurchase?
 - Glenn himself was very clear on Jamie's message and very comfortable with the answers however he
 had heard the question from investors and wanted to clarify
- When will the high gain on sale normalize? On the call, the language was "gain on sale normalizing on a go-
 - We noted that on the call, we recognized it's outsized this quarter; referred to investor Day guidance; didn't provide specific timing Cost of fund increase
- Is there any threshold for when/how you report high-yield seconds?

 o Clarified

- We've seen a big rise in trade finance loans. Usually I think of this as more safe and relationship-based. Any reason to be concerned with this much growth?

 O Growth is YoY; QoQ slow down; referred to Doug's comments; our growth very focused on quality
- The largest firms were supposed to have living will to July. Does that timeline still hold?

 O We're working on it; we haven't said anything on it

Andrew Marquardt (Evercore - Selfside)

- Feedback on results
 - o Better than expected results; show of strength; taking share and well positioned; results make me feel better in an uncertain environment
 - Investors wondering whether stock has legs above \$45 price
 Referred to Jamie's comments on the call, which were differentiated between stock price from the
 - perspective of intrinsic valuation/investment vs. in the context of other capital deployment opportunities
- o Thought CIO comments were very helpful; no questions on the topic
- Had asked at Investor day for additional disclosure on NIM (loan details; BoA provides); reiterated ask
- I was surprised by the focus on capital and the special dividend? o Reiterated Jamie's response
- What has changed in your forward-looking guidance?
 - Went through the comparison of wording vs. last quarter; didn't offer color beyond
 Referred to comments on the call on \$49B and Nil

- Revenues on fees Anything still left on the WaMu settlement?
 - o We noted we have not said, and reminded him this has nothing to do with private label; it relates to the actual bankruptcy of the entity
- Any additional color on the strength in FICC? Is there any guidance?
 - o Referenced Doug's commentary on the call
- Why not bring down your reserves in repurchases?

 o Timing; not a trend
- Paçe of reserve release? o Referenced Jamie's comments on the call
- Capital Any reason to think there is any change in what you've said before (i.e. that you would get to 9.5% by 2013)?
- o We didn't specify on the call
- Can you provide more color on investment opportunities?
- Have you received many questions regarding CIO?
- Did you update the flight to quality deposits number of ~\$75B you disclosed at Investor Day?
 - o No update provided

Gerard Cassidy (RBC Capital - Sellside; will be on CNBC this afternoon)

- NIM Are we to expect the current cost of the long-term debt to stay in the 2.7% range? Is the 2.7% the new normal?
 - One time gain in 4Q; recommended he look at our spreads and maturities, which we've disclosed in our 1D-K; referred to TruPS as potential impact (no amount or timing specified; just referred to Doug's
- Timing regarding TruPS redemption
 Asked for clarification on NPLs
- What is driving the fantastic loan growth in AM?
- Why did you increase allocated capital in CB?
- What did Doug Braunstein say on CNBC related to non-core EOP loans?

 O We pointed him to Investor Day non-core loan growth and run-off analysis
- Have you provided guidance as to where foreclosure-related expense could be this year?
 - o Referenced Investor Day Servicing expense walk
 - o \$300-350mm Doug mentioned today was in line with Investor Day
- Is the credit card portfolio sequential decline seasonal? Seems like a lower seasonal impact than a year ago o We confirmed seasonality, added that sales volumes are up
- Within Corp./PE, NII seemed to drop significantly; can you give some color on the swing? o Gave theoretical feedback on drivers of different lines in Corp/PE
- Did you see any change in repurchase demands that give you encouragement that we have reached a peak in terms of reserve release?
 - o Timing; not a trend

Sarah Youngwood | Managing Director | Head of Investor Relations | JPMorgan Chase Co. | 270 Park Avenue, New York, NY 10017 | T: 212 522 5153 | F: 212 270 1648|

From: Youngwood, Sarah M Sent: Friday, April 13, 2012 11:01 AM To: Dimon, Jamie; Braunstein, Douglas Cc: Miller, Judith B.; Threstor Relations Subject: 1Q12 calls - Buyside and Selside comments (2)

Only one call since we finished earnings call.

John Balkind (Sandler O'Neill Asset Management – Buyside)

• Wanted clarification on NPL reporting change

• We went through it – He understands

Glenn Schorr and Betsy Graseck have also e-mailed that they will want to talk but have asked to discuss after Wells call.

Sarah Youngwood | Menaging Director | Heed of Investor Relations | JPMorgan Chase Co. | 270 Park Avenue, New York, NY 10017 | T: 212 622 5153 | F: 212 270 1648|

 $\textbf{From:} \quad Youngwood, Sarah \, M \leq sarah.m.youngwood@jpmorgan.com \geq$

Sat, 14 Apr 2012 16:00:05 GMT Sent:

Dimon, Jamie <jamie.dimon@jpmchase.com> To:

Braunstein, Douglas < Douglas Braunstein@jpmorgan.com>, Warren, Shannon S < warren_shannon@jpmorgan.com>, Levy, Douglas S < douglas.s.levy@chase.com> CC:

Subject: Re: 1Q12 calls - Buyside and Sellside comments (6)

Jamie,

P6 of supplement, we broke out long-term debt cost by quarter (showing rate going from 2.10% in 3Q11 to 2.15% in 4Q11 and 2.71% in 1Q12). We didn't have a specific break out or footnote re debt gain in 4Q11. I don't believe we mentioned the gain in press release, presentation or script.

In 1Q12, we disclosed page 18 of pres: "Debt-related gain in 4Q11" (as driver of change in NIM on core NIM page).

Sarah

Sarah Youngwood | Head of Investor Relations | JPMorgan Chase & Co. | T: 212 622 6153 | F: 212 270 1648 |

From: Dimon, Jamie Sent: Saturday, April 14, 2012 11:04 AM To: Youngwood, Sarah M Subject: Re: 1012 calls - Buyside and Sellside comments (6)

Did we disclose the fourth qtr hedging benefit in the fourth qtr. Plus. Was it broken out on the nim page

From: Youngwood, Sarah M Sent: Friday, April 13, 2012 07:20 PM To: Dimon, Jamle; Braunstein, Douglas Ce: Miller, Judith B.; Investor Relations Subject: 1Q12 calls - Buyside and Sellside comments (6)

Doug and Jamle,

Last batch of calls. Overall, themes have remained consistent. Buyside and Sellside positive on the underlying performance. Some questioning regarding sustainability. No concerns re high risk seconds, but a topic of conversation.

Debt gain in Q4, capital deployment, TruPS and mortgage costs also key themes. Very few questions on ClO (2 came late in the day - see below). Only one estimate change so far (Guy Moszkowski - BoA); expect most people to work on their models over next few days. Research generally positive.

Dick Bove (Rochdale Securities - Sellside)

- Stock didn't pick up despite good earnings, Issue might be sustainability
 - o FI strength in the IB might be viewed as seasonal
- o Strong Mortgage income might be buoyed by HARP program
- What are some of the issues you're hearing China, Spain what is the overhang as you are seeing? Increase in cost of debt? Explained that there was a 4Q hedging benefit which was not repeated in 1Q $^{\circ}$
- CIO question. Company is attempting to 'make money' from their hedging portfolio?

 o CIO office manages structural risks (FX, Rates, Basis, Credit, etc...) and looks to invest excess liquidity, as described by Doug. All consistent with our interpretation of Volcker
- Dick has been in discussions with Bloomberg to let them know that he believes that they are inaccurately

portraying JPM's CIO activities and supporting a group of former employees without trying to take a balanced perspective. Dick already wrote a note and is considering writing a follow-up o Ididn't comment

David Hendler - CreditSights, fixed income-focused

- Nice results for the quarter
- Securities gains, is that where the trading would be for CIO? If looking at BS, where does CIO activity reside? Is CIO activity actively managed?
- Your CDS seem to indicate that the Street is comfortable with CiO story
- Derivative receivables; can you differentiate what is IB and what is ${\tt CIO/Treasury?}$
 - o No, you cannot
 - o The \$370B number is the securities portfolio related to CIO
- Are you too big in certain parts of CDS and that is a risk market we need to consider. You may have an issue in terms of getting out of your position and it may be your positions are too big

 o We have been operating effectively with this type of size for a while; no specific change; there are a
- variety of markets/strategies we can utilize

 You guys do the best job with disclosure; currently, the problem is that your CIO activities are not all that
- Doug was very transparent today regarding the general strategy in CIO, but his explanations only came after the news articles
- I would love to meet with ina to talk about this
- I wrote a note that was balanced and Bloomberg took it apart and quoted me; I don't want you to get the wrong impression; my words were taken out of context

Jeff Harte and Ted Holtzman (Sandler O'Neill) - Sellside

- Feedback/general comments
 - o I think your numbers are better than the markets think. I'm not sure what the market is doing.
 - o. There were a lot of questions about home equity and IB revenue absent DVA/CVA
 - o A lot of competitors are talking about gaining market share in Europe. Jamie has said he isn't seeing this
 - o Clients are asking why JPM stock is not up
- investment Bank
 - o Wanted to clarify guidance on comp/revenue
 - Maintain full year guidance: 35-40%
 - o CPG Do we know the dollar amount of CVA on the revenue line?
 - * Yes, a gain of \$175mm
- Mortgage Banking
 - o \$200mm servicing cost associated with the settlement is this a one-time hit?
 - Yes, if you pull this out, it would be relatively flat QoQ
 Mortgage origination margins spiked this quarter. The increase was a variety of mix-related things; what would you highlight?
 - Volumes are strong; we've strategically moved to a mix that favors retail branches
 Pointed him to Investor Day slides for a normalized MB P&L
 - o HARP -- Does it help volumes?
 - o The rep and warranty reserve there is a number within the RFS segment and then for the total firm, but they're not the same. Where else would this be found?

 • Amounts related to Bear/EMC

 - The repurchase reserve relates primarily to the agencies; we've maintained our guidance for losses at \$350mm +/-
- Card Services & Auto

- o Revenue yield in credit card dropped; due to seasonally that is not unusual; how much of this is due to the current spread environment versus seasonality?
- Corporate/PE
 - o Revenue If I take out PE and the WaMu settlement, how should I think about non-PE results • \$200mm +/- quarterly net income guidance
- Buyback
 - What I see in the supplement doesn't match what Doug mentioned

 - What you see is the total repurchases on a settlement date basis for the quarter
 We settled some trades that were done last year in the quarter; Doug talking about total buybacks under the new authorization
 - o Are you limited when you can engage in a buyback?

Tom Alonso (Macquarie – Sellside)

- · General comments/feedback
 - o Stock has had good run to date; expected pullback
 - o Tone of the call was slightly more cautious than expected given earnings performance
 - Surprised by the magnitude of reserve release for RFS this quarter
 Surprised by the question raised on special dividends

 - * Reiterated Jamie's response
 - o Concerned about loan growth overall
 - * Discussed trends in CB and highlighted our higher capital allocation in January
- Additional color on FICC? Is trend sustainable?
 - o Referenced Doug's commentary
- Clarified the approximately \$450mm shares bought back was YTD and not incremental to disclosure in supplement

Vivek Juneja (JPMorgan - Sellside)

- Issued a report on home equity risks yesterday
- Regarding disclosure, what's different about the Junior liens that were not moved?
 - o Those that moved to NPL bucket are behind seriously delinquent (nonperforming) firsts
 - Regulators required this move in the disclosure
 Mentioned that WFC reclassified all HE that was behind a delinquent first
- WFC call Someone mentioned JPM expected 55% loss on these. Is this true?
 - $\circ\,$ Pointed him to the Investor Day slide re high-risk seconds

Jim Mitchell (Buckingham Research - Sellside)

- The upside in trading was good
- Good earnings, doesn't seem like people were listening Europe concerns seem to have brought the market
- Given the noise in the debt yield this quarter, how should I think about a normal debt yield?
 o 4Q11 was lower because of the debt item that was mentioned on the call
- Why is your mortgage compensation ratio higher?
 - o Mix change toward retail originations which have higher costs, but also higher margins
- What is the Mortgage default cost run rate?
 We had \$200mm of incremental servicing costs associated with the settlement and other matters

Matt Burnell - Wells Fargo - Sellside (email)

 Requested public information that the regulators issued on the home equity NPL accounting treatment Referred to OCC document http://www.occ.gov/news-issuances/news-releases/2012/nr-la-2012-15a.pdf

Anu Venkataraman (Alliance Bernstein - Buyside)

- Special dividend clarification is Jamie against a special dividend?
 - o We are not starved for opportunities to use our excess capital. We have a number of options and do not believe a special dividend is an attractive option relative to other more accretive uses of capital
- Litigation reserves what is the contingency that would require such a high level of provisions of the contingency of the would require such a high level of provisions of the contingency of the continue of the con conservative and feel comfortable with how well reserved we are being.

Dan Bitar (MSD Capital - Buyside)

- What are your thoughts around full-year comp for the IB?
- Expect comp to be in the range of 35%-40%
 Your mortgage revenue spreads seem to above normal. What is the normal rate?
 - o Referred to Investor Day
- - o Capital decisions are based on longer-term needs of the business
- High -risk seconds change in methodology. Can you explain?
 Why were credit card expenses up YoY?
- As we noted, this was related to an expense related to a noncore product we are exiting.
- Why did loan growth increase in AM?
 Why is compensation up in Corporate?
 - o Normal first quarter accrual for FICA
 - o Increased headcount
- Are you done with your litigation? Seemed that way when Doug was speaking on the call
 - o Referred to Doug's comments
- . What caused the increase in LTD yield?
 - We had a debt-related benefit in the fourth quarter

Rob Hertz (Oppenheimer – Buyside)

- Can't believe how people are reacting to home equity (HE)
- Also believe Europe is ruling the day; don't know how Spanish banks plan to recapitalize o I suspect people are aware of the next steps in Spain and how dire their real estate situation is. I don't
 - know where this money is going to come from. Spain might become another Ireland
 - o Thought Jamie's analogy to an accordion was appropriate
- Can you review the HE information with me?

Pri DaSilva – Credit Suisse

- Trying to understand our litigation reserves
 - o We only disclose the expense; not the reserves

Calls pending

- Voicemail into KBW (David Konrad). David highlights "change in regulatory guidance and increase in NPLs" in
 one of his report without a clear explanation. He didn't call us but I reached out to offer an explanation of the
 reporting change and point out our disclosure.
 Marty Mosby Returned call; no voicemail

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From: | Iksil, Bruno M
| Sent: | Mon, 30 Jan 2012 21:12:38 GMT
| To: | Martin-Artajo, Javier X <javier.x.martin-artajo@jpmorgan.com>

Subject: core credit

ok they really push against our positions here everywhere, there is more pain to come in HY too: a lot of capital comes back into basis and skew trades. I can see a bad scenario here where spreads widen and guys do not go long risk but make basis arbs with a bearish view on weak names. Here we should stop adding and take full pain: I see 50m coming in IG9 as I mentionned and another 50m in HY. this is really the street moving pieces but there is not position in the book that stands out as it is balanced. So that requires a lot of trades and I think we would just add to the pain here.

From: Martin-Artajo, Javier X < javier x martin-artajo@jpmorgan.com>

Thu, 22 Dec 2011 11:16:11 GMT Sent:

Iksil, Bruno M <bruno.m.iksil@jpmchase.com>; Hagan, Patrick S To:

<patrick.s.hagan@jpmorgan.com>

Grout, Julien G <julien.g.grout@jpmchase.com>; Patel, Samir R CC:

<samir.r.patel@jpmorgan.com>

Subject: RE: urgent ----: Rwa

What kind of numbers can we reduce . What is posible to reduce ?

We need a number around 13 Bin since we can reduce 2 Bin in CLO's and Bank names

I have just put a list of posible reductions . Can we be more specific and write your own estimates for End of Q1 2012?

Model reduction QR CRM (15% acknoledged already)

Model reduction QR VAR Model Reduction OR Stress Reduction for duration shortening

Book Optimization

regards

Reducted by the Permanent Subcommittee on Investigation

From: Iksil, Bruno M

Sent: 22 December 2011 06:46

Martin-Artajo, Javier X

Subject: Re: urgent -- : Rwa

I received it. For what I need to provide a clue: I would need julien to be in the loop and, (most of all) what kind of rwa measure we refer to and possibly data out of it. We can reduce it by simply selling protection but then the pnl volatility will increase potentially and the group diversification will be reduced.

Now what we are doing today is :

1-flattening the profile on the medium sized default scenarios, say if we have 5-10 defaults, because here we have some leverage in the capital structure that creates great gains (as you saw) on surprise defaults but generate theoretical drawdowns (typical f9 model flaw) accretive to rwa.

2- reducing some of the main carry and convexity generators (namely long term equity tranches where we are long risk). This mitigates a bit the point 1- with regards to the upside on the first default of "AMR" type 3- we are reducing the largest index notionals in investment grade indices and the net long risk in cdx hy9 hy10 $\,$ series that went to balance the short risk we had on hy11 3yr that expired in december.

All this should reduce any kind of rwa, be it QR or our own measure. Yet I have to say I work in the blind for QR measure

We will keep doing that in Q1 and it should provide good results although I receive no update, so (again) it is

difficult to project much. I target the reduction of the largest notionals and the largest leverage through the monitor I showed in one Tuesday meeting so that I am almost sure the reduction in rwa appears no matter which model people want to use. Now, with no data and no update, I cannot predict the moment when the reduction will show. So far, I pay the bid-ask in the market (estimated cost likely to have been 150-250m this year) but I try to avoid bad trades in RV terms. Volatility this year provided good opportunities to get interesting ry trades that partly balanced the execution cost.

The next stage I think is that next year some very large exposures will naturally expire and same for 2013. I understand that we look for a steep reduction end q1 next year : this may be do-able if for example we have a default in investment grade. Now, if that happens I will simply sacrifice the gain to exit the positions accordingly. By "sacrifice" I mean that I will lock at best 50pct of the potential and not re-build it. That can provide a very effcicient way to reduce rwa. Otherwise, we can hope for low volatility and the we will shrink as we did this year but the problems of timing and data and model will remain.

Best regards

Bruno

From: macris@btinternet.com

Sent: Thursday, December 22, 2011 05:39 AM To: Martin-Artajo, Javier X; Giovannetti, Alison C Cc: Iksil, Bruno M

Subject: urgent ----: Rwa

FYI - please confirm this is received and that we can coordinate a response this morning. - thanks

--- Forwarded Message --

From: "Drew, Ina" < Ina.Drew@jpmorgan.com>
To: "Martin-Artajo, Javier X" < javier.x.martin-artajo@jpmorgan.com>; "macris@]

<macris@
cc: "Wilmot, John" <JOHN.WILMOT@jpmorgan.com>
Sent: Thursday, 22 December 2011, 2:55

Subject: Rwa

We are running an additional rwa reduction scenario. Can u send John and I a scenario whereby the tranche book and other trading assets are reduced by an incremental 15 bil in the first quarter? Not a stress scenario, so assuming normal (whatever that is now - not year end) liquidity. Pls list by trading strategy, ie: credit tranche, other trading positions, with cost estimate - (background: trying to work with coar submission for firm that is acceptable for an increased buyback plan). Need in early ny morning -

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subcommittee on Investigation

From: Iksil, Bruno M <bruno.m.iksil@jpmchase.com>

Sent: Mon, 19 Mar 2012 11:44:53 GMT

To: Martin-Artajo, Javier X <javier.x.martin-artajo@jpmorgan.com>

CC: Grout, Julien G <julien.g.grout@jpmchase.com> **Subject:** Core Book analysis and proposed strategy

Book position

- The book has positive carry, P&L upside on defaults and positive convexity if spreads gap wider. It is relatively neutral directionally overall at current market spread levels>

- To obtain this profile, the book receives the forward credit spreads. When markets are caught in squeeze like this one, the P&L volatility can become very large: this is what is happening since the beginning of this year in CDX IG9 and Main ITRAXX S9 series. The hit amounts to 5-10 Bps lag in those forwards versus the 50-60Bps rally.
- The book incurred a loss of 100m usd IN us hy from KODAK default and RESCAP almost certain default: this weakness have been corrected now and offers decent upside in any new default in HY indices

Market behaviour

- The CDX IG9 and ITRAXX Main S9 are the series where index tranches still trade. This is where the street owns some protection especially in the longer tenors for capital relief reason and uncertainty about the timing of defaults.
- some large Hedge funds have some "skew trades" where they buy protection on the series 9 10yr indices versus the single names
- -in the rally, those series (where the book is long risk and the street is short risk) have lagged consistently: by trading and trying to correct the lag, we could retrieve 1-2bps—but then we met strong resistance either with size or bid-ask widening.
- this year the tranche market depth has vanished: we can trade but small size each time with an appetite from dealers to load protection on the longest tenors.
- -in US HY, in addition to the 2 defaults, we face a flattening trend advertized by dealers saying that either we have defaults or we rally: either ways, the curve flattens and we have a steepener on.
- as a summary, the book is a very visible player and holds a trade that the street wants to have now: ie a protection against unpredictable defaults. At the same time, they still own their "no default" trades from last year. So the street systematically steepens the series 9 curves and maintain the longest tenors wider than anything else.

Proposed strategy: let the P&L fluctuate while not defending, just maintaining the upside on defaults over time

-CDX IG and iTRAXX MAIN: over the next 18 months

- buy back the protection in 0-3 10yr to reverse the profile (3Bln in main, 6bln in IG)
- buy some 0-3 in 7yr tenors (1bln main-2 bln in IG)
- sell protection over time on widenings to maintain the carry (5-10 Bin Main and IG)
- CDX US HY : over the next 18 months
 - put flatteners on in HY14-hy15-hy16-hy17 series while we own the protection on the 5yr now
- let the longs in HY10-hy11 series live as they have lost already 18 names out of 100 and look safer than hy 14 to hy17 series $\frac{1}{2}$

P&L possible range : the loss is likely to range between 100m to 300m

- main reason is the CDX IG9 lag (2-3bps or 100-150m)
- second next is CDX HY: the hit is another 100m spread within the tranche and index bid-ask. Typical here, you cannot really trade but the mid does not change.

- third is Main itraxx : the curve in S9 steepened by Sbps pushing the forward back up while the other curves steepened 1 bp in the raily. The hit here is 80-100m.
- the estimated bid-ask on the book grossly amounts to 500m all-in (200m for IG, 100m for Itraxx main, 200m for CDX HY).

Conclusion

- the book has very useful features and should be maintained with its upside on defaults as much as possible.
- the market is very small now and we are too visible with likely some of our trades creating a concern among dealers: this affects us both in the bid-ask cost and the Mark_To_market because the street owns the long term protection to cover their legacy, ie "no default" trades mostly held in form of steepeners and long risk in short term equity tranches.
- there is a trap that is building: if we limit the Mark-To_Market we risk increasing the notionals further and weaken our position versus the rest of the market. One solution would be to let the book be really long risk, yet this would not be in a liquid market and may increase the P&L noise especially in corrections.
- the solution proposed amounts to be longer risk and let the book expire carrying the upside on default: I think we own here a very good position for a size that is also significant. This would involve some mechanical trading, ie buy protection on 10yr equity tranches, put flatteners in HY 14-17 and SELL protection on spread wdidening.

The PNL breakdwon and bid-ask analysis will come soon after. Julien is on it.

Bruno

From: Drew, Ina <Ina.Drew@jpmorgan.com> Sent: Tue, 20 Mar 2012 23:59:59 GMT

Macris, Achilles O <achilles.o.macris@jpmorgan.com> To:

Subject: Wed call

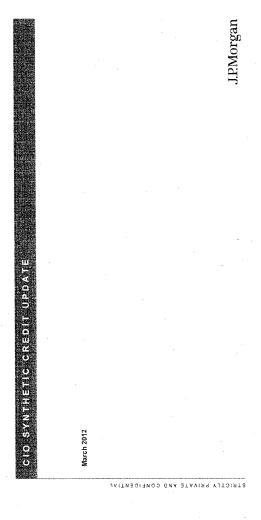
Redacted by the Permanent Subcommittee on Investigation

Achilles Javier briefed me this morning on the credit book. He sounded quite nervous. Let's discuss on our weekly call. The full briefing is later in the morning but I want to understand the course of action from you.

I believe John communicated but there is still activity.

From: Iksil, Bruno M <bruno.m.iksil@jpmchase.com>
Sent: Thu, 29 Mar 2012 21:18:08 GMT

To: Martin-Artajo, Javier X <javier.x.martin-artajo@jpmorgan.com>
Subject: First draft of the presentation



Core Credit Book: summary

- 1- the beta adjusted moves
 - case of a 1x1 hy vs IG position : illusions with spreads and bp measure sensitivities
 - the book remains neutral x% CS01 : implications
 - 1- if IG9 lags, the book becomes long risk, because we are long risk in IG9
 - 2- if HY decompresses, the book becomes short risk, because we are short risk in HY
- 2- the Method
 - Look at beta adjusted moves on history : the whole story is about compression and decompression
 - breakdown the risk from beta factors
 - 1- the book has a directional bias, but next it is all about expected loss changes (mixing carry and
 - 2- the beta neutral book breaks into 3 parts:
 - a- decompression trade ie HY vs IG on the run
 - b- S9 vs. IG on the run and hy off the run vs HY on the run
 - c equity tranche slope
- 3- the findings : target YTD at -750M
 - the book is huge: 95Bin IG9 and 38Bin S9 fwds , decompression (8M bp in HY or 25Bin, 2.3M in Xover or 7Bin)
 - Decompression worked very well and only starting : total gain ytd of 600M (60Bp Xover, 60bps in HY) we captured 12% decompression out of a move of 18%
 - Series9 lag is overwhelming : total loss YTD is 1.5bln (22bps in IG9 fwds and main S9)
 - directionality -60M and carry -40M (with no roll down) : total 100m
 - -defaults (Kodak and Rescap) cost are estimated at 100M total
 - 0-3 equity slopes cost a total 200M : 50M in itraxx (2pts) and 150M in CDX IG (5pts)
 - -New trades : gain 200M

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Core Credit Book: Trading activity: positions and new trades

Rationale for the positions increase :

- 1- cover the HY downside on some defaults, prepare for IG tightening, stay market neutral to minimize RWA
- 2- started by selling IG9 5yr and S9 5yr : the curve steepened and the forwards moved up
- 3- sold S9 and IG9 5x10 to limit the P&L hit
- 4- defended the P&L at Month end while the decompression kept going and increased the underperformance of S9 series

Itraxx Block		All trades	Start Jan Book	Start Feb Book	Start March Book	Current Book
Main OTR Xover	3.700	-2,479,033,784	-3,756,756,757	-3,283,783,784	-4,884,371,622	-6,235,790,541
Main OTR IG	4.500	10,599,246,667	16,062,222,222	14,040,000,000	20,883,402,222	26,661,468,889
S9 Fwd	4.300	15,534,528,571	20,497,375,000	27,746,375,000	33,398,625,000	38,511,625,000
5yr IG OTR eq	4.500	14,844,105,079	19,586,380,556	26,513,202,778	31,914,241,667	36,799,997,222
Net 5yr OTR	4.500	22,472,525,079	-4,116,619,444	6,190,069,444	14,082,350,556	20,725,417,222
CDX block		All trades	Start Jan Book	Start Feb Book	Start March Book	Current Book
HY OTR	4.100	-12,027,013,171	-7,246,905,439	-7,695,056,537	-14,662,635,805	-19,273,918,610
IG OTR	5,000	52,269,399,240	31,495,051,038	33,442,715,708	63,723,815,208	83,764,450,278
Hyotr	4.100	-2,550,011,220	-8,555,429,927	~11,325,839,805	-11,224,162,976	-11,105,441,146
HY10-11	2.435	4,293,653,388	14,405,446,694	19,070,202,546	18,899,001,314	18,699,100,082
IG9 fwd	4.500	39,888,688,889	54,651,951,114	75,029,095,559	94,017,484,448	94,540,640,003
IG OTR	5.000	-35,899,820,000	-49,186,756,003	-67,526,186,003	-84,615,736,003	-85,086,576,003
Net IG OTR	5.000	12,061,510,760	-20,135,375,035	-5,227,009,705	-8,934,809,205	-8,073,864,275

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Core Credit Book: BP sensitivities and Directionality of the book

As spreads tightened the IG9 and S9 10yr saw their duration increase while all other legs had a shrinking duration

- 1- this created an increase on the expected loss of the long risk that was amplified with the forward exposure
- 2- the decompression created a long risk that was covered with a short risk in HY as the market rallied (Var minimization)
- 3- this long risk exposure should have been maintained ; this would have triggered an increase in RWA and Var
- 4- the decompression trade in HY and Xover was never large enough due to the legacy because we had to increase the position to defend the P&L hit without being able to stay long risk (due to RWA & Var constraints)
- 5- the decompression in S9 (around 25%) have induced a natural increase of long risk circa 10BIn long risk in main and 25BIn long risk in IG

CS01	All trades	0 Start Jan Book	Start Feb Book	Start March Book	Current Book
Main OTR Xover	-917,243	-1,390,000	-1,215,000	-1,807,218	-2,307,243
Main OTR IG	4,769,661	7,228,000	6,318,000	9,397,531	11,997,661
0					
S9 Fwd	6,679,847	8,813,871	11,930,941	14,361,409	16,559,999
5yr IG OTR eq	6,679,847	.8,813,871	11,930,941	14,361,409	16,559,999
0	•				
Net 5yr OTR	10,112,636	-1,852,479	2,785,531	6,337,058	9,326,438
0					
CDX block	All trades	Start Jan Book	Start Feb Book	Start March Book	Current Book
HY OTR	-4,931,075	-2,971,231	-3,154,973	-6,011,681	-7,902,307
IG OTR	26,134,700	15,747,526	16,721,358	31,861,908	41,882,225
0					
Hyotr	-1,045,505	-3,507,726	-4,643,594	-4,601,907	-4,553,231
HY10-11	1,045,505	3,507,726	4,643,594	4,601,907	4,553,231
o					
0					
IG9 fwd	17,949,910	24,593,378	33,763,093	42,307,868	42,543,288
IG OTR	-17,949,910	-24,593,378	-33,763,093	-42,307,868	-42,543,288
Net IG OTR	6,030,755	-10,067,688	-2,613,505	-4,467,405	-4,036,932

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Core Credit Book: P&L explain

Positives	+1020M USD	Negatives -1820M USD	
Decompression	+560M USD	Steepening S9 and IG9 -1000M USD	
HY off the run	+ 200M USD	Defaults - 150M USD	
Carry	+ 150M USD	Duration effect - 450M USD	
New trades	+ 110M USD	Equity tranche steepening220M USD	***********

	<u> </u>	Feb	March	Current Book	TOTALS
Book	TOTALS	88,516,208	-12,239,142	-180,141,486	-103,864,420
Itraxx Block					0
Xover/main ratio	1	58,799,595	44,189,466	57,852,908	160,841,968
S9fwd ratio	,	-52,805,736	-122,108,870	~242,054,1 2 7	-416,968,733
Tranche P&L	1	20,000,000	-20,000,000	-50,000,000	-50,000,000
New trades P&L		50,000,000	20,000,000	0	70,000,000
directional		12,522,349	65,680,263	54,059,733	132,262,345
	TOTALS				TOTALS
IG block		-118,638,384	-71,133,553	-524,044,348	-713,816,284
HY/IG ratio		89,015,888	120,496,700	199,004,093	408,516,681
HY off ther un vs on the run		181,036,597	56,597,893	-34,187,796	203,446,695
IG9 Fwd	İ	-340,643,952	-69,926,692	-544,970,101	-955,540,745
Tranche P&L		-35,000,000	-70,000,000	-65,000,000	-170,000,000
New Trade P&L		20,000,000	20,000,000	0	40,000,000
directional		-33,046,916	-28,301,454	-28,890,544	-90,238,914
Defaults			-100,000,000	-50,000,000	-150,000,000

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CDX IG9	Spread compressio	spread 03/01/2012	spread 27/03/2012 [Ouration chge	Spread chge	Duration adjusted	Beta adjust Dur1	D	ur2
5yr	48%	132	68	-23.00%	64	90.90	92.3	0.97	0.
7vr	37%	140	88	-14.00%	52	57.80	51.5	2.82	2.
10yr	26%	149	111	2.000%	- 38	37.51	29.3	5,26	5
On the run 5yr	32%	121	82	-9.00%	39	40.98	41.0	4.65	4.:
S9 forward	22%	152	118	26.00%	34	26.06	19.6	4,29	4.
IG15	35%		72	-12.00%	39	41.94	46.5	3.8	3.9

Main S9	Spread compressio	spread 03/01/2012	spread 27/03/2012 I	Duration chge	Spread chge	Duration adjusted	Beta adjust Dur1	Du	л2
5үг	48%	170	89	-21.00%	81	101.37	79.5	1.44	1.
7yr	34%	189	124	-9.00%	65	69.42	45.0	3.23	3.
10yr	26%	195	145	20,000%	50	43.97	26.3	5.54	5.
On the run 5yr	34%	173	115	0.04	- 58	56,69	40.0	4.38	4.
S9 forward	22%	206	160	36,00%	46	30.54	16.9	4.08	4.

Component	Itraxx Main S9	CDX IG 9
10yr underperformance	8 Bp	1 Bp
Steepening	4 Bp	4 Bp
Duration effect	4Bp	10 Bp
Beta adjustment	8 Bp	7 Bp
Total	24 Bp	22 Bp

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Core Credit Book: Analysis of the IG9 performance

IG9 can be proxied as a normal IG index of 117 names and 5 HY Names (MBIA, RADIAN, ISTAR, SPRINT, RR Donnelley) :

- -The 5 names behaved like the whole HY market : they underperform the IG market and steepened a lot
- Their move relative to the rest of IG indices allows to explain most of the lag in IG9 curve but not all
- Yet 5yr IG9 outperformed by 3Bps, 7yr outperformed by 4 bps while 10yr underperformed by 2 Bps : the net P&L impact is -100M USD

5yr	compression	spread 03/01/2012	spread 27/03/2012 Dura	tion chge	Spread chge	Index eq bp		index based th	eo	
CDX IG9	61%	132	68	-23.00%	64		64.00	64.0	0.97	0.74
RDN	60%		12,48%		18.5%		15.18	18.82% -	0.24	
MBIA	28%		11.49%		4.5%		3.70	9.71% -	4.26	
SPRINT	63%		2,17% IG ti	ghtening	3.6%		2.98	3.52%	0.09	
RRD	59%	4.09%	1.68%	55.00%	2.4%		1.98	2,48% -	0.06	
SFI	73%	12.62%	3.40% sim	ul	9.2%		7.56	7.66%	1.28	
% Index loss	55%	44%	51%	55.04%	31.39			-	3.20	

7vr	compression	spread 03/01/2012	spread 27/03/2012	Duration chge	Spread chge	index eq bp		index based the	heo	
CDX IG9	40%	140	88	-14.00%	52		52.00	52.0	2.82	2.68
RDN	34%	52.00%	34.50%		17.5%		14.34	20.94% -	2.82	
MBIA	14%	36.00%	31,00%		5.0%		4.10	14.49% -	7.78	
SPRINT	14%	21.00%	18,00%	G tightening	3.0%		2.46	8.46% -	4.47	
RRD	20%		12.00%	45.00%	3.0%		2.46	6.04% ~	2.49	
SFI	12%		23.00%	simul	3.0%		2.46	10.47% -	6.12	
% Index loss	21%		41%	35.12%	23,36			-	23,68	

10yr	compression		spread 03/01/2012	spread 27/03/2012	2 Duration chge	Spread chge	Index eq bp		ndex based t	heo	
CDX IG9		6%	149	111		38		37.51	29.1	5.26	5.28
RDN		6%	66.00%	49.00%	5	17.0%		13.93	16.65%	0.29	
MBIA		10%	51.00%	46.00%	,	5.0%		4.10	12.86% -	6.44	
SPRINT		1%	36.50%	36.00%	IG tightening	0.5%		0.41	9.21% -	7,14	
RRD	1	3%	30.00%	29.00%	33.00%	1.0%		0.82	7.57% -	5.38	
SFI		9%	38.50%	31.00%	simul	7.5%		6.15	9.71% -	1,81	
% Index loss		14%	23%	27%	27.91%	19.26			-	20.48	

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Core Credit Book: The devil in the details

1-The steepening of the IG9 HY names was more aggressive than the whole HY market: this result in an underperformance of 80M USD

OTR HY tightening	15.100%	IG9 10yr impact
IG9 HY block tight	14%	0,33
HY off the run tight	29.733%	IG9 7yr impact
IG9 &yr Hy block	21%	
1 Yr HY tightening	45%	ig9 5yr impact
IG9 5yr HY block	55%	- 3.46

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Core Credit Book: Summary

- 1- the Book has been missing an extra 35M CS01 : this is a cost opportunity of 1.2 Bln due to the 40 bps rally in IG
 - this long risk shows naturally in the spread tightening and with the coming expiry of the short term S9 leg
 - it triggers a an increase in Var- stress Var- CRM- IRC-RWA across the board it we maintain the book balanced
- 2- the need to reduce VAR RWA and stay within the CS01 limit prevented the book from being long risk enough
 - as we bought protection on HY in the rally, we kept the 10%CS01 neutral to slightly bull
 - the slight bullish bias was dwarfed by the exposure in the forwards that kept increasing to protect the P&L
- 3- Thus a decompression trade was put on in order to remain market neutral, but it increased the CS01 very fast
 - as a result a decompression trade built up both in Xover and Main : it is a good trade that performed well
 - -yet, selling more protection in IG to balance the protection we bought in HY put us close to the CS01 limit
- 4- The long risk exposure would likely have missed the first 15 bps and the realistic P&L miss is rather 800M USD
 - despite the conviction on the rally in IG spreads, we needed to sell 10Bin in main and 30Bin in IG ideally which is a significant bullish bet
 - in early February and early March, when spreads widened back, the book would likely have suffered a weekly loss of up to 200M each time: this was not an acceptable P&L noiseSo the long would have been implemented slowly anyway
- 5- carrying this long risk exposure would have triggered some brutal P&L swings of 100-200 in early February and March.
 - the book was aiming at fine tuning the P&L noise while reducing the risks and the notionals on opportunities
 - the losses coming from the IG forwards were already wild, so we waited before being outright long risk for fear the noise would just increase more

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JPM-CIO-PSI 0001256

Core Credit Book: Storyboard

- 1- Starting point initially the book kept deleveraging in January reducing the shorts in series 9 5yr, removing the short risk in IG, adding short risk in HY. The aim was to create some options on the book as in 2011 to reduce aggressively on opportunities.
- 2- Mission ; balance the book. ;
 - a-it was slightly long risk since the 15th of January

b-some protection on HY was bought to reduce the loss on some HY defaults like Kodak and rescap

- c- put some decompression trade to go long IG and neutralize the cost of carrying the protection in HY
- 3- Execution : it went all bad....
 - the forward spreads started underperforming and this created a residual long risk exposure that had to be covered to reduce the Var and RWA
 - the notionals in series 9 were too large and the loss was way larger than the small directional gain (Jan and
 - The decompression in HY and Xover sped up in March and this put the book short risk and worsened the loss in the forwards

4- What Happened?

- January : tried to reduce the short in the IG9 and S9 5yr but this pushed the forwards up and the potential was already 400M. We reported a loss of 130M USD YTD
- February: tried to cover the HY downside risk to default and added to IG9 and S9 forwards in order to contain the P&L loss as decompression kept going. We reported a loss of 220M USD YTD

-March: the notionals increased in forward position uselessly and loss accelerated to incredibly high levels. The move was too fast and painful.

5- Plan

- put the book to sleep : to stop flagging our moves to the market
- maintain a long risk bias with on the run IG indices to keep a good carry in front of the upside on defaults
- buy up to 5Bin protection in IG9 0-3 10yr and 2.5Bin Main s9 10yr 0-3 to flatten the future default profile

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Core Credit Book: Risk Management and execution mistakes 1- The reduction of the 5yr IG9 and S9 early in January turned out to be a bad move:

- initially, sell 5 yr on a roll basis vs on the run IG indices allowed to reduce the short, improve the carry, reduce the sensitivity of the book towards flattening and pre-empt a tightening in IG spreads without increasing CS01.
- the market players quickly steepened the S9 curves starting the underperformance of the forwards: because the slight long risk bias was insufficient to cover the loss, we added back some flatteners to correct the hit.
- 2- The Kodak default triggered a second wrong move :
 - The loss was 50M and we started covering the risk in February by selling HY14-HY17 indices that contained MBIA, Radian, MGIC, ISTAR given that RESCAP risk to default was growing.
 - However, by selling those series and targeting the "mortgage & insurance" related names, we aggravated the underperformance of the IG9 forwards because they contain MBIA, Radian and ISTAR
 - As a result, those names underperformed the whole market. Thus the decompression trade worked but the IG9 forward especially underperformed in the rally and this is where the main long risk of the book is.
- 3- The Xover / Main decompression trade....
 - Due to the need to contain the RWA-Var complex, we sold protection on main while buying protection in Xover
 - This was a way to profit from either a recovery in Europe IG space without
 - The decompression in HY and Xover sped up in March and this put the book short risk and worsened the loss in the forwards
- 4- What would have happened if none of these bad moves were initiated?
 - The decompression would have happened anyway and the forward underperformance may have been twice smaller or down 750. All these mistakes induced an increase in the forward positions to contain the P&L hit.
 - If the book had gone long risk fully, the Var would have increased and the RWA as well: likely 10-15 Bln RWA
 - -The carry would have improved and the book would have had twice a weekly drawdown of 200M

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Redacted by the Permanent Subcommittee on Investigati

From: Achilles Macris

Sent: Wed, 04 Jan 2012 06:57:54 GMT

'Martin-Artajo, Javier X' \(\sigma\) avier.x.martin-artajo@jpmorgan.com> To: Subject: FW: RWA reduction for Core Credit - scenario analysis summary

Did you see this?

 $\textbf{From:} \ Giovannetti, \ Alison \ C \ [mailto:alison.c.giovannetti@jpmorgan.com]$

Sent: 03 January 2012 17:27
To: Martin-Artajo, Javier X
Cc: Macris, Achilles O; macris@btinternet.com
Subject: FW: RWA reduction for Core Credit - scenario analysis summary

Hi Javier.

Left you a voicemail, can you give me a call +44 207 325 8025.

Thanks Alison

From: Wilmot, John

Sent: 03 January 2012 15:37
To: Giovannetti, Alison C
Subject: FW: RWA reduction for Core Credit - scenario analysis summary

We need to close the loop on cost of reducing another 5bn in RWA from the tranche book (to 15bn by YE2012, gradual reduction over the year). Ina, Javier and I weren't able to discuss this slide specifically as it was sent after our last call. If you can give me an estimate by EOD that would be helpful. Thanks.

John C. Wilmot | Chief investment Office | 🖾 john.wilmot@jpmorxan.com | 🕿 Work: (212) 834-5452 | 🕿 Cell: (917) 664-1690

From: Grout, Julien G

Sent: Thursday, December 29, 2011 10:58 AM
To: Drew, Ina; Wilmot, John; Martin-Artajo, Javier X

Subject: RWA reduction for Core Credit - scenario analysis summary

Hi - please find attached a grid for the Core credit Book RWA reduction scenarios. Please note that we will not be able to make any sensible and efficient work on RWA for the core book without any 'marginals' numbers produced by QR. Currently any major reduction will lead to a very high cost though proportional reducing.

Julien

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CORE Credit RWA Reduction Scenarios - Summary

RWA Reduction Target	\$28	\$5B	\$7B	\$10B
Proposed Execution	Reduction of long dated equity long IG9 roll Short CDX.HY (old and new series) the desk is currently implementing those	Same trades (as on the left) 11% proportional reduction	24.5% proportional reduction	35% proportional reduction
Execution Cost	\$101M	\$273M	\$362M	\$516M
Carry Give up (FY 2012)	\$90M if starting Q1 2012	•\$134M if starting Q1 2012 •\$123M if starting Q2 2012	*\$93M if starting Q1 2012 *\$70M if starting Q2 2012	•\$133M if starting Q1 2012 •\$100M if starting Q2 2012
Default Profile (first default)	•CDX.HY: +\$32M •CDX.IG: +\$219M •iTraxx: +\$207M	•CDX.HY: +\$28M •CDX.IG: +\$195M •iTraxx : +\$184M	•CDX.HY: (\$198M) •CDX.IG: +\$166M •iTraxx: +\$168M	•CDX.HY: (\$171M) •CDX.IG: +\$143M •iTraxx: +\$145M
Default Profile (second default)	•CDX.HY: +\$25M •CDX.IG: +\$229M •iTraxx: +\$225M	•CDX.HY: +\$22M •CDX.IG: +\$204M •iTraxx: +\$200M	•CDX.HY: (\$39M) •CDX.IG: +\$228M •iTraxx: +\$229M	•CDX.HY: (\$33M) •CDX.IG: +\$196M •iTraxx: +\$197M

From: Drew, Ina <Ina.Drew@jpmorgan.com> Sat, 07 Apr 2012 16:40:15 GMT Sent: Goldman, Irvin J <irvin.j.goldman@jpmchase.com>; Wilmot, John <JOHN.WILMOT@jpmorgan.com> To: Subject: Fw: Sunday call I am going a deep dive tomorrow in prep for a review with doug/jamie From: macris@t Sent: Saturday, April 07, 2012 02:50 AM To: Drew, Ina Cc: Martin-Artajo, Javier X; Adam, Phillipa C Subject: Sunday call I am changing my flight to return to London Sunday early morning GMT -- any time is fine for me. How about Sunday 14,00 EST -- 19.00 GMT? Javier we can take the call together from my flat if you like From: "Drew, Ina" <Ina Drew@jpmorgan.com>
To: "Martin-Artajo, Javier X" <javier.x.martin-artajo@jpmorgan.com>; "macris@i
Sent: Saturday, 7 April 2012, 1:56
Subject: Re: Credit Give me a time sunday that works for you. From: Martin-Artajo, Javier X Sent: Friday, April 06, 2012 04:42 PM Redacted by the Permanent Subcommittee on Investigation To: Drew, Ina; macris@ Subject: Re: Credit Will do . Thank you . From: Drew, Ina Sent: Friday, April 06, 2012 09:22 PM To: macris@ Cc: Martin-Artajo, Javier X Subject: Re: Credit Ok. Thanks, Maybe we should review what you have sunday. Let me know From: macris@ Sent: Friday, April 06, 2012 04:04 PM To: Drew, Ina Cc: Martin-Artajo, Javier X Subject: Re: Credit We spoke with Javier at length following our conversation. We will be prepared for the call on Monday..

Javier is convinced that our overall economic risk is limited. There is no default event to amplify our losses as the same critical names are part of our short in HY and our long in IG.

Any further draw-down, will be the result of further distortions and marks between the series where we are holding large exposures. This clearly needs to be estimated with much more precision.

I also have no doubt that both time and events are healing our position. I am however unsure on the potential

I also have no doubt that both time and events are healing our position. I am however unsure on the potential magnitude of an "one touch" draw-down for Q2 which is highly dependant on marks.

Both Javier and Bruno continue to be extremely concerned about the confidentiality around our specific large exposures. The press seems to be referring to CIO position size which is different to the overall JPM size on the same instruments. Additionally, there were some specific HF's calling our team and trying to get information from both front-office and infrastructure personnel (f).

front-office and infrastructure personnel (!). As you know, I am not regularly giving much credence to such rhetoric. I have nevertheless asked for a summary of the specifics for your information.

Best, Achilles

From: "Drew, Ina" <Ina.Drew@jpmorgan.com>
To: "Macris, Achilles D" <achilles.o.macris@jpmorgan.com>; "macris@
Sent: Friday, 6 April 2012, 17:13
Subject: Credit

Jamie and Doug want a full diagnostic monday. I will need it sunday night. More focused on p l than rwa at moment as I indicated. I'm not comfortable with the level of analysis so far. I tried to reach you by phone and text. This email is confidential and subject to important disclaimers and conditions including on offers for the purchase or sale of securities, accuracy and completeness of information, viruses, confidentiality, legal privilege, and legal entity disclaimers, available at http://www.jpmorgan.com/pages/disclosures/email.

= Redacted by the Permanent Subcommittee on Investigation

From: Martin-Artajo, Javier X <javier.x.martin-artajo@jpmorgan.com>
Sent: Mon, 09 Apr 2012 11:49:16 GMT
To: Drew, Ina <Ina.Drew@jpmorgan.com>
Subject: One point about yesterdays call

Ina ,

When you asked last week about what we needed to do in the Core Book I forgot to mention yesterday that the book as it is is stable and does not need to be rebalanced unless there is a credit event . So at this point with all major risks balanced the book as it is we do not need to trade in the market for a few months

Regards

Redacted by the Permanent Subcommittee on Investigations

From: Braunstein, Douglas <Douglas.Braunstein@jpmorgan.com>

Sent: Tue, 10 Apr 2012 18:49:24 GMT

Alvelo, Alexandra X <alexandra.alvelo@jpmorgan.com> To: Subject: FW: 8:30am Calls Set up for Wednesday and Thursday

Must do

Douglas L. Braunstein | Chief Financial Officer | JPMorgan Chase & Co. 270 Park Avenue | New York, NY 10017 | Tel. 212-622-1020 | |eFax: 917-464-7578 | e-mail: douglas.braunstein@jpmorgan.com

From: Drew, Ina
Sent: Tuesday, April 10, 2012 2:19 PM
Tuesday, April 10, 2012 2:19 PM
Türkiya Dimon, Jamie; Braunstein, Douglas; Zubrow, Barry L; Hogan, John J.; Staley, Jes; Macris, Achilles O
Cc: Serpico, Gina; Wilmot, John; Goldman, Irvin J
Subject: 8:30am Calls Set up for Wednesday and Thursday

I am setting up a call on Wed and Thurs (we will continue Monday or as needed) for this group to get updates on the Credit Book and make sure we are all up to date. I want to make sure that we are responding appropriately to all of the deliverables and questions. We can also report back on our individual discussion with regulators, analysts, press etc. Gina will contact your admins and set up a dial in from my office. If you can call in or come that would be helpful. Thank you for your help and support.

Ina

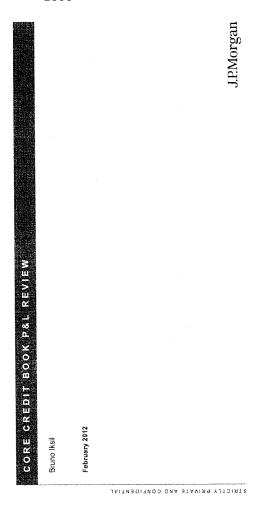
From: Iksil, Bruno M <bruno.m.iksil@jpmchase.com>

Sent: Wed, 22 Feb 2012 12:14:48 GMT

To: Martin-Artajo, Javier X <javier.x.martin-artajo@jpmorgan.com>; Perryman, Andrew X <andrew.perryman@jpmorgan.com>; berner, andy x <andrew.perryman@jpmchase.com>

Subject: core credit latest version

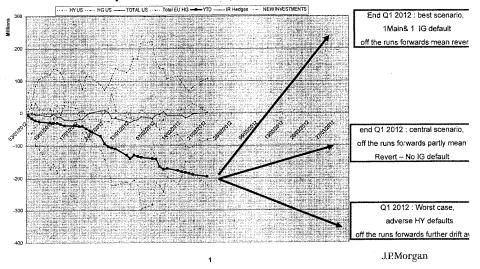




CORE CREDIT BOOK PAL REVIEW

Credit book YTD story

- The book is using the remaining liquid tranche markets to receive 5yr into 1yr forward spreads
- The Core credit book was up 350M in 2011 (up 2.1 Bln since 2007)
- 3. The loss YTD 2012 mostly from off the runs underperformance vs on the run indices



Credit book Main feature: carry-convexity- default exposure all positive!

Negatives?: some HY 10-11 specifics, off-the-run to on-the-run basis MTM

- The book conveys a daily positive carry of 1M\$ to 1.5M\$, provides upside on gap risk, upside on IG index based defaults (all IG series both CDX and Itraxx from series 9 to on 16) and some US HY indices
- The book would lose money on some US HY specific defaults (30-40M\$ per name) or on motionless markets (curve steepening and no spread volatility)
- The Core book will trade on the bullish side (risk wise) given the positive convexity and the general outlook....
- 4. The potential P&L recovery until Dec2012 is estimated at: 500M\$ (out of other trading gains/losses)

□ Carry (40M\$ per month) : 350M\$

■ Default gains vs losses :150M\$

(conservative assumptions0 : 6 "adverse" default and 1 "favorable" default in Main, IG and HY)

- 6 Adverse default in Hy10 and hy11 serie would cost circa 100M\$ (15M\$ on average per default)
- 1 default in Itraxx Main would bring in 70-100M\$
- 1 default in IG9 would bring in 70M\$
- 1 default in HY14-hy17 would bring 50-100M\$

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Annexes

Annex 1 : P&L drill down analysis

Annex 2 : Forward credit spreads, rationale and carry

Annex 3: default exposure analysis

Annex 4 : main bullet points end of January 2012

Annex 5 : CDX IG 9 " skew story" beneath the current underperformance

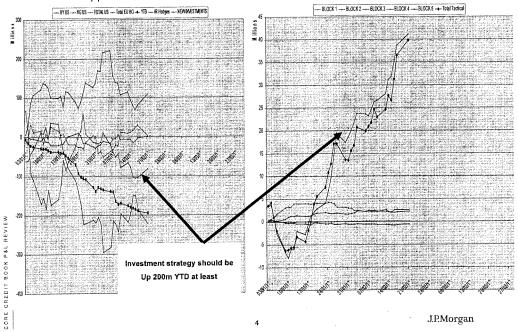
Annex 6 : The need for hedging interest rate exposure on forward credit spreads

Annex 7 : core versus Tactical : same view but different implementations

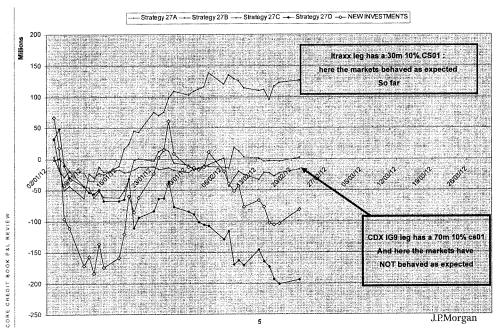
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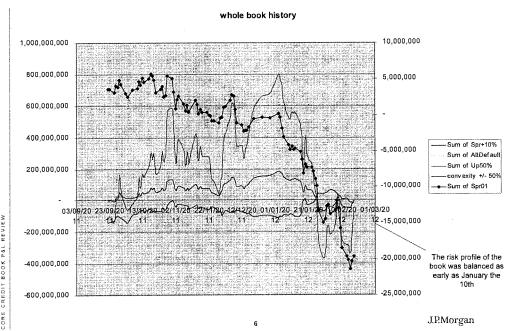
Annex 1 : Credit book YTD P&L history : tactical and Core (10-20 times larger) P&L move in opposite directions

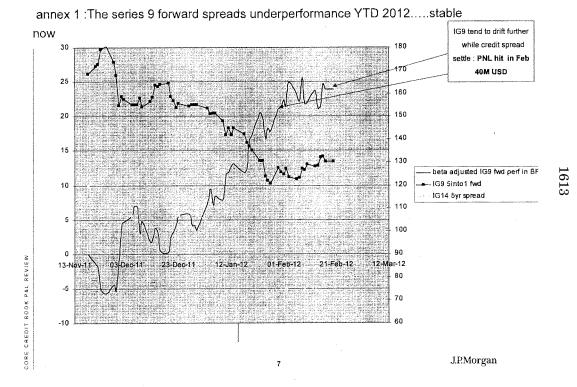


annex 1 : Credit book : "new investment" P&L history breakdown : CDX IG9 had un expected behaviour.... The rest of the book has performed in line...

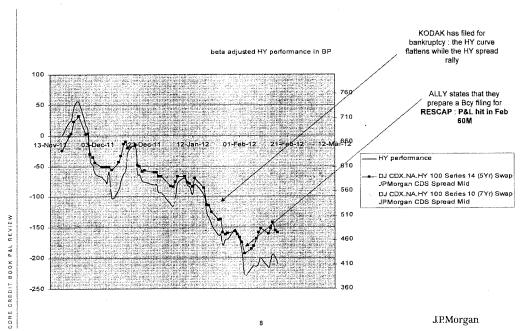


annex 1: Credit book Risk management history

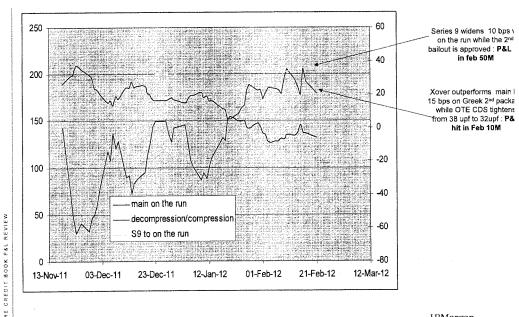




annex 1: The HY11-10 series kept underperforming Hy14-17

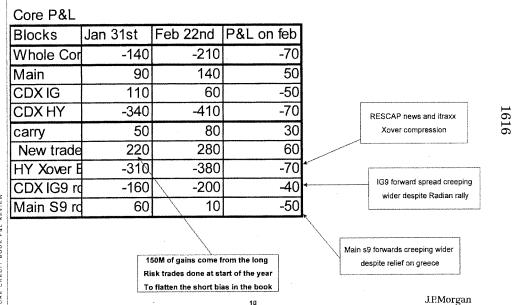


Annex 1: The main S9 Fwd started drifting away from on the run market while Xover started outperforming..



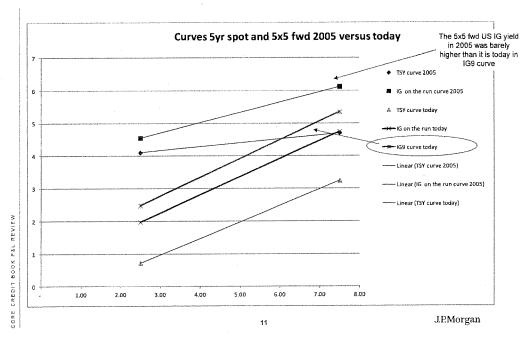
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Annex 1: P&L summery YTD Feb 22nd 2012

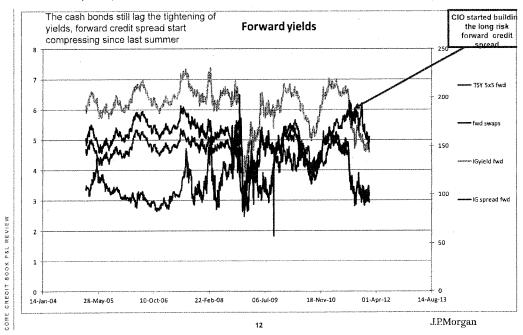


CREDIT BOOK PAL

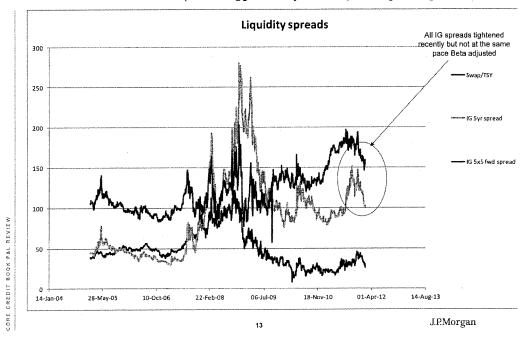
annex 2 :The opportunity on the credit forward curve..... The forward yields have barely changed since 05 .. The IG9 is the right spot despite the 5 risky names



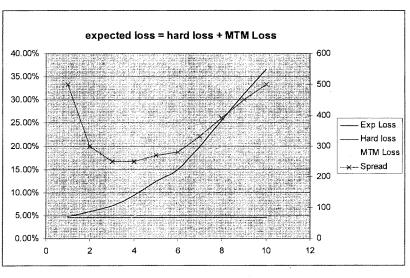
annex 2:5yr x 5yr Forward yield history



Annex 2: The forward credit spreads lagged the 5yr credit spread tightening



annex 2 : the markets focus on mtm risk more than idiosynchratic risk.



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Annex 2: The book has a positive daily carry of 1m\$ to 2m\$ depending on spread and curve levels

carry

Block	gross carry	fwd roll down
itraxx	500,276	1,152,241
cdx ig	891,954	1,900,639
cdx hy	-825,139	-1,628,535

total	567,091	1,424,345

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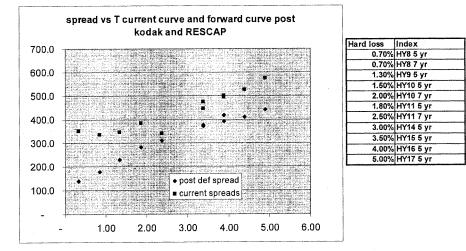
Annex 3: Book exposure to riskiest names

1 KA.L	prometri		P.A., waguering	Mar in	Minny repart					
linky russiss .	. Humbii	Mark					nersie k.l.			
							rtiik yak			
									Aller Ada Bar	
			kaaman katawa							
DX IG and HY				P&L expected	agyert greet, side	Markets	-5.0 (PP)	et et e trocke.	arena i i al la	1
Risky names	HY OTR		Main	on default	Max loss	Jump imp	LGD	spread in	Priced in	
Radian	266	-155	115	67,800,000	180,800,000	30.00%	80.00%	20.00%	50.00%	
MBIA	266	0	115	152,400,000	304,800,000	40.00%	80%	17%	40%	
star	266	0	115	228,600,000	304,800,000	60.00%	80%	8%	20%	
Countrywide	Ö	0	115	74,750,000	92,000,000	65.00%	80%	4%	15%	
R donneley	0	0	115	51,750,000	69,000,000	45.00%	60.00%	4.00%	15.00%	
LFC	266	0	115	171,450,000	228,600,000	45.00%	60.00%	4.00%		746,750,0
RESCAP	266	-320		- 10,800,000	- 40,500,000	20.00%	75.00%	24.00%	55.00%	
ODAK	266	-295		- 1,450,000	- 21,750,000	5.00%	75.00%	70.00%	70.00%	
XU	237	-295		- 17,400,000	- 49,300,000	30.00%	85.00%	23.00%	55.00%	
OVNANIAN	266	-295		- 5,800,000	- 18,850,000	20.00%	65.00%	20.00%	45.00%	
CAESAR Ent	266			- 8,700,000	- 18,850,000	30.00%	65.00%	16.50%	35.00%	
Clear Channel	266	-295		- 9,570,000	- 18,850,000	33.00%	65.00%	16.00%	32.00%	
Realogy	266			- 20,520,000	- 35,100,000	38.00%	65.00%	12.00%	27.00%	
Sabre	266	-295		- 11,020,000	- 18,850,000	38.00%	65.00%	12.00%	27.00%	- 85,260,0
MGIC	76			36,480,000	64,600,000	48.00%	85.00%	17.00%	37.00%	l
Alcatel USA	76			36,480,000	57,000,000	48.00%	75.00%	12.00%	27.00%	1
Super Value	144			64,800,000	100,800,000	45.00%	70.00%	10.00%	25.00%	1
Dean Food	266			109,060,000	159,600,000	41.00%	60.00%	7.00%	19.00%	1
Toys R Us	266			111,720,000	159,600,000	42.00%	60.00%	6.00%	18.00%	
		t	1	66,500,000	106,400,000	25.00%	40.00%	4.50%	15.00%	total
ALLY	266	-155		49.950.000	72,150,000	45.00%	65.00%		20.00%	

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spread vs T current curve and forward curve post kodak and RESCAP

Annex 3: Post Kodak and RESCAP auctions and implied Hard losses: HY curves look steep but consistent...Hy14 to hy16 anticipate 1 to 4 more defaults than HY8 to hy11 series



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Annex 3: European risky names Xover

					,
Name		Eqty Tkr		5 Yr CDS Tkr	
Hellenic Telecommunications Organization	2	HTO GA	HTOGA	COTE1E5	2060.655
Norske Skogindustrier ASA	2	NSG NO	NSINO	CT352336	1645.506
One Finance II PLC	2	8143340Z ID	ONOSM	CT358298	1216.146
Scandinavian Airlines System Denmark-Nor	2	SAIR SS	SAS	CSAS1E5	1197.871
ConvaTec Healthcare E SA	2	0121070D LX	CONVAT	CY088818	1064.562
Alcatel-Lucent/France	2	ALU FP	ALUFP	CALC1E5	1052.064
Wind Acquisition Finance SA	2	8420224Z LX	WINDIM	CT355118	999.053
Ineos Group Holdings Ltd	2	6623Z LN	INEGRP	CT358901	947.272
Societe Air France	2	394859Z FP	AFFP	CAFR1E5	914.876
M-real OYJ	2	MRLBV FH	MESSA	CMES1E5	901.23
Fiat SpA	2	FIM	FIAT	CFIAT1E5	842.967
Portugal Telecom International Finance BV	2	1332Z NA	PORTEL	CPORT1E5	842.537
Melia Hotels International SA	2	MELSM	SOLSM	CSOL1E5	822.764
CIR-Compagnie Industriali Riunite SpA	2	CIR IM	CIRIM	CCIRI1E5	788.349
Dixons Retail PLC	2	DXNS LN	DXNSLN	CDIX1E5	760.833
Grohe Holding GmbH	2	3394Z GR	GROHE	CGRO1E5	757.834
EDP - Energias de Portugal SA	2	EDP PL	ELEPOR	CEPOR1E5	756.258
Codere Finance Luxembourg SA	2	3533037Z LX	CODERE	CX398261	752.044
Fiat Industrial SpA	2	FIIM	FIIM	CY079380	727.107
Ardagh Packaging Finance Plc	2	0121101D LN	ARGID	CY088950	694.4
Stena AB	2	1081Z SS	STENA	CT761604	679.891
Sunrise Communications Holdings SA	2	0209438Z LX	SUNCOM	CY088862	674,456
UPC Holding BV	2	3590264Z NA	UPCB	CT352145	644.488
International Consolidated Airlines Group SA	2	IAG LN	IAGLN	CBAB1E5	638.451
NXP BV / NXP Funding LLC	2		NXPI	CX404642	631.31
TUI AG	2	TUI1 GR	TUIGR	CTUI1E5	606.042

Annex 3: European risky names Main series 9

Name	Wgt	Egty Tkr	Corp Tkr	5 Yr CDS Tkr	
Hellenic Telecommunications Organization	0.8	HTO GA	HTOGA	COTE1E5	2060.655
Banco Espirito Santo SA	8.0	BES PL	BESPL	CESP1E5	967.298
Portugal Telecom International Finance BV	0.8	1332Z NA	PORTEL	CPORT1E5	842.537
Dixons Retail PLC	0.8	DXNS LN	DXNSLN	CDIX1E5	760.833
EDP - Energias de Portugal SA		EDP PL	ELEPOR	CEPOR1E5	756.258
Peugeot SA	0.8	UG FP	PEUGOT	CPEUG1E5	551.5
Finmeccanica SpA		FNC IM	FNCIM	CFMEC1E5	511.458
Banca Monte dei Paschi di Siena SpA	0.8	BMPS IM	MONTE	CBMP1E5	399.833
Telecom Italia SpA	0.8	TIT IM	TITIM	CTIM1E5	392.238
UniCredit SpA	0.8	UCG IM	UCGIM	CUNI1E5	335.833
Lafarge SA	0.8	LG FP	LGFP	CLAFS1E5	324.667
Renault SA	0.8	RNO FP	RENAUL	CREN1E5	323.473
Intesa Sanpaolo SpA	0.8	ISP IM	ISPIM	CBCI1E5	317.5
Continental AG	0.8	CON GR	CONGR	CCONT1E5	313.009
Telefonica SA	0.8	TEF SM	TELEFO	CTLFO1E5	291.365
Banco Bilbao Vizcaya Argentaria SA	0.8	BBVA SM	BBVASM	CBBV1E5	278.701
Assicurazioni Generali SpA	0.8	G IM	ASSGEN	CASS1E5	278.333
Banco Santander SA	0.8	SAN SM	SANTAN	CBSH1E5	276.167
Royal Bank of Scotland PLC/The	0.8	2783Z LN	RBS	CRBS1E5	275.667
ThyssenKrupp AG	8.0	TKA GR	TKAGR	CTHYS1E5	262.208
Societe Generale SA	0.8	GLE FP	SOCGEN	CSOC1E5	262.167
Deutsche Lufthansa AG	0.8	LHA GR	LHAGR	CLUFT1E5	261.5

annex 3:US risky names CDX IG series 9

Name	Wgt	Eqty Tkr	Corp Tkr	5 Yr CDS Tkr	Spread
Radian Group Inc	0.8	RDN US	RDN	CRDN1U5	1993,395
MBIA Insurance Corp	0.8	16302Z US	MBI	CMBIN1U5	1278.682
Sprint Nextel Corp	0.8	S US	S	CT357422	871.194
iStar Financial Inc	0.8	SFI US	SFI	CT351304	819.876
RR Donnelley & Sons Co	0.8	RRD US	RRD	CX359760	778.621
Jones Group Inc/The	0.8	JNY US	JNY	CJNY1U5	518.773
International Lease Finance Corp	0.8	0067543Q US	AIG	CILFC1U5	476.877
Liz Claiborne Inc	0.8	LIZ US	LIZ	CLIZ1U5	381.787
PulteGroup Inc	0.8	PHM US	PHM	CPHM1U5	379.518
Computer Sciences Corp	0.8	CSC US	CSC	CCCS1U5	360.08
JC Penney Co Inc	0.8	JCP US	JCP	CJCP1U5	337.314
Gannett Co Inc	0.8	GCI US	GCI	CGCI1U5	317.665
Lennar Corp	0.8	LEN US	LEN	CLEN1U5	302.542
American International Group Inc	0.8	AIG US	AIG	CAIG1U5	297.043
Alcoa Inc	0.8	AA US	AA	CAA1U5	291.697

Annex 3: US risky names HY: yellow names in short risk positions, blue names in all series (longs and shorts)

Vame				5 Yr CDS Tkr		HY17	HY16	HY15	HY14	HY11	HY10	HY9	H
nergy Future Holdings Corp		TXU US	TXU	CTXU1U5	2404.219	0	1	1	1	1 1	1 1	1	1_
Residential Capital LLC	1	578903Z US		CX351294	2336.506	1	1	1	1	1	1	1	1_
Radian Group Inc		RDN US		CRDN1U5	2302.166	1	1	1	11	1 1	0	0	1
K Hovnanian Enterprises Inc	1	15657Z US	HOV	CT357624	1984,469	. 1	1	1		1	1	1 1	1
MGIC Investment Corp	1	MTG US		CMTGI1U5	1726.136	. 1	1	C	C	0			1
Caesars Entertainment Operating Co Inc	1	16124Z US	HET	CT358457	1652.033	1	1	1	1	1	1 1		ď.
Stear Channel Communications Inc	1	2968900Q US		CCCU1U5	1617,862	1	1	1	1	1	1		Œ
MBIA Inc				CMBIN1US	1278.682	1	1	1	1	1) 0			
Alcatel-Lucent USA Inc	1	LU US	ALUFP	CLU1U5	1208.129	1	1						4
Sabre Holdings Corp	1	TSG US	TSG	CTSG1U5	1136,281	1	1	1	1		1		
Realogy Corp	1	3362726Q US	REALOG	CX404670	1110.035	1	1	1	1		1 1		1 :
SUPERVALU Inc	1	SVU US	SVU	CSVU1U5	983.18	- 1	1	1					
RadioShack Corp	1	RSH US	RSH	CRSH1U5	931.327	1	1	1	1	1 1	1 1	1	
Beazer Homes USA Inc	1	BZH US	BZH	CBZH1U5	864.397	0	C	1	1	1	1	1	Т
Sprint Nextel Corp		S US	S	CT357422	838.338	1	1	1	1	1	0	0	1
irst Data Corp		FDC US	FDC	CT355304	820.722	1	1	1	1	1 1	1	. 1	ıΤ
Meritor Inc			MTOR	CARM1U5	791,69	1	1	1	1	1 1			T
rontier Communications Corp		FTR US	FTR	CCZN1U5	757.388	1	1	1	1	1	1		
Star Financial Inc			SFI	CT351304	753,993	1	1	1	1	1 0	0	0)
AK Steel Corp			AKS	CAKS1U5	715.298	1	1	1	1	1]	1 1	1	1
Rite Aid Corp		RAD US	RAD	CRAD1U5	712,599	1	1	1		1	1	1	1
NRG Energy Inc		NRG US	NRG	CT356322	706.512	1	1	1		1	1 1	1	ıŢ-
reescale Semiconductor Inc			FSL	CX355484	705.874	1	1		1	1	1	1	1
Toys R US Inc/Old		Toy us	TOY	CTOY1U5	679.055	1	1	1	,	1 0	0	0)
Levi Strauss & Co		8089Z US	LEVI	CT357317	629.5	1	1	1	1	1	1	1	4
MGM Resorts international		MGM US	MGM	CMGG1U5	615.943	1	1			1	1	1	1
Forest Oil Corp		FSTUS	FST	C1355400	598.789	1	1	1	1	1	1	1	1
Dean Foods Co		DF US	DF:	CT363784	590.521	1	1	1	1	1	0	0	5
Goodyear Tire & Rubber Co/The			GT	CGT1U5	560,604	1	1	1	1	1	1	1	1
KB Home		KBH US	КВН	CKBH1U5	559,419		1	1	1	1	1	1 1	1
Avis Budget Car Rental LLC / Avis Budget I		11011 00	CAR	CX376680	544,631	1	1	1	1	1	1	1	1
Tenet Healthcare Corp	-	THC US	THC	CTHC1U5	541.306	1	1	1	1	1	1	1	1
Chesapeake Energy Corp			CHK	CCHK1U5	535.84		-	-	it	1	1	1	1
American Axle & Manufacturing Inc	-		AXL	CT370292	514,114	i			d	1	1	1	1
American Axie & Manuscturing inc Neiman Marcus Group Inc/The		NMG/A US	NMG	CNMG1U5	497,103	 	t	 	it	1	it		1
Neiman Marcus Group Inc/The Cooper Tire & Rubber Co	+	CTB US	CTBUS	CCOOP1U5	485.533			1	it	1	1		í†
International Lease Finance Corp	-	0067543Q US		CILFC1U5	479.51	 	1	 	,1	1	0	1	5 †
		RCL US	RCL	CRCL1U5	479,143	 	+	+	1	1	1	d	it
Royal Caribbean Cruises Ltd	-		HCA	CHCA1U5	445.445			·	 	il	it	rt	1
HCA Inc/DE - Pre 2010 IPO	4-		SDSING	CX356791	441,536		-	 	 	1	il i	1	it
SunGard Data Systems Inc	4	UIS US	UIS	CT357681	425,144		1	 	i 	i		it	it
Unisys Corp		ALLY US	ALLY	CGMAC1U5	424,982	1	1	 	it	1	of c	0	5 -
Ally Financial Inc	+-		HTZ	CHTZ1U5	421,172		1	 	·	1	il	d	it-
Hertz Corp/The	+-	SPF US	SPF	CSPF1U5	412.885				·	it	il i	1	1
Standard Pacific Corp	+		cvc	CCVC1U5	401.053			·	·		1	1	-
CSC Holdings LLC	+	AMD US	AMD	CT355268	398,431		 	-		1	il	it	+
Advanced Micro Devices Inc		OLUS	OI	CO11U5	398.256			1		il	1	it	1
Owens-lilinois Inc		16790Z US	URI	CRIITUS	397,155	t	-	·	1	il	1	it	it-
United Rentals North America Inc		WINUS	WIN	CT359313	393,41			 		il -	il	1	it
Windstream Corp			LIZ	CLIZ1U5	390.819			-			ol - c		5 †
Liz Cla borne Inc	1 1	LIZUS	LLC	LOTIE 100	330,618	1	<u> </u>	· L	<u>'1</u>	<u> </u>	·	·	

J.P.Mo

Annex 4: Credit book build-up and RWA actions

The book receives the forward 5 into 1 yr credit spread in IG and rolls down the US HY curve

- CIO opted to receive the forwards on IG series 9 and HY series 10-11 in order to use the liquid tranche markets
- The tranches allowed to create positive convexity in spread volatility and jump to defaults (AMR)
- Each bucket (Itraxx Main, CDX IG, CDX HY) has been beta hedged with its respective on the run index

RWA reduction actions

- The natural volatility and P&L noise of the Forward positions was reduced in 2011 by beta hedging each bucket (Var optimisation)
- The "carry- roll down" of the forward positions was used to finance upside on systemic and idiosyncratic risk with tranche positions. The term structure on equity tranches and indices was the best opportunity in 2011
- With an updated data on detailed RWA scenarios (Last update was in March 2011) a further material RWA reduction is possible at minimum cost for 2012.

The Skew and basis theme : main source of P&L noise 2012 YTD

- CIO sells protection on the S9 long term index when correlation desks-HF-dealers buy protection because this is the only liquid access to protection on risky and well distributed names. CIO would benefit also if those names defaulted...
- The owners of this protection got short squeezed and act to limit the tightening of the S9 series
- The filing of KODAK in US HY did not stop the rally in HY but made our long risks under-perform the market

Annex 4 : Credit book profile P&L summary table as of January 31st 2012

The main P&L driver YTD was the underperformance Beta adjusted of the series 9 forwards

- The largest loss comes from the best performer of the 3 buckets, ie CDX IG9 (implied Loss 150M USD)
- The second loss comes from the US HY position: the HY market outperformed IG while we have a decompression trade (implied loss 100MUSD) and the filing of KODAK generated another 50M USD drawdown
- The Itraxx position is lagging but not materially (40M USD Loss). The interest rate hedge cost another 20MUSD.

2. The main positive P&L contributors are carry and New trade

- □ CIO sold protection in IG on the run series with a bullish view (gain 200M)
- The carry of the book YTD is estimated positive 50MUSD

3. The Skew and basis theme: CIO owns the liquidity and the exit for the protection buyers

- If the names default, the SKEW trades will look to unwind, ie sell protection on IG9 10yr and the will collapse the IG9 forwards (same applies to iTraxx S9 series)
- If the spreads tighten further and the liquidity in the cash market comes, the Skew will tighten and the skew arbs will also look to unwind, ie sell the protection in IG9 10yr. (same applies to iTraxx S9 series)
- In both case, CIO can expect to gain 300-400M protection owners look for a way out.
- Further drawdown is possible as the credit spreads keep squeezing and protection owners in S9 IG indices look to hedge their short risk.

Annex 5: IG9 skew "arb": fair value to index price is 50-70 cts

IG9 5yr CDS 4x1 IG9 10yr	03/02/2012 20/03/2013 02/02/2012	expiry 20/12/2012 20/03/2017 20/12/2017	4.058333 5.966667	0.93% 1.306% 1.22%	1.31%	· ·			
ig9 03/17		20/03/2017	5.2	1.24%		target duration			
FWD ig9		20/12/2017			simul slop	e			
slope 4x1	02/02/2012	20/03/2017	5.202778	12.26791	15.34				
Trading o	ost								—
								atual claps coef	
	loss bid	loss ask	trading cc	T	simul ig9	actual indslope cost	a	ctual slope cost	Q
index	loss bid 7.18%			T 5.202778	-	· ·	14.10%	1.044%	1630

Annex 5: IG9 Skew "arb": Commentary

- The dealers state that the IG9 10yr trades 10-15 bps tight to the single names, among which you find Radian (60% full upfront) MBIA (45% full Upfront) SFI (70% full upfront) RRDonnelley (33%upfront) and sprint (35% upfront). These 5 names weight 25% of the whole loss of the index and an estimated 35-40% of the slope trading cost.
- The high dispersion level of the index (which fair value is around 130-140 bps in any case) creates distortions: as it turns out, if one looks at the skew in IG9 10yr it quotes 65cts-75cts (or 12-15bps index equivalent). If one computes the average running from the components, on gets to 170Bps (for an official quote around 122 on the index hence an apparent 48bps "basis"). But the price quote is in upfront with totally matched coupons: the reason is found in the presence of those 5 names above. Because they could really default any day no one is interesting in the running.
- So I wanted to compute the price in upfront of the basis from the single names. Yet the 5yr CDS matures in March 2017 while the IG9 10yr matures in December 2017. So I need curves and a forward analysis to get to the extended maturity of the IG9 10yr. Here I got (from the mid of the 5yr CDS) that the index should trade at 133 while the index was 121 mid. This is equivalent to 67cts in upfront. Interestingly CSFF and BARCLAYS and BOA send quotes on the ig9 10yr skew like 65-80cts. So I am on track. Now BNP states on and on that the Fair value of the index is like 40 bps away from market price.
- What this suggests if that those dealers offer a free entry ticket to the skew trade ie, they incentivise investors to sell them the skew ie sell protection on single names to buy protection on the index.
- Then I looked at what it would cost to trade a slope or a forward spread like IG9 10yr vs IG9 5yr (maturing in dec2012). I assumed that the IG9 5yr having only 11 months to live cannot be far from the single name equivalent. Now, there is almost no quote on the 1 yr cds except for the riskiest names. I looked then at what is the cost to trade the 5yr alone and the ig9 5yr vs IG9 10yr one for one in single names: the cost for the ig9 10yr alone is 51ct. The cost to trade the forward is 104cts. The index itselfs a such costs 15cts. So, the "skew arb" reflects merely the cost for anyone to neutralize an index exposure with single names. This means that, anyone entering the skew trade at say 65cts is likely to lose money if he tries remove it piece by piece (51 cts in CDS and 15cts in index on perfect exec). He is supe to lose money if one tries to wedge the bake Withganwards.
- Only a spread compression and a dramatic improvement in liquidity would improve the quotes such that the
 skew would be traded out safety. Livet wanted to make sure that the numbers were consistent here.

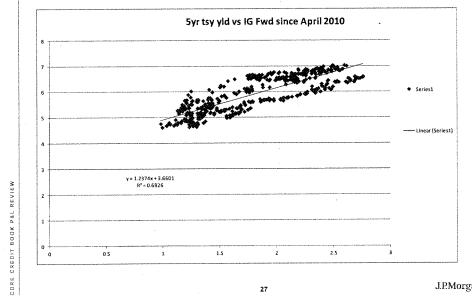
CORE CREDIT BOOK PAL

Annex 5: IG9 skew "arb" : Commentary (continued)

- Now, some players, aware of the liquidity trap that is here, simply buy the index protection on IG9 10yr and sell protection on the on-the-run to leverage a cheap protection on the 5 widest names. Here they lock in say 70cts from ig9 and give up say 25cts (6bps) ie save say 45cts on the index (120 names) for 5 names or approx 10-11% in upfront for a group that has on average 45% full upfront. Given that the recovery can be assumed to be 30% (total loss of 70%) they mostly improve the reward if all those names file: instead of making 25% (70%-45%) they would make 35%, ie 10% more.
- Now, if the market rallies and names do not default altogether the odds are not so good: because they pay this protection and will need to lock a skew trade at one stage. If we just assume there is no default in 6 months, they will likely lose 10pts (CDS will roll down and tighten). More they might have to sell back some CDS (4pts cost to trade the pack). The only cheap way out is to sell back the IG9 10yr. Now, because the index is a high beta one to the on-the-run index, a rally like the one we see is hurting them if only because of the PV effect related to the tightening.
- I need to produce the charts displaying the curves I know. But I will only be able to simulate what the curve should look like. Because only the 5yr really trades. Comes the roll in March, June and September this year, the forward extrapolation will weigh less and less and the chance is that no defaults in the pack will tighten the skew. Here the skew guys will try to exit and pressure the leveraged short guys to exit too. The trade we have is perfect in that regard because we will have the leg all these guys need.

Annex 6: 5yr yield history

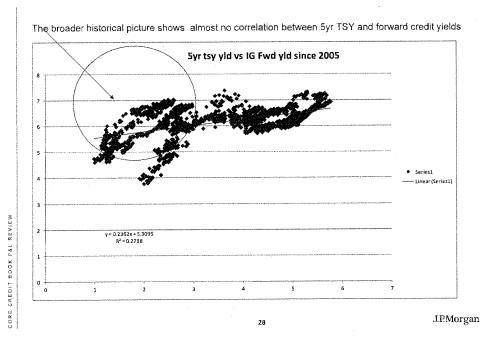
Recently the forward credit yields have tightened with a high beta to the 5yr TSY yield



J.P.Morgan

1633

Annex 6: 5yr yield history



Annex 7: Tactical and Core.. Same views, different implementations

1. Core and Tactical views : monetary policy creates carry incentives but is dangerous game with bonds

- Receive IG forwards vs on the run, roll down HY curve vs on the runs
- # target upside on defaults- maintain positive convexity
- m Maintain a short risk in bond futures for fear the govt market cracks

2. Different implementations : core focus on credit only, tactical uses equity options

- Core source positive gamma from long term equity tranches and index flatteners
- Tactical sources gamma and vega from equity markets
- ™ Core P&L suffers from its size, credit only exposure and bearish bias (no drawdown allowed)
- Tactical P&L suffers from temporary regime shifts but is less liquidity dependent in rallies.

3. Positive and negatives

- Positive for core : core target liquidity traps
- Positive for tactical: tactical is more daily event driven and not dependent on liquidity fights
- Profiles are different :
 - size : Core is downsizing while tactical is stable and much smaller
 - Carry : Core is not meant to carry positively while tactical may within its drawdown limit
 - Strategy: core targets medium-long term disagreements with markets while tactical uses opportunistically exogenous events.

From:	Macris, Achilles O <achilles.o.macris@jpmorgan.com></achilles.o.macris@jpmorgan.com>	
Sent:	Thu, 08 Mar 2012 11:39:34 GMT	
To: Subject	Martin-Artajo, Javier X <javier.x.martin-artajo@jpmorgan.com :: FW: CIO CRM results</javier.x.martin-artajo@jpmorgan.com 	1>
Juoj 555	TWO GO GRATEGUES	
what is goi	ing on here?	
From: Dre	w, Ina	
To: Macris,	Aarch 2012 00:29 , Achilles O; Martin-Artajo, Javier X	- Reducted by the Permanent
	an, Irvin J; Weiland, Peter w: CIO CRM results	Subcommittee on Investigations
Not consist	tant with your take. Let's discuss thurs.	
To: Drew, Sent: Wed	ikatakrishnan, CS Ina; Hogan, John J.; Bacon, Ashley; Goldman, Irvin J; Weiland, Peter I Mar 07 19:12:25 2012 W: CIO CRM results	
lna,		
· There are:	two related issues. The first is the \$3bn increase in CRM RWA between Jar	and Feb. from \$3.1bn to \$6.3bn. The
	that your group believes that the absolute level of CRM RWA between an	
	equires us to explain our models to the satisfaction of your team. I am in L	
•	ske this an urgent matter.	,
short prot	our models, though, we believe that the \$3bn increase in RWA is entirely e ection (long risk) in your portfolio between Jan and Feb. See table below.	explained by a \$33bn notional increase in
position cl	land and your mid-office confirm this \$33bn notional increase in long inde hange results in a change of about \$150mm (a decrease) in 10%CSW. Per o this \$33bn increase in risk is reasonable.	
Also, to be month.	e clear, there has been no model change on our end; the change in RWA fo	or tranches has hardly changed over the
	nd that we need to build your confidence in our models themselves but, g well explained by the build up in your risk positions.	given our models, we believe the increas
I will call y	you tomorrow from London to follow up, but you can reach me at	
Thanks,		
Venkat		
From: Ba	ngia, Anil K	
14.		

Sent: Wednesday, March 07, 2012 06:35 PM To: Venkatakrishnan, CS Subject: CIO CRM results

	Standalor (\$MM)	ne CRM	Net Notional	(SMM)		Position	Count	
	Jan 18th	Feb 22nd	Jan 18th	Feb 22nd	Position	Jan 18th	Feb 22nd	Count
All CIO Positions	3,154	6,301			Increase	25,291	26,927	Increase
Index CDS: All Positions	2,043	6,224				16,833	19,160	
Index CDS: Common Positions	651	646				15817	15817	
Index CDS: Rolloff Positions*	4,037		55,091			1,016		
index CDS: New Positions		9,579		88,618	33,527		3,343	2.327
Index Tranche: All Positions	2,814	2,818			• • • •	8,445	7,758	
Index Tranche: Common Positions	1,972	2,174				7.334	7.334	
Index Tranche: Rolloff Positions*	1,484					1,111		
Index Tranche: New Positions		1,416					424	

^{*} Includes 421 Dummy PCM Trades that were removed from PCM feed (4 CDS/227 Index CDS/190 Tranches)

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1638

Bruno – can you read the below draft and let me know if you agree /w the points – think we need to get lavier on board w/ this before we send out formal limit request.

Frame Septian, Math
To Replan (Math
To Well Septian) Frame To Math
To Welland, Peter
Cer Las, Janes C, Chandria, Sameer X
Subjects RC CID Glood Gred typecal SerV kink breach-COB (12/09/2012
Subjects RC CID Glood Gred typecal SerV kink breach-COB (12/09/2012
See mid-Values) CID has been in breach of its global clober lamps, given primarily by position changes in the transhe book.

The culpur methodology adds the culpur sensitivities of all the credit products, unadjusted for correlations. As IG and NY positions have been added in January (with a hedge ratio of roughly Su) the net culpur prints a positive number even though on a beta adjusted basis the book is rebotely lat.

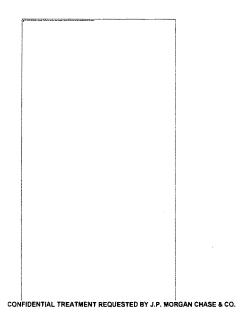
Market Risk is currently reviewing all limits and most likely will remove the colory limit to be replaced with a set of credit-spread-widening (CSW) limits to better reflect the risk of the portfolio in material market moves. Until the new limits are implemented we will propose a one-off to the color, up to 500mm, as we find that the stress and csw measures we muse appropriate indicators of the risk of the portfolio.

As you can see below — the CSBPV measure vs. 10% CSW shows that the book has been reasonably balanced despite the headline byt looking much longer. This is not the case in the 50% CSW measure, as the parallel relative shift of 50pc have the effect of steepening the already upward steping credit curves, hence makes losses look higher when compared with the 10pc measure. This can be seen clearly in comparison of the 50% CSW measure vs. the Large Plattening Select / Credit Criss scenario PBL, which simulates more realistic (i.e. flattening) curve dynamics in the large (rect case in the large flattening select of 1 100mm vs. -10n in the social criss of the 50% strategies in the large flattening select in 100mm vs. -10n in the 50% parallel move.

50% vs LFS:

+0.5 Vs +0.65 Diff \$+0.15bn -18 vs -1.38 DM* \$+0.3bn +1.48 vs +1.88 DM* \$+0.4bn -18 vs +0.18 DM* \$+1.bn

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,	60% parattel shock	vs. Large Fi	attening	Sellaff:															
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•	FON VS LFS:																		
	TX XO	+0.5	45	+0.65	Diff \$+0.15	bri													
	ITX MN	-18	VS.	-1.3B	DM \$-0.3br														
	CDX HY	+1.48	vs	+1.8B															
	CDX IG	-18	VS.	-0.1B	012f \$+1bn														
-	From: Welland, Per																		
	Sent: 15 February 2																		
	Fe: Stephan, Kelth																		
	Se: Lee, Janet X Subject: PW: CIO (22100/2012													
•	HIDJECT: HV: CIO C	wood cress	Spreak	t De A suisc	Dreath- COB	IZ/USF ZULZ													
	ow about this? M	aybe you ca	n edit a	nd add yo	ur graphs If y	u think it wou	ıkî help.												
5	ilnce mkd-January C	IO has been	n in brea	ach of its g	lobal cabpy li	nits, driven pri	imarlly by p	osition chan	ges in the t	ranche boo	ok.								
	he csbpv methodo							d da											
	ne csopy methodo srints a positive nun								rions, as it	and rit p	ostrions na	ve been ac	ided to had	nuary (wil	n a neca	is tatio or	ronginy 5	a) the ne	сстору
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Market Risk is currently renewing all limits and most Riely will remove the calpy limit to be replaced with a set of credit-spread-videolog (CSW) limits to better reflect the risk of the partfolio in material market moves. Until the new limits are implemented we will propose a one-off to the calpy, as we find that the trees and care measures are more appropriate indicators of the risk of the partfolio.

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1643

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Syed Hussen | Market Risk Management & Reporting | Chief Investment Office | J.P. Morgan | 2nd floor, 277 Park Avenue, NY | 212.270.2562; Syed S. Hussen & Phorpen one

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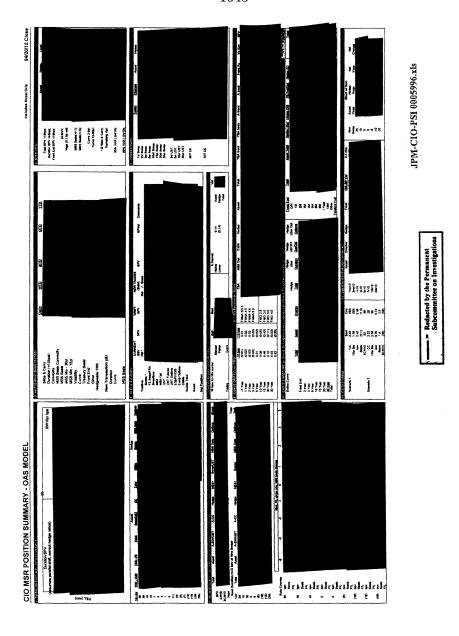
1644

The Firm's 95% 10Q VaR breached its \$125mm limit for the second consecutive day on January 17" 2012.

The breach in VaR for cob January 16" was primarily driven by an overall reduction in diversification benefit across the Firm as well as position changes in both the IB (Global FX - increase is short EUR IR byr; GCG- increase in long oil delta) and CIO (increase in net credit protection position in synthetic credit within CIO EMEA).

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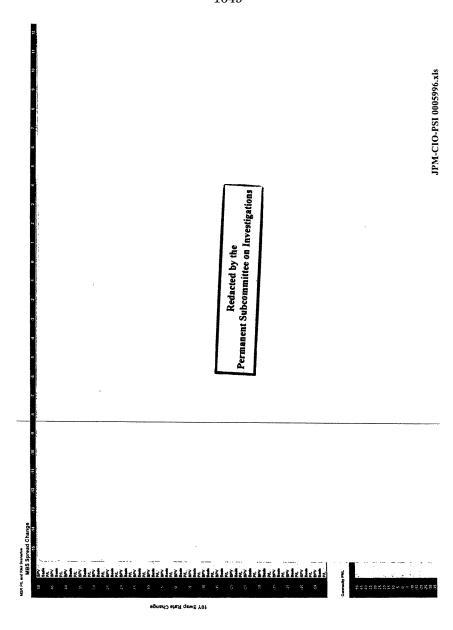


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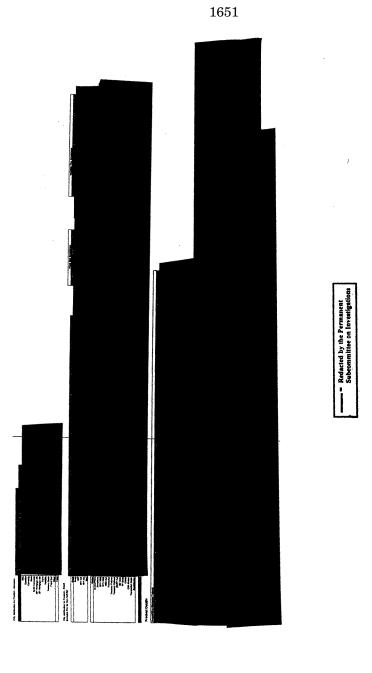
MSR Daily Blotter

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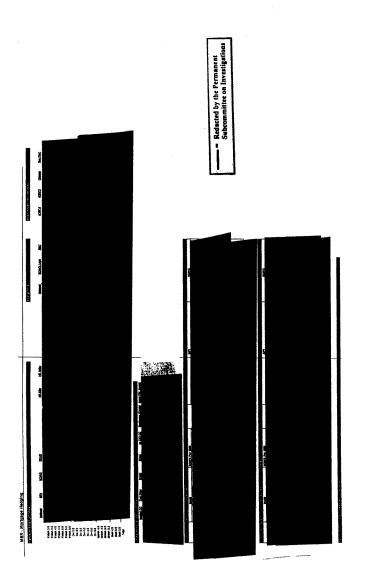
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JPM-CIO-PSI 0005996.xls







Sent: Sat, 12 May 2012 00:21:37 GMT

To: Hogan, John J. <John J. Hogan@jpmorgan.com>; Goldman, Irvin J

<irvin.j.goldman@jpmchase.com>; Bacon, Ashley <Ashley.Bacon@jpmorgan.com>

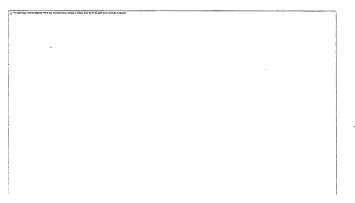
CC: Drew, Ina <Ina.Drew@jpmorgan.com>

Subject: RE: NON IB VaR Bandbreak Summary Report - COB 4/30/2012

VaR bandbreaks can have several causes, and there are two in particular that are contributing to CIO's recent bandbreaks in synthetic credit. Generally speaking when using a VaR at 95 percentile, we should expect to see a band break about once every twenty days, or once per month.

 VaR method. During 2H2011 CIO developed a new VaR methodology ("WestEnd VaR"). It was approved by the Model Review Group (MRG) and implemented on January 26, 2012. Very recently, as MRG was brought in to review models in CIO generally, it was determined that the VaR implemented on January 26 was not implemented as tested and had flaws. On May 10 CIO reverted back to its former VaR method ("BC VaR").

One of the flaws detected in the WestEnd VaR was a damping of volatility caused in the cleansing of time series. As a result the VaRs have been understated. In the chart below we show the band breaks against both the WestEnd VaR and the BC VaR.



We see five bandbreaks from the WestEnd VaR and two bandbreaks from the BC VaR during the March-April reriod.

2) Volatility. Because VaR is calculated based on one year of observed market data, bandbreaks can occur at greater frequency than the statistics would suggest when entering a period of locally higher volatility. The recent drivers of CIO's synthetic credit P/L are relative value exposures including curve, compression (relationship between investment grade and high yield spreads), and basis between on-the-run and off-the-run indexes.

	In looking at the volatility of the relative value relationships we have not seen any systematic increase that would lead to more frequent band breaks, but the move on April 10 was a 45D move in iTraxx curve.							
ı	JS CDX.IG Curve							
	The bill arrange row to believe the time to a body about a contract to the property of the billion to the billi							
į								
	JS Compression							
	The state and process to the last the last terminate and the last terminate and the last terminate and terminate a							
	ndex Basis US; IG9 vs. on-the-run							
	The Control of the Co							

Conclusion: Using the BC VaR rather than the WestEnd VaR we find that the bandbreak frequency drops to expected levels. Also, the largest P/L day shows up on the Tuesday after Easter (Apr 10), the first business day after a four day

weekend in London, so that day compresses four market data days. That also happens to be the weekend that the press began reporting on the JPMorgan credit derivatives position, which we believe contributed to the market moves.

Peter Weiland Tel: +1 212 834 5549 Mob: +1 914 434 8719

From: Hogan, John J.

Sent: Thursday, May 10, 2012 5:58 PM To: Goldman, Irvin J; Bacon, Ashley; Weiland, Peter

Cc: Drew, Ina Subject: Re: NON IB VaR Bandbreak Summary Report - COB 4/30/2012

Irv/Pete.

I'd like a comprehensive response of this by tomorrow please.

John

From: Hogan, John J.
Sent: Thursday, May 10, 2012 10:23 AM
To: Goldman, Irvin J; Bacon, Ashley; Weiland, Peter
Subject: Fw: NON IB VaR Bandbreak Summary Report - COB 4/30/2012

Let's discuss

From: Roder(Regulator), Glenn Sent: Thursday, May 10, 2012 10:20 AM To: Hogan, John J.; Drew, Ina Subject: FW: NON IB VaR Bandbreak Summary Report - COB 4/30/2012

Attached is an example of a recent VaR bandbreak for CIO that I mentioned during our meeting yesterday. I believe bandbreaks for CIO occurred 8 times during April. Please explain the reason for this bandbreak, as well as the reason for the other occurrences during April.

Thank you.

Glenn

From: Market Risk Management - Reporting
Sent: Wednesday, May 02, 2012 5:42 PM
To: Doyle, Robin A.; Surtani, Lavine; Bacon, Ashley; Tocchio, Samantha X; Weiland, Peter; Venkatakrishnan, CS; Man, George KB; Stephan, Keith; Yew, Patricia; GREEN, IAN; Roder(Regulator), Glenn; MRM External Reporting
Cc: Intraspect - VAR Bandbreaks
Subject: NON IB VaR Bandbreak Summary Report - COB 4/30/2012

Please find attached the Non IB VaR Bandbreak Summary Report for cob 4/30/2012:

Downside VaR:

CIO - 218.1mm Loss, 88.6mm VaR, 129.5mm Break

CIO EMEA – 220.0mm Loss, 87.5mm VaR, 132.5mm Break

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JPM-CIO-PSI 0007886

Upside VaR (HedgeVaR): None

Please find attached the Non IB VaR Bandbreak Summary Clean PnL Report for cob 4/30/2012, noting that Clean PnL is currently being provided only by the CIO and PB.

Downside VaR: CIO – 220.0mm Loss, 88.6mm VaR, 131.3mm Break
CIO EMEA – 219.0mm Loss, 87.5mm VaR, 131.5mm Break

Upside VaR (HedgeVaR): None

<<VAR_Band_Break_Summary_Non_IB_20120430-xls.zip>>

Please contact MRM External Reporting team with any questions.

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Sent:	Thu, 08 Mar 2012 17:53:01 GMT						
To:	Drew, Ina <ina. drew@jpmorgan.com="">; Hogan, John J. <john hogan@jpmorgan.com="" j.="">; Venkatakrishnan, CS <cs. venkatakrishnan@jpmorgan.com=""></cs.></john></ina.>						
CC:	Macris, Achilles O <achilles.o.macris@jpmorgan.com>; Weiland, Peter <pre><peter.weiland@jpmchase.com>; Odidman, Irvin J <irvin j.goldman@jpmchase.com="">; Bacon, Ashley <a hre<="" th=""></irvin></peter.weiland@jpmchase.com></pre></achilles.o.macris@jpmorgan.com>						
Subjec	: CIO CRM results						
annier	. CO CAN results						
ina .							
ma,							
i just ha	a meeting with Venkat to agree on the next steps to reconcile our differences regarding the CRM RWA in the following way:						
1 We a							
2. In ord week or	e going to accept current CRM model and its parameters this month and therefore for Q1 and will work first on how does this model behave as it is						
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JPM-CIO-PSI 0008773

I will discuss with Javier and Achilles tomorrow to reconcile. Thank you for prioritizing. From what I understand there is a difference in view on the underlying model - position increase aside.

From: Verkotakrishnan, CS
Tro: Dew, Ins.; Hogan, John J.; Bacon, Ashley; Goldman, Irvin J; Weiland, Peter Sent: Wed Net 07 19:12-25 2012
Subject: Pix: CIO CRM results
Ina,
There are two related issues. The first is the \$3bn increase in CRM RWA between Jan and Feb, from \$3.1bn to \$6.3bn. The second is that your group believes that the absolute level of CRM RWA we calculate was high to begin with in Jan. The second question requires us to explain our models to the satisfaction of your team. I am in London and spoke with Javier today and we will make this an urgent matter.

Based on our models, though, we believe that the \$3bn increase in RWA is entirely explained by a \$33bn notional increase in short protection (long risk) in your portfolio between Jan and Feb, See table below.

Peter Weiland and your mid-office confirm this \$33bn notional increase in long index risk. Further we both agree that this position change results in a change of about \$150bm (a decrease) in 10%CSW. Per our models, a roughly 10% capital charge (\$3bn) on this \$33bn increase in RWA is well explained by the build up in your risk positions.

I will call you temorrow from London to follow up, but you can reach me at Thanks,
Verkat

From: Bangla, Anli K
Sent: Wednesday, March 07, 2012 06:35 PM
To Verkatelenbard, CS
Subject: CO CRM results

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JPM-CIO-PSI 0008774

	Standalone CRM (\$MM)		Net Notional(\$MM)			Position Cours		
	Jan 18th	Feb 22nd	Jan 18th	Feb 22nd	Position	Jan 18th	Feb 22md	Count
All CIO Positions	3,154	6,301			Increase	25,291	26,927	Increese
Index CDS: All Positions	2,043	6,224				16,833	19,160	
Index CDS: Common Positions	651	648				15817	15817	
Index CDS: Rotoff Positions*	4,037		65,097			1,016		
Index CDS: New Positions		2,57		-a.e.			3,343	2,327
Index Tranche, All Positions	2,814	2,818				8,445	7,758	
Index Trancha: Common Positions	1,972	2,174				7,334	7,334	
Index Tranche: Rolloff Positions*	1,484					1,511		
Index Tranche: New Positions		1,418					424	

^{*} Includes 421 Dummy PCM Trades that were removed from PCM feed (4 CDS/227 Index CDS/190 Tranches)

Bates, Paul T < paul.t.bates@jpmchase.com>; Lewis, Phil < phil.lewis@jpmorgan.com>; Weiland, Peter

From: Goldman, Irvin J <irvin.j.goldman@jpmchase.com>

Sent: Mon, 07 May 2012 18:30:01 GMT

To:

<keith.stephan@jpmorgan.com> CC: Bacon, Ashley < Ashley.Bacon@jpmorgan.com> Subject: RE: CIO Credit Collateral differences as of COB Friday 4th This needs to go to CS Venkatakrishnan for the Daily Report From: Bates, Paul T
Sent: Monday, May 07, 2012 2:16 PM
To: Lewis, Phil; Goldman, Irvin J; Weiland, Peter; Enfield, Keith; Hughes, Jason LDN; Grout, Julien G; Stephan, Keith
Subject: CIO Credit Collateral differences as of COB Friday 4th CIO Credit Collateral differences as of COB Friday 4th Total difference between CIO and the counterparties is now \$203mm vs. \$194mm prior day. Largest Counterparty Difference: Morgan Stanley is now \$61mm vs. \$57mm prior day. Largest Instrument Difference: Itraxx MN 509 10Y 22-100 is now \$24mm vs. \$34mm on the prior day. Difference by counterparty:

JPMORGAN CHASE & CO.

Barry L. Zubrow Executive Vice President Corporate and Regulatory Affairs

February 13, 2012

By electronic submission

Department of the Treasury Office of Domestic Finance 1500 Pennsylvania Avenue NW Washington, DC 20520

100 F Street NE
Washington, DC 20549

Office of the Comptroller of the Currency

250 E Street SW Washington, DC 20219

Securities and Exchange Commission

Board of Governors of the Federal Reserve System 20th Street and Constitution Avenue NW Washington, DC 20551

Federal Deposit Insurance Corporation 550 17th Street NW Washington, DC 20429

Re: Comment Letter on the Notice of Proposed Rulemaking Implementing Section 619 of the Dodd-Frank Wall Street Reform and Consumer Protection Act

Ladies and Gentlemen:

JPMorgan Chase & Co. appreciates the opportunity to comment on the joint notice of proposed rulemaking ¹ issued by your agencies to implement section 619 of the Dodd-Frank Wall Street Reform and Consumer Protection Act, also known as the Volcker Rule.

Overview

Our company is affected by the proposed rule in numerous ways. Through JPMorgan Chase Bank, N.A., J.P. Morgan Securities LLC and other affiliates, we engage in market making in a wide range of securities and derivatives; through the various legal entities that comprise J.P. Morgan Asset Management, we offer investment solutions to our clients through funds and other products; and at the corporate level, our Chief Investment Office is responsible for making investments to hedge the structural risks of our balance sheet on a consolidated basis. ²

jPMorgan Chase & Co. 270 Park Avenue, New York, NY 10017-2014 Telephone: 212-270-0593 • Facilmile: 212-270-7320 barry.Lzubrow@jpmchase.com

¹ 76 Fed. Reg. 68846 (November 7, 2011).

 $^{^{2}}$ We will refer to JPMorgan Chase & Co. and all its subsidiaries collectively in this letter as "IPMorgan," or the "Firm."

In each of these areas, we believe that the proposed rule would have serious, adverse effects on our ability to manage our risks and address the needs of our clients, and on market liquidity and economic growth. While the proposed rule would require us to eliminate pure proprietary trading and limit our hedge fund and private equity fund investing, we believe those intended effects will have significantly less impact on the Firm than the indirect and unintended effects on market making, asset-liability management and asset management for customers.

Section 619 does not prohibit most risk taking by banking entities. Risk taking is necessary for us to help American businesses finance and manage economic growth. Rather, the statute by its terms prohibits a particular category of risk taking that its drafters determined was not appropriate for banking entities. That type of risk taking is short-term speculative risk taking, either directly through certain types of proprietary trading or indirectly by means of investing in private equity or hedge funds. Other areas where banking entities take risk - even significant risk, for example, by making loans - are not covered by the statute, and do not need to rely on its exceptions to continue.

We have two core concerns with how the proposed rule has interpreted the statute. First, it has in some areas turned the statute's narrow prohibition into a more general prohibition on risk taking, and put banking entities in the position of having to rely on ambiguous or incomplete exceptions to the proposed rule in order to continue some of their core functions. Thus, the proposed definition of trading account, which is part and parcel of the definition of proprietary trading, would appear to apply to many types of trading and asset-liability management activities beyond just those focused on short-term price movements. The statute clearly focuses on hedge funds and private equity funds, and a study by the Financial Stability Oversight Council awars against the potential impact of a more expansive definition. Nonetheless, the proposed rule broadens the statutory definition to encompass securitization structures, potentially all non-U.S. funds sponsored by or invested in by U.S. banking entities, including the foreign equivalents of U.S. mutual funds, and almost all wholly owned subsidiaries.

Second, the proposed rule appears to take the view that banking entities, their customers, and the economy must pay almost any price in order to ensure absolute certainty that there can never be an instance of prohibited proprietary trading. The proposed rule appears to presume that banking entities will camouflage prohibited proprietary trading to evade the rule, and that extraordinary efforts are necessary to prevent this behavior.

We believe that the statute mandates a very different approach. The statute clearly sets forth Congressional intent as to how it is to be implemented. The statute directs the FSOC to study and make recommendations to the agencies on implementation so as to:

³ "Study & Recommendations on Prohibitions on Proprietary Trading & Certain Relationships with Hedge Funds & Private Equity Funds," Financial Stability Oversight Council (January 2011) (the "FSOC Study").

- promote and enhance the safety and soundness of banking entities;
- minimize the risk that banking entities will engage in unsafe and unsound activities; limit the inappropriate transfer of Federal subsidies from banks to unregulated entities;
- reduce conflicts of interest;
- limit activities that have caused undue risk or loss.4

We believe that all of these policy goals could be addressed by a final rule that imposes dramatically fewer costs to liquidity, market efficiency and safety and soundness than the one proposed. There are numerous other laws established to serve many of the same purposes – everything from margin requirements to Section 23A of the Federal Reserve Act to concentration limits to risk-based deposit insurance premiums. The same goals appear to have motivated these laws, yet none of them have been implemented through an intrusive compliance regime and with a resulting chill on legitimate economic activity.

The concerns we express are not unique to our Firm or even to the banking industry. We have heard them from our clients, including businesses, asset managers, and foreign nations – all of which see the proposed rule as impairing their ability to fund themselves and manage their risks. The agencies are not required by section 619 to impose these costs, and we urge them to revisit the proposed rule with them more firmly in mind.

We acknowledge the serious challenges that the agencies face in implementing the statute. For example, the issues with the proposed restrictions on fund activity derive from a core problem: Congress did not define with any precision what constitutes a "hedge fund" or a "private equity" fund. We believe that the proposed rule makes matters worse by increasing rather than decreasing the scope of the term "covered fund," and by unnecessarily exporting these problems to overseas funds and bank substidiaries. Similarly, as detailed below, distinguishing proprietary trading from market making is difficult, particularly with respect to market making in illiquid instruments. We believe that a prohibition on bright-line proprietary trading, as set forth in the FSOC study, 5 would have been a good solution, and consistent with the statute. However, once the regulators determined that a broader, more quantitative enforcement regime was needed, any such regime would, as a consequence, be necessarily complex, and our comment does not fault the complexity in this part of the rule. Rather, we focus on how certain aspects of the regime are particularly likely to chill legitimate market making and impose needless costs. Finally, in its unduly constrained approach to asset-liability management, the proposed rule may undermine banking entities' safety and soundness.

Section 619(b)(1). The section also provides guidance on accommodation of insurance companies and divestiture of assets that are not relevant here.

⁵ See FSOC Study at pages 27-28.

The Volcker Rule is made far more damaging by the fact that no other country has adopted anything like it. Capital markets are global, and a typical institutional client has relationships with multiple banks, many of which are foreign banks; U.S. financial banking entities, therefore, will suffer competitively from the Volcker Rule. Furthermore, U.S. companies that lack the ability to fund themselves in overseas markets should not be put at a disadvantage to foreign companies that can access markets where the liquidity providers are not subject to the Volcker Rule and, therefore, are more liquid and efficient.

The Firm supports comments on the proposed rule being submitted by the Securities Industry and Financial Markets Association, The Clearing House Association, the American Securitization Forum, the Loan Syndications & Trading Association and the International Swaps and Derivatives Association. Those comments detail numerous issues created by the proposed rule, and how many of its components appear to conflict with the language and purpose of the statute, and impose high costs on banks, their customers, financial markets and the economy as a whole. In this comment letter, we will not replicate all those points but rather focus on some and provide examples from our own experience to highlight major concerns about the proposal.

We do believe that the extraordinary complexity of the proposal, the hundreds of questions asked in the preamble, and the breadth and depth of proposed changes the agencies are likely to receive mean that the next version of the rule should and likely will differ materially from the first. Accordingly, we believe that those parts of the proposed rule that have elicited the most comment, and presumably will have undergone the most change, should be republished for comment to ensure that efforts to fix one problem have not created another. While we recognize that the statute will take effect in July regardless of the status of the rulemaking, we believe that both regulated entities and the agencies have experience implementing statutes without a complex rulemaking to guide them, and could do so in this case. We believe that the FSOC's definition of bright-line proprietary trading could be adapted as the basis for an interim rule with respect to that aspect of the rule. With regard to funds, an interim final rule could identify those types of funds that are clearly traditional hedge funds or private equity funds while seeking further comment on any new definition that expands the definition to estegories of "similar funds."

Ultimately, we believe that the statute is so flawed that it will be impossible to implement in a way that does not impose unacceptable costs on our economy and financial system. Other regulatory and supervisory actions, as well as secular industry reforms – including extraordinarily high capital, liquidity and other requirements related to derivatives and other trading assets; improved underwriting standards; and permanent changes to the securitization landscape – impose more than sufficient restraints on the types of risk taking that are the Volcker rule's focus.

We note that the statute and proposed rule permit proprietary trading in U.S. Government securities, presumably hocause of a belief that trading in those securities benefits their liquidity and reduces the cost to their issuer, the U.S. Government. Foreign nations are now

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seeking a parallel exemption from the rule, citing precisely those reasons and expressing concern about what restrictions on trading will mean for the liquidity and pricing of their securities. U.S. companies are expressing the same concern with respect to their securities, further highlighting the potentially significant cost of the statute.

Those concerns highlight the extraordinary difficulties of proscribing proprietary trading while protecting client-driven and risk-mitigating trading activities. Nevertheless, we do not propose to debate the merits of the underlying statute in this letter. Instead, our comments focus on the potential implications of the proposed rule for our client franchises and risk management activities.

Our letter covers some general comments and then is divided into three main sections:

- First, a discussion that the market-making-related permitted activity is drafted too narrowly, and would deprive markets of valuable liquidity.
- Second, a discussion that the proposed definition of covered fund exceeds the statutory
 mandate by applying its restrictions abroad, and would thereby do unnecessary harm
 to the competitiveness of U.S. firms and investors.
- Third, a discussion that a combination of provisions could impair the ability of banking entities to engage in asset-liability management, including liquidity risk management, and an exemption for asset-liability management is therefore necessary to safeguard adverse effects on safety and soundness.

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I. General Comments

A. Trading Account

The statute defines proprietary trading as "engaging as a principal for the trading account of the banking entity or nonbank financial company supervised by the Board in any transaction to purchase or sell, or otherwise acquire or dispose of, any security, any derivative, any contract of sale of a commodity for fitture delivery, any option on any such security, derivative, or contract, or any other security or financial instrument that the appropriate [regulators] may . . determine. This definition would seem to ban a wide range of risk taking by banking entities. The definition is significantly and necessarily narrowed, however, by its reference to "trading account," which is in turn defined as comprising "any account used for acquiring or taking positions in [covered instruments] . . . principally for the purpose of selling in the near term (or otherwise with the intent to resell in order to profit from short-term price movements)" or other accounts that the agencies may by rule decide to cover.

Thus, the definition of "trading account" is where Congress actually made clear what it meant by proprietary trading. And Congress made clear that it viewed proprietary trading as having in all cases a focus on earning profit from short-term price movements. It thereby distinguished impermissible proprietary trading from longer term investment activity and asset-liability management. The proposed rule defines "trading account" by reference to three separate tests; a purpose test (which tracks the statute and includes a rebuttable presumption that any position held for less than 60 days was taken with short-term trading intent); a market risk capital test (which substantially incorporates the definition of a "trading book" under proposed Basel capital rules); and a status test (if the activity requires registration as a dealer then the status test is fulfilled). If any one of the three tests is satisfied, the particular account will be a trading account (unless one of the three exceptions set forth within the trading account definition applies).

The preamble to the proposed rule indicates that the agencies added the market risk capital test on the assumption that its coverage was effectively the same as the purpose test, and to reinforce consistency between the proposed rule and the market risk capital rules, and to "eliminate the potential for inconsistency or regulatory arbitrage." We believe, however, that the proposed market risk capital test does capture additional types of trading that are not within the purpose test, and types of trading that clearly should be permissible. The status test does as well. Accordingly, we suggest the agencies revert to the statutory definition.

⁶ Section 619(h)(4).

⁷ Section 619(h)(6).

See proposed rule at page 68859.

⁹ If the agencies do wish to proceed with a separate market risk capital test, they would need to reopen this rulemaking in order to resolve what would otherwise appear to be significant procedural issues. Not only has the

B. Supervisory Implementation

The statute creates a supervisory role for five separate regulators. The proposed rule suggests no means by which the supervisory efforts of those agencies should be coordinated. As the statute notes, inconsistent application or implementation of regulations could create competitive advantages and disadvantages among entities affected by its terms. ¹⁰

This jurisdictional ambiguity is not simply an awkward issue for the agencies, but rather, if permitted to continue in the final rule and its implementation, it will also be a significant problem for markets. The proposed rule already vests extraordinary discretion in the regulators, and makes it very difficult for a banking entity to know whether trading will be considered permissible (whether as market making, underwriting, asset-liability management or otherwise) or impermissible as proprietary trading. Interpretations are likely to vary over time, and one examiner at an agency may take a different view from another. Political considerations may change views of what is permissible. A whole additional layer of uncertainty is added, though, if the same trading unit at a given banking entity is subject to interpretation by examiners at a multitude of agencies. A trader at a national bank subsidiary of a bank holding company that registers as a swap dealer faces the prospect of having a vague and politically charged rule interpreted by four different agencies for purposes of his or her trading.

We recommend that before this rule is finalized, the agencies adopt and seek comment on a protocol for supervision and enforcement that ensures that a given banking entity will face one set of rules, and that different banking entities will face the same set of rules. Failure to do so will result in even greater chilling of legitimate trading, and even greater damage to market liquidity, funding for U.S. businesses, and economic activity.

We are less concerned with who makes the rules here than with the consistency of the application of those rules, though we believe that because these restrictions have safety and soundness as their primary focus, the banking regulators would seem to have the most relevant experience as well as having the examination resources.

C. Need for Phased Implementation

Regardless of how the final rule turns out, it will be a shock to the U.S. financial system, as banking entities will need to take extraordinary measures to attempt to implement it, counsel traders on what is permitted and what is not, and establish a cumbersome compliance regime. Both banking entities and regulators will need to learn how as many as seventeen metrics work when used, for the first time, to distinguish government-approved trading from

proposed rule here not provided notice as to how that test would expand the statutory definition, the market risk capital test is currently only a proposed rule, and is subject to change. See proposed rule at page 68859; Risk-Based Capital Guidelines: Market Risk, 76 Fed. Reg. 1890 (January 11, 2011).

¹⁰ See Section 619(b)(2)(B)(ii).

government-prohibited trading. The risk posed to the U.S. economy by a hurried implementation of the Volcker Rule is significant. We encourage the agencies to adopt a gradual approach to implementation of the final rule. In particular:

- The agencies should use the initial conformance period to develop a complete understanding of the range of activities conducted by banking entities that require the assumption of principal risk and how those activities are distinguishable from prohibited proprietary trading. The initial conformance period should be used exclusively to collect and analyze data concerning those activities and bright-line proprietary trading activities and to develop appropriate quantitative tools to test for compliance with the proprietary trading prohibition after the expiration of the initial conformance period.
- The following sentence should be removed from the final rule because it has created
 considerable confusion as to the availability of the initial conformance period for banking
 entities to conform their activities to the statute and appears at odds with the Board's
 Conformance Rule:

The agencies expect a banking entity to fully conform all investments and activities to the requirements of the proposed rule as soon as practicable within the conformance periods . . .

The final rule should require banking entities to use reasonable efforts to begin furnishing
metrics as of the first anniversary of the effective date and state that the provision of such
reports during the initial conformance period is without prejudice to the ability of a firm to
rely on the full initial conformance period with respect to its activities:

The sole recommendation of the recent GAO study on proprietary trading was that regulators should collect and review more comprehensive information on the nature and volume of activities potentially covered by the statute in order to ensure that it is implemented effectively. ¹¹ The initial conformance period is an opportunity for agencies to adopt a heuristic approach not solely with respect to the quantitative measurements in Appendix A to the proposed rule, but with respect to implementation of the statute as a whole. We encourage the agencies to use the initial conformance period for that purpose.

The proposed rule has created considerable confusion concerning the initial conformance period. As the proposed rule notes more than once, the purpose of the initial conformance

¹¹ See GAO Report to Congressional Committees, "Proprietary Trading – Regulators Will Need More Comprehensive Information to Fully Monitor Compliance with New Restrictions When Implemented," July 2011 (the "GAO Study") ("In order to improve their ability to track and effectively implement the new restrictions on proprietary trading and hedge fund and private equity fund investments, we recommend that the Chairperson of FSOC direct the Office of Financial Research, or work with the staffs of the Commodity Futures Trading Commission, FDIC, Federal Reserve, OCC, and SEC, or both, to collect and review more comprehensive information on the nature and volume of activities that could potentially be covered by the act.").

period is to give markets and banking entities an opportunity to adjust to the statute. The purpose of the Board's Conformance Rule, which took effect on April 1, 2011, 12 was to implement the conformance periods. While the proposed rule states that the Board is not proposing any substantive changes to the Board's Conformance Rule, such a substantive change is arguably made by the statement that the agencies expect a firm to fully conform all investments and activities to any final rule as soon as practicable within the conformance periods. No such statement is made or implied in the Board's Conformance Rule. Furthermore, to the extent that the statement implies that a firm may not be permitted to rely on the full initial conformance period, it appears inconsistent with Congressional intent.

Any version of the compliance program outlined in the proposed rule would require a significant systems build-out. We believe that few, if any, banking entities could have completed that build-out by the effective date even if the final rule had been issued in October 2011, as required by the statute. The statement imposes an unrealistic and, given the existence of the initial conformance period, unnecessary burden on banking entities. We agree, however, with the statement in the proposed rule that the metrics can only be usefully identified and employed after a process of substantial public comment, practical experience, and revision. We believe that a full year's worth of data would be sufficient to allow the agencies to refine the suite of metrics.

II. Proprietary Trading and Investment Banking Activities

Regulated banking entities are by far the largest providers of market-making services. The existence of a robust, competitive field of such entities willing to provide liquidity is essential to create secondary market support for investments like corporate and municipal bonds. The statute has created considerable uncertainty about the market-making-related services that these entities can continue to provide. Further, while the statute clearly identifies the promotion of safety and soundness as one of its primary objectives and specifically protects market-making-related activities, the proposed rule appears more heavily focused on the prospect of banking entities hiding prohibited behavior. Consequently, it proposes to operate with a disruptive level of granularity and fails to provide banking entities with a sufficiently clear path to compliance. We believe that, if implemented as drafted, the proposed rule could impair capital formation. Our principal concerns and recommendations concerning the market-making-related aspects of the proposed rule, each of which is described in more detail below, can be summarized as follows:

The final rule should establish a rebuttable presumption that if the metrics required by the
rule demonstrate that a business is a market-making business then the business in question
is in compliance with the final rule.

¹² See Conformance Period for Entities Engaged in Prohibited Proprietary Trading or Private Equity Fund or Hedge Fund Activities, 76 Fed. Reg. 8265 (February 14, 2011).

- The proposed rule regarding market-making should not rely on hard-coded criteria; instead, some of the criteria included in the proposed rule should be moved to an appendix as guidance to banking entities on how to distinguish permitted market-making-related activities from prohibited proprietary trading.
- Metrics should be applied at a less granular level, with longer observation periods, a
 frequency that more closely reflects typical banking operations and more statistically
 appropriate calculation periods. For some metrics, the proposed implementation set out in
 the proposed rule is dramatically more difficult than necessary, and will yield negligibly
 more insight than a less burdensome version.
- While the statute very clearly permits the purchase, sale, acquisition or disposition of
 securities and other instruments in connection with market-making-related activities, the
 proposed rule appears to permit only transactions that are, themselves, market making.
 We believe that this fails to give full effect to Congressional intent with respect to the
 protection of critical aspects of a market maker's activities, such as certain arbitrage
 activities.
- The proposed rule puts unnecessary restrictions on interdealer trading, which is an important component of market making. The agencies should make clear that, whether or not conducted on an organized trading facility or exchange, interdealer trading driven by liquidity needs is market-making-related activity and is permitted. The agencies should clarify that the nature of the trading relationship determines whether an activity is market-making-related, not the characteristics of the parties to the transaction.
- Presently, the proposed rule does not properly accommodate important client-driven structured transactions. The final rule should recognize that these transactions are an important element of a banking entity's role and are related to its market-making activities.
- The proposed rule splits exemptions between the prohibition against proprietary trading and the prohibition against investing in covered funds in a manner that was not intended by the statute. As a result, we would be unable to engage in customer-driven underwriting and market making activity with respect to assets such as collateralized loan obligation equity and certain exchange-traded fund securities because such assets are treated as covered funds under the proposed rule.
- The agencies should not apply the final rule to commodity forward and foreign exchange products that clearly have a commercial, and not strictly financial, purpose.
- The proposed rule's proposed definition of "resident of the United States" would create
 competitive inequalities overseas among U.S. banking entities and should be amended to
 reflect the terms of the SEC's Regulation S so that the term "resident of the United States"
 does not include any agency or branch of a U.S. person located outside the United States

if the agency or branch operates for valid business reasons, is engaged in the business of banking and is subject to substantive banking regulation in the jurisdiction where located.

We have concerns about aspects of the proposed rule other than market-making that we believe would impair the ability of JPMorgan to provide its clients investment banking services. These concerns, all of which, again, we address in greater detail below, can be summarized as follows:

- Similar to our proposed treatment of the criteria for the market-making exemption, the
 proposed rule regarding risk-mitigating hedging should not rely on hard-coded criteria,
 but rather a number of the criteria should be addressed exclusively in an appendix where
 they would provide guidance that the agencies would apply to help distinguish permitted
 risk mitigating hedging activities from prohibited proprietary trading.
- The final rule should clearly permit banking entities to continue to use all risk management tools currently available to them, including scenario hedges. The proposed rule should be revised to make clear that scenario hedges are within the scope of the hedging permitted activity.
- The proposed rule does not clarify the status of intra-group trading activity which firms
 frequently use for a variety of risk management, legal, tax and regulatory reasons and
 therefore leaves unclear whether it is permissible. The final rule should take proper
 account of intra-group transactions by considering the economic effect of series of related
 transactions, not just individual transactions, on a banking entity group as a whole.
- The documentation burden associated with Section __.5(c) of the proposed rule is
 unnecessarily disruptive. It should be applied at a less granular level and should not be
 applied to trading desks that exist to hedge risks assumed by other trading desks.
- The definition of covered fund set out in the proposed rule could cause the disappearance
 of certain securitization activities, resulting in a material reduction in credit for a wide
 range of industrial, commercial and service-sector entities. As drafted, we believe the
 definition exceeds the requirements of the statute and fails to take proper account of the
 FSOC's recommendations and the rule of construction set out in Section 13(g)(2) of the
 statute
- The government obligations permitted activity should be expanded to include derivatives
 referencing government obligations because a failure to do so will inadvertently affect
 liquidity in government obligations themselves. In order to preserve liquidity in the bonds
 issued by other sovereign entities, it should also be expanded to include trading that is
 otherwise permitted by law in the obligations of all foreign governments that are
 comparable in credit quality to the United States.
- The definition of trading account should be limited to a purpose test as required by the statute. The presumption that any account used to acquire or take a covered financial

position that is held for sixty days or less is a trading account position exceeds congressional intent and should be removed from the final rule.

- The agencies should give further consideration to the meaning of the term "loan." At present, it throws into question the treatment of certain market-standard means of transferring the risk associated with loans. We believe that there clearly are circumstances under which debt securities should be considered to be within the phrase "extension of credit" in the definition of loan and that the rule should leave room for the issue to be addressed on a case-by-case basis.
- The exclusion for repurchase agreements should be extended to encompass all transactions that are analogous to extensions of credit and are not based on expected or anticipated movements in asset prices.

A. Market Making

1. The Essence of Market Making

The essence of a market maker's job is to provide liquidity by quoting prices to customers and then to respond intelligently to the risks acquired when customers act on the quoted prices. A single trade will typically expose the market maker to multiple risks, and the successful market maker is one who makes the right choices about which risks to prioritize addressing, in what sequence, and with which instruments. The optimal choices are the ones that minimize the volatility of his or her portfolio while maximizing the amount of bid-offer spread captured over time. Market making thus necessarily involves risk mitigation rather than risk elimination. The proposed rule introduces significant uncertainty into this optimization process and risks diminishing the willingness of market makers to provide liquidity.

Regulated banking entities and broker-dealers are by far the largest providers of market-making-related services. The existence of a robust, competitive field of banking entities willing to provide liquidity is essential to creating secondary market support for investments like corporate and municipal bonds. Without the predictable source of secondary market liquidity that market makers provide, the risks of bond ownership would increase, causing investors to raise borrowing costs to issuers. That, in turn, would seriously impair capital formation.

In essence, the distinction between prohibited proprietary trading and the core capital-raising functions of the U.S. financial markets now rests on the agencies' interpretation of the words "designed," "reasonably expected," and "near term." Given the vital importance of the distinction, the choices that regulators make in implementing the statute are critical. While the proposed rule represents a good faith effort to resolve the uncertainty generated by the statute, its approach to supervision could reduce the willingness of firms to make markets. As we note in the introduction, in its directions to the FSOC, the statute clearly identified the promotion of safety and soundness as one of its primary objectives. At the same time, it

specifically recognized that some market-making-related activities were not in conflict with this objective and should be protected. The proposed rule instead focuses heavily on the possibility of firms "hiding" prohibited behavior or mischaracterizing activities to evade the statute and is insufficiently focused on the safety and soundness of firms and the financial markets more broadly. What follows in this section of the letter is a discussion of the principal issues that we believe should be addressed in order to minimize the adverse effects of the proposal on market-making-related activities.

2. Liquidity Substitution and the Shadow Banking System

A few observers have suggested that, while the statute may reduce the ability of banking entities to provide liquidity, that effect may be offset by an increase in market participation by non-regulated firms. We believe this argument is misplaced for two reasons. First, the statute provides a clear exemption for market-making activities by banking entities rather than directing the agencies to consider alternative providers of that service. Second, and more fundamentally, market realities make it highly unlikely that non-regulated entities would have the incentive or resources to serve as dependable market makers at narrow spreads, particularly in volatile markets when such services are most necessary. Such a suggestion ignores lessons from recent financial crises and greatly underestimates the importance of housing critical financial services within the regulated banking sector.

One important lesson is that procyclical liquidity is not a substitute for through-the-cycle liquidity. We view our market-making business as part of an overall franchise that includes commercial banking, lending and underwriting relationships. High-frequency traders and hedge funds play an important role in financial markets, but their business models do not require the development or maintenance of such relationships. As such, we believe that their willingness and ability to accept risk to support clients during periods of market stress (when, as we note above, a market maker's services are of the greatest value) will naturally be more limited than those of a banking entity.

Market making is optimally located within financial institutions that are subject to close prudential supervision. The minimum capital requirements to which banking entities are subject ensure that, even in stressed markets, they have sufficient capital to participate actively in market making. Also, banking entities typically have access to diversified sources of funding that allow them to assume less liquid and more volatile positions from clients with greater confidence. By contrast, non-regulated financial market participants are typically very thinly capitalized and have limited, if any, access to traditional capital markets. Furthermore, managing the complexity associated with large portfolios of lightly mismatched "leftover" risk over long periods of time and in all market conditions, which is a critical element of a market-maket's role, requires access to capital and risk management infrastructure that is only found in banking entities. As events like the collapse of Long Term Capital Management and others have demonstrated, market events like unexpectedly high margin calls threaten the viability of highly leveraged or lightly capitalized market actors with complex portfolios of offsetting positions.

Also, many non-regulated entities operate a business model that depends on executing a high volume of intra-day transactions and ending the trading day without any risk position at all. Even a small increase in execution uncertainty or operational risk can lead such an entity to exit a market. The "flash crash" of May 6, 2010 clearly demonstrates the destabilizing effect of such contingent liquidity.

We expect that, however it may be implemented, the statute will reduce liquidity. That impact will lead to a widening of bid-offer spreads that will attract non-regulated entities, at least temporarily. But we encourage the agencies to recognize that the business model of non-regulated entities means that any commitment to providing liquidity is likely to prove limited, high in cost, and fickle.

3. The Definition of Trading Account

As noted above, the proposed definition of trading account is broader than the statutory

In a later section, we describe how the proposed market risk capital test would expand the statute to cover asset-liability management functions that should be permissible, and why it should be eliminated. Here we focus on three additional issues: (1) why the registration test should also be eliminated; (2) why the 60-day presumption is counterfactual and should be eliminated; and (3) how, in one way, the proposed rule expands the purpose test unwisely.

Registration Test

The inclusion of the registration test in the final rule would create significant uncertainty about the scope of the proprietary trading prohibition. The test appears to overlap entirely with the purpose test and, as such, is redundant. Further, the final rule will apply globally. In the course of preparing for the implementation of the final rule, it is hecoming clear that, in certain jurisdictions, it is difficult to conclude with certainty whether frequent long-term investing activity gives rise to a local dealer registration requirement. In cases where it does, the registration test would make activity that lacks short-term trading intent subject to the statute's prohibitions. Since that would exceed Congressional intent, the registration test should be removed from the proposed rule completely.

Presumption

Although it is described in the proposed rule as being intended to "simplify" and to provide "greater clarity and guidance," the rebuttable presumption set out in the proposed rule that any covered financial position held for sixty days or less is a trading account position ¹³ (the "sixty-day presumption") is an expansion of the proprietary trading prohibition set out in the statute. Nothing in the statute requires or implies a requirement for such a rebuttable

¹³ See proposed rule Section __.3(b)(2)(ii).

presumption and there should be no such presumption in the final rule. The sixty-day presumption only increases the uncertainty surrounding the proprietary trading prohibition. It is far from clear what evidence would suffice to rebut the presumption. Also, the inclusion of the sixty-day presumption highlights confusing inconsistencies in the agencies' approach to the definition of trading account. In relation to the market risk rules test, when looking for guidance with respect to the phrase "short-term," the proposed rule refers to the FASB ASC Master Glossary definition of "trading" which notes that "near-term" for purposes of classifying trading activities is "generally measured in hours and days rather than months or years." We find that inconsistent with a rebuttable presumption that a position held for two months was acquired with short-term trading intent. The proposed rule itself, at footnote 102, also appears to note the inconsistency.\footnote{10}

Purpose Test

While we generally support reverting to the statutory purpose test as the sole definition of trading account, we are concerned about the statement that a trading account 'would also include a derivative, commodity future, or other position that, regardless of the term of that position, is subject to the exchange of short-term variation margin through which the banking entity intends to benefit from short-term price movements." Decisions about the intervals at which collateral should be taken from counterparties are taken by credit risk managers, not traders. They reflect credit risk appetite, not trading intent. Regularly taking collateral to mitigate the credit risk associated with a financial transaction simply is not an indicator of short-term trading intent, and the statement should be deleted. It should be noted that Title VII of the Dodd-Frank Act will require certain firms to take collateral from their counterparties on a daily basis in respect of swap and security-based swap transactions whether or not they actually want to do so. Since that collateral posting is mandatory, it says nothing at all about intent. If left in the final rule, the statement may cause banking entities to alter otherwise prudent risk management practices to conform to the final rule. That would run contrary to the stated purpose of the statute and constitute a clear case of the cost of a rule outweighing its benefit.

4. The Proposed Rule Should Not Rely on Hard-Coded Criteria

Because of its multiple overlapping parts, the proposed rule does not provide regulated entities a clear path towards compliance. For market making to continue in its current form,

¹⁴ See proposed rule at footnote 102; "See FASB ASC Master Glossary definition of "trading," Although §__3(b)(2)(ii) of the proposed rule includes a rebuttable presumption that an account used to acquire or take certain covered financial positions that are held for 60 days or less is a trading account, the agencies note that U.S. GAAP does not include a presumption that securities sold within 60 days of acquisition were held for the purpose of selling them in the near term."

¹⁵ See proposed rule at page 68858. The purpose test also includes covered financial positions acquired or taken principally for the purpose of benefitting from actual or expected short-term price movements.

as the statute clearly intended, firms should have a way of knowing whether the activities they are conducting will or will not qualify for the exception.

For example, Section $_.4(b)(2)(vi)$ of the proposed rule requires firms to conduct their market making-related activities in a manner consistent with Appendix B to the proposed rule. However, Appendix B provides that consistency with Appendix B is insufficient and also requires compliance with all of Section $_.4(b)$. In places, Appendix B and Section $_.4(b)$ address the same topic, and it is unclear whether compliance with Appendix B also constitutes compliance with the corresponding criterion in Section 4(b). If it does, it is difficult to see why there is a separate criterion in Section $_.4(b)$ at all. If it does not, it is unclear what additional compliance steps are required. Addressing the subject matter of Section $_.4(b)(2)(ii)$, (iii), (iv), (v) and (vii) of the proposed rule only in Appendix B would resolve the confusion that presently exists in the architecture.

The proposed rule proposes to apply seventeen metrics daily at a variety of points in the firm's trading hierarchy. Also, Appendix B to the proposed rule is a multi-page description of the distinctions between permitted market-making-related activities and prohibited proprietary trading that notes frequently how facts and circumstances can cause a genuine market-making business to resemble a proprietary trading business. Because of its use of hard-coded criteria in the proposed rule itself, as the proposed rule is presently constructed, a trading desk that has all of the anatomical properties of a market-making business, ¹⁶ that consistently yields satisfactory results with respect to the preponderance of the seventeen metrics and that operates its business consistent with Appendix B can still be told that its activities are prohibited proprietary trading because, for example, it held itself out on a regular basis when it should have held itself out on a continuous basis. That is clearly the wrong result and would be avoided if the subject matter of Section __4(b)(2)(ii), (iii), (iv), (v) and (vii) of the proposed rule were addressed only in Appendix B. That would allow the agencies greater flexibility as it would ensure that "facts and circumstances" can be factored into regulatory decisions. In a rule intended to address a variety of products and all market conditions, that flexibility is essential to proper supervision.

5. The Proposed Rule Goes beyond the Statute to Proscribe "Market-Making Related" Activities

The statute very clearly permits the purchase, sale, acquisition or disposition of securities and other instruments in connection with market-making-related activities. As the agencies are aware, the word "related" was specifically added during the House-Senate conference process. In places, however, the proposed rule appears to read this word out of the statute. For example, the proposed rule states:

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¹⁶ For example, the business employs sales staff that cover clients, issues research to clients, delivers pricing runs to clients and is considered by the Street and by clients to be a market-making business.

a trading desk or other organizational unit of a banking entity that is engaged wholly or principally in arbitrage trading with non-customers would not meet the terms of the proposed rule's market making exemption.¹⁷

While some types of arbitrage trading might property be considered speculative, others clearly relate to customer needs and should be seen as a part of a firm's market-making-related activities. Corporate bond exchange-traded funds provide a useful example of the latter. Exchange-traded funds are a low-cost means by which investors, often individuals, are able to participate efficiently in markets that would otherwise be closed to them. For the product to work, two conditions must be met: the underlying bonds must be tradable and liquid, and market participants must be willing to execute arbitrage transactions between the exchange-traded fund and the underlying bonds. The corporate bond exchange-traded fund market could not continue to function as it does without that arbitrage activity: supply and demand forces would cause the exchange-traded fund to diverge from fair value and distort its performance. The liquidity on the underlying bonds is provided by corporate bond market makers. For an exchange-traded fund market-maker, the ability to optimize various sources of liquidity, including the underlying corporate bond market, is an important factor in the efficiency that drives the exchange-traded fund's low friction costs. But the exchange-traded fund market-maker's portfolio construct might at times have the appearance of an arbitrage strategy. Often, as a matter of organizational efficiency, firms will restrict that strategy to certain specific individual traders within the market-making organization, who may sometimes be referred to as a "desk." The proposed rule apparently would not allow such a desk to rely on the market-making-related exception. We believe that this is inconsistent with the statute and unwise as a matter of policy.

Also, in order to minimize risk management costs, firms commonly organize their marketmaking activities so that risks delivered to client-facing desks are aggregated and passed by means of internal transactions to a single utility desk. The aggregated client-delivered risk is then hedged in aggregate and, optically, can bear some of the characteristics of arbitrage. Such activity is a direct function of a firm's market-making operations, and we encourage the agencies to recognize it as permitted market-making-related behavior.

 The Proposed Rule Creates Considerable Doubt about the Status of Interdealer Trading Activity

Interdealer trading is a vital component of market making, as permitted under the statute. Accordingly, we suggest the agencies clarify that the nature of the trading relationship determines whether an activity is market-making-related, not the characteristics of the parties to the transaction.

In its discussion of the Customer-Facing Trade Ratio, the proposed rule notes that:

¹⁷ See proposed rule at page 68871.

A broker-dealer, swap dealer, or security-based swap dealer, any other entity engaged in market making-related activities, or any affiliate thereof may be considered a customer of the trading unit for these purposes if the covered banking entity treats that entity as a customer...¹⁸

We regard that comment as a recognition of the important fact that there is a significant amount of interdealer trading activity where one dealer is acting as the customer of another. We also agree with the direction of the following comment made in the proposed rule:

activities by...a person that primarily takes liquidity on an organized trading facility or exchange, rather than provides liquidity, would not qualify for the market-making exemption under the proposed rule...¹⁹

Whether or not conducted on an organized trading facility or exchange, trading activity that has as its primary driver the provision of liquidity is market-making-related activity and should be permitted. We see no distinction in this regard between anonymous exchange-traded transactions and over-the-counter transactions where the identity of the counterparties is disclosed.

A particularly vivid example of why the agencies should clarify the status of interdealer activity is the direct market in currency options. The market is called "direct" because it is entirely bilateral and is neither intermediated by inter-dealer brokers nor executed on any organized trading facility. The currency options market is a global, 24-hour, 6-day-per-week market. Following the decades-old conventions of the foreign exchange spot market, firms provide two-way prices to each other in that market on demand. This informal agreement to quote two-sided prices to other market makers is an essential feature of being a market maker in the global currency options market. When one market maker provides pricing to another in that market, it considers the market maker to which it provides the pricing to be a customer. Access to that interdealer liquidity is essential to allow firms to develop the risk inventory needed to satisfy demand in their market-making franchises and to manage risks delivered to them by their non-dealer customers. At present, there is considerable confusion in the industry about whether the agencies view this activity as prohibited. We strongly recommend that the agencies clear up that confusion in the final rule.

7. The Proposed Rule Undervalues the Metrics

The proposed rule notes consistently that the metrics are designed for "identifying trading activity that warrants additional scrutiny." They are equally well designed for identifying trading activity that warrants no further scrutiny. While we agree that no single metric can serve as a dispositive tool for identifying probibited proprietary trading, we submit that if a business routinely passes over a dozen metric tests designed to determine whether it is a

¹⁸ Proposed rule at page 68960.

¹⁹ Proposed rule at page 68872.

market-making business, the need for further inquiry into the nature of the business is significantly reduced and may be superfluous. The final rule should provide that where a firm has established an internal compliance program with respect to a business and the metrics that are run by the firm demonstrate that the business is a market-making business, the business should benefit from a rebuttable presumption that it is in compliance with the final rule.

8. The Metrics Require Changes to Reduce Impact on Liquidity and Decrease Implementation Burden

Level of Reporting. The proposed rule requires banking entities to calculate and report metrics at points in the organizational hierarchy down to the trading desk level. The choice of level at which to apply metrics is an extremely important one: while too high a level may cause smoothing of results, too low a level will routinely generate false positives. The opportunity to explain the facts and circumstances surrounding false positive mitigates the harm, but not enough: knowing that individual decisions will require explanation will seriously chill desirable capital commitment by market makers. That chilling effect will be magnified at the worst possible times since the incidence of false positives will increase in distressed market conditions, when a market maker's services are of the greatest value.

The proposed rule could safely be less granular and still be effective. At JPMorgan, the most senior level of trading risk management is referred to as the Investment Bank Risk Committee, or IBRC, and meets weekly to discuss the Firm's trading risks. The heads of all the trading businesses are represented at these meetings, and positions are discussed at a level of granularity that appropriately reflects the materiality of the risk. We believe that the metrics should not be applied below the level at which data is routinely reviewed by senior management at these IBRC meetings. For example, at IPMorgan, the trading business level would be Credit Trading or Institutional Equity as opposed to a sub-level within each business – e.g., North American Credit Trading.

Frequency of Reporting. The proposed rule proposes monthly reporting of metrics. While the agencies should retain the ability to request more frequent reporting on an exception basis and firms should be required to investigate anomalies as they arise, the routine reporting frequency should be quarterly. Monthly reporting is too frequent because of the complexity of the process that surrounds the generation of regulatory reports. Before such reports are submitted to regulators, they are subjected to trader, compliance, risk-manager and senior management reviews. That process is time consuming and, as a result, such reports are generally produced only on a quarterly basis.

Calculation periods. Similarly, thirty-day and sixty-day calculation periods are too short for some of the proposed measurements. A thirty-day calculation period will typically capture only 22 trading days. For statistical calculations, a sample set of 22 data points is just too small and creates an unnecessarily high degree of measurement uncertainty. To maximize their usefulness, the calculation period should be one calendar quarter (typically 63 trading days) for each of the following proposed quantitative measurements:

- Volatility of Comprehensive Profit and Loss and Volatility of Portfolio Profit and Loss;
- Comprehensive Profit and Loss to Volatility Ratio and Portfolio Profit and Loss to Volatility Ratio;
- · Skewness of Portfolio Profit and Loss and Kurtosis of Portfolio Profit and Loss; and
- Spread Profit and Loss.

Utility of the Metrics. Some of the metrics are completely new; they are not currently in widespread use in the industry. Two metrics in this category are Inventory Risk Turnover and Spread Profit and Loss. While each is potentially useful in concept, the proposed implementation set out in the proposed rule is dramatically more difficult than necessary and will yield negligibly more insight than a less burdensome version of the test.

The Inventory Risk Turnover metric should focus only on the principal measure of directional risk for the subject portfolio. One of the core functions of a market-maker is to warehouse certain secondary risks, which is essential to the proper functioning of most markets. The purpose of an inventory turnover measure is to compare the amount of risk that a market maker retains to the size of the market marker's client franchise. A typical securities trading desk will trade many securities, and many desks will trade both derivatives and securities. The proposed rule's proposal to require firms to compute risk turnover in relation to all of the regularly produced risk sensitivities of all instruments within the relevant portfolio would require risk turnover to be calculated for ten or more risk sensitivities in some businesses and its excessive.

We believe that focusing only on the principal measure of directional risk strikes the right balance between practicality and relevance. Any concern that focusing only on that principal measure will encourage the warehousing of outsize positions in other risks should be mitigated by the application of other measurements (especially profit and loss volatility metrics and the Comprehensive Profit and Loss Attribution metric) that should effectively identify other risk concentrations. In addition, the more exotic the risk, the greater the difference in measurement methodology across firms. Requiring inventory risk turnover to be measured against more than the principal measure of directional risk will make it far more challenging for the agencies to manage horizontal reviews and, as such, to maintain a level playing field among firms.

With respect to the Spread Profit and Loss metric, the End of Day Spread Proxy is sufficient and should be used for all asset classes. Using the prevailing bid-ask or similar spread at the time the purchase or sale is completed is far more onerous than is necessary to distinguish position-related revenue from spread-related revenue. It will yield meaningless results in institutional markets where clients have significant bargaining power (which describes most markets for the institutions most affected by the statute) because, in those markets, it would be

perfectly reasonable for a firm to record the most recently traded price as the midmarket price. In that situation, the Spread Profit and Loss would be zero, producing a metric "failure" in all cases.

The End of Day Spread Proxy relies on processes that firms generally already have in place in response to industry-wide demand for accurate end-of-day valuations. It is much more objective than the proposed approach because it is subject to far greater scrutiny by third parties. Correctly, the proposed rule notes the need for market makers to manage retained principal risk effectively. Balancing risk in order to be able to quote to clients is an essential element of a trading business that is designed to satisfy near term customer demand. For the most liquid asset classes, the proposed approach will cause market makers who successfully manage intra-day fluctuations in client demand to appear to be trading with "a simple expectation of future price appreciation," leading to defensive pricing behavior and a reduction in market liquidity. While it could be argued that our proposed approach would allow a proprietary trading desk with an intra-day trading mandate to appear to have only spread-related revenue. I such business would fail a simple review of its mandate and setup and would almost certainly produce profit and loss volatility numbers inconsistent with a market-making business.

With respect to the Customer-Facing Trade Ratio, we believe that the metric should not be based on trade counting; instead it should be a risk-based normalization, similar to the Inventory Risk Turnover metric. The proposed approach introduces the possibility of nonsensical results. For example, a corporate customer might execute a multi-billion dollar hedge of its foreign currency exposure by buying a foreign currency put option in the FX Options market. The market-maker may, among other approaches, "call out" in the interbank market and exit the position in much smaller pieces. The result would be to have one customer trade and, perhaps, ten or more dealer trades, simply because each of the interbank trades is smaller.

Further, as the agencies acknowledge, ²² Stress VaR is not in regular use for day-to-day risk management. For Basel purposes, Stress VaR will be calculated only at the highest level of the firm, and computing it at a more granular level creates a significant implementation burden as well as problems in terms of comparability and relevance of results. More importantly, as a measure that conveys no information about intent or proportionality between the risk assumed and client demands, it provides little relevant information about a banking

Nee proposed rule at page 68871.

If a proprietary trading business had an intra-day trading mandate it would always end the trading day with a flat position. If the mid-market value of its trades were only determined at end of day then all of the revenue would go into the spread category, creating the appearance of compliance even though the activity is clearly prohibited.

²² See proposed rule at 68887.

entity's compliance with the statute. We therefore believe that Stress VaR should be removed from the list of required metrics.

Inapplicability to Asset-Liability Management

The metrics proposed would not, in any form, be useful in distinguishing valid asset-liability management from proprietary trading. We discuss this in detail below, under "Asset-Liability Management."

9. Solution-Driven Transactions

We are concerned that, generally, the proposed rule does not appear to acknowledge the more structured, client-driven transactions that banking entities routinely enter into with their client base. Such transactions (which are often referred to as "solution" transactions) are increasingly driven by client financing needs, but may also be driven by risk management considerations. For example, a transaction may be designed to provide a predictable source of funding for a client's regulatory capital needs or to provide structured protection to a client its loan or securities portfolios. Our goal is either to give the client indirect access to cheaper sources of funding or assume risks from the client that we then distribute to the market. Typically, the client-facing transaction is relatively structured and we hedge or offset the risk assumed using a combination of transactions executed through our market-making desks. This activity is related to our market-making franchises and therefore permissible under the statute.

Banking entities are by far the largest provider of these solution-driven products. We are concerned that the trading on behalf of customers permitted activity is not sufficiently broad to permit this activity and that a narrow interpretation of the requirement to hold oneself out "on a regular or continuous basis" would preclude reliance on the market-making permitted activity in connection with these client-driven transactions. We suggest the agencies make clear in the final rule that, for this purpose, a banking entity meets a requirement to hold itself out if it markets structured transactions to its client base and stands ready to enter into such transactions with them even though transactions may occur on a relatively infrequent basis.

B. Risk-Mitigating Hedging Permitted Activity

We discuss in detail below the application of the exception for risk-mitigating hedging to JPMorgan's corporate asset-liability management function. It is within that function, rather than within our investment bank, that we hedge the structural risks of the company's balance sheet. In this section, we discuss how the risk-mitigating hedging exception applies to hedging within our investment bank. As the proposed rule acknowledges, hedging is a vital part of market making, because it allows market makers to manage the principal risk they must incur to perform the function. In several ways, the proposed rule would make bedging more difficult.

1. The Proposed Rule Should Not Rely on Hard-Coded Criteria

The criteria in Section ____.5(b) of the proposed rule should be factors to be considered when distinguishing prohibited proprietary trading from hedging, not tests that must be satisfied in every case in order to qualify for the hedging permitted activity. For example, we are concerned that even if all other requirements of the bedging section are satisfied, a transaction is not a hedge unless it is contemplated by the written policies established by the firm pursuant to subpart D. That limits the ability of the firm to hedge unanticipated risks quickly.

The hedging permitted activity set out in the proposed rule is much narrower than the discussion of the hedging permitted activity in the preamble. For example, the preamble states that anticipatory hedging is permitted in certain circumstances but the text of the proposed rule itself makes no reference to anticipatory hedging. ²³ The mismatch between the discussion in the preamble and the hard-coded criteria in the proposed rule generates considerable uncertainty. Removing hard-coded criteria from the proposed rule would belp to resolve that uncertainty.

If the criteria in Section __.5(b) in the hedging section of the proposed rule were removed and the subject matter of those provisions were addressed instead in an appendix to the proposed rule analogous to Appendix B, the agencies would be able to take facts and circumstances into account throughout the supervisory process. As we note above, we believe that is essential to the proper supervision of complex financial markets.

2. The Importance of Scenario Hedging

While most risk management is designed to address reasonably foreseeable risks, risk managers also routinely consider so-called "tail risks;" remote, but potentially devastating movements in a portfolio of assets that can follow events like the collapse of a major financial institution or the insolvency of a highly leveraged sovereign entity. As the agencies are aware, banking entities routinely stress test their balance sheets against such outlying scenarios and many banking entities are currently engaged in stress tests concerning macroeconomic and financial market scenarios mandated by the Federal Reserve to ensure that institutions bave robust, forward-looking capital planning processes. ²⁴ Typically, scenario hedges are not dictated by individual trading desks. ²⁵ In fact, it is common for

²³ See page 68875 of the proposed rule and contrast it with Section ___.5(b)(2)(ii) of the proposed rule.

²⁴ See Federal Reserve press release November 22, 2011 at http://www.federalreserve.gov/newsevents/press/bcreg/20111122a.htm.

²⁵ Since most scenario hedges are established at higher levels of organization within banking entities, they would be subject to the additional documentation requirements set out in Section __5(e) of the proposed rule. Also, scenario hedges have a clearly identifiable risk and profit-and-loss profile. They should be identifiable using Value-at-Risk and Stress VaR and VaR Exceedance and revenue metrics. Consequently, supervisors will have ample opportunity to require banking entities to explain the facts and circumstances surrounding these trades.

individual trading desks to be unaware that such hedges have been established because awareness might change behavior in a manner that undermines the value of the hedge.

A position should qualify as a hedge if it is reasonably correlated to a specific risk or the banking entity can reasonably demonstrate through its stress testing program that the position reduces its tail risks. At inception, the correlation between a chosen hedge and a given tail risk may be relatively loose. Section __5(b)(2)(iii) of the proposed rule requires that the hedging transaction be "reasonably correlated, based upon the facts and circumstances of the underlying and hedging positions and the risks and liquidity of those positions, to the risk or risks the purchase or sale is intended to hedge or otherwise mitigate." We believe that this requirement may be too narrow to permit scenario hedging and, as such, could deprive banking entities of an important risk management tool. 26

3. Intra-group activity

Generally, the proposed rule does not adequately discuss intra-group trading activity and therefore leaves unclear whether it is permissible. For a variety of risk management, legal, tax and regulatory reasons, banking entities frequently use booking vehicles that do not face external counterparties except to support the trading or hedging activities of other group members. For example, a hedge fund derivative transaction entered into by a U.S. banking entity with a non-U.S. customer may be hedged by means of an offsetting transaction between the banking entity and a non-U.S. affiliate of the banking entity that buys hedge fund shares as its hedge for the offsetting transaction. That combination of transactions provides the group, as a whole, with an efficient hedge to the customer-facing transaction. The proposed rule is drafted as though the same entity always executes both the risk-generating transaction and the hedge. The final rule should clearly allow banking entities to consider exempt groups of transactions entered into by different group members if they are connected and in aggregate act as a hedge for specific risks faced by one or more members of the group. ²⁷

4. Documentation of Macro Hedges

The proposed rule appears to underestimate the frequency with which hedges are established by a supervisor or risk manager responsible for more than one trading desk. We believe that the requirement for contemporaneous documentation should apply only to hedges executed one level or higher above the level described in the example contained in footnote 161 in the proposed rule. That is, the documentation requirement should apply only to hedges that are

²⁶ We also address these issues in the Asset-Liability Management section of this letter below.

²⁷ Another example of the proposed rule's failure to recognize intra-group activity appears in relation to the market-making permitted activity. In many cases, mere booking entities are able to rely on intra-group exemptions under local law and do not carry dealer registrations. Since the proposed rule makes such registration an absolute condition, it would be impossible for such entities to rely on the market making exemption.

established by the manager of a person responsible for more than one desk or by more senior management. No additional documentation of a hedge transaction should be required at or below the level described in footnote 161 as long as the hedge in question is contemplated by the hedging policies and procedures maintained by the relevant business in compliance with Subpart D. Otherwise, the administrative burden associated with the proposed rule would be significant to the point of interrupting normal trading operations. That, in turn, may cause banking entities to become exposed to greater risks. It should also be noted that these hedges will be subject to testing using metrics and, as such, will be subject to review by the agencies.

The mandate of certain desks is to hedge the risks generated by other desks. Such risk management desks should not be subject to the documentation requirements with respect to their trading activity at all. We believe that it is incorrect to consider such desks to be "at a level of organization that is different than the level of organization establishing... the [risk generating transaction]." The two typically sit at the same level within an organization and typically have separate management reporting lines. If such desks were subject to the documentation requirements, their daily trading operations would be materially affected because they would be required to separately document the purpose of every trade executed. The final rule should make clear that such desks are not subject to the documentation requirements.

C. The Extraterritorial Application of the Volcker Rule Would Create Competitive Disadvantages among U.S. Firms

The definition of "resident of the United States" contained in the proposed rule creates competitive inequalities among U.S. banking entities that operate overseas. As drafted, the proposed rule places U.S. banks that operate overseas through branches at a disadvantage to U.S. banking entities that operate overseas through subsidiaries. To avoid these inequalities, the definition of "resident of the United States" should be conformed to the definition of U.S. person contained in the SEC's Regulation S.

Many U.S. banks conduct activities in covered financial positions from their overseas branches. Such activities are typically heavily regulated locally. For example, the London branch of JPMorgan Chase Bank, N.A. is a "resident of the United States." It is regulated by the UK Financial Services Authority. However, a long-established U.K. subsidiary of a U.S. firm is not captured by any clause of the "resident of the United States" definition. As such, in their dealings with a branch, overseas entities must take into account the possible application of the Volcker Rule to their transactions, but, in their dealings with a subsidiary, they do not. Consequently, overseas entities are more likely to want to deal with subsidiaries than branches. We see no policy justification for the competitive disadvantage at which JPMorgan Chase Bank, N.A. would be placed – certainly no justification relating to the subject of the statute.

The inclusion of foreign branches of U.S. banks within the definition of "resident of the United States" in combination with the proposed rule's definition of derivative, may adversely

impact trading in U.S. Government debt obligations by foreign investors in a manner that clearly was not intended by Congress. Although the Treasury Secretary has proposed to exclude foreign exchange swaps and forwards from regulation as swaps for most purposes the proposed rule proposes to include such products within the definition of derivative. Foreign exchange swaps and forwards are the means by which foreign investors convert local currencies into U.S. dollars so that they can purchase U.S. Government debt obligations. As such, liquidity in those products affects liquidity in U.S. Government debt obligations. Those products are very often executed with overseas branches of U.S. banks. If foreign exchange swaps and forwards remain covered financial products under the final rule and those overseas branches of U.S. banks are residents of the United States, then foreign investors will have to assess the proposed rule's implications when they trade in those products with such local branches. That, we believe, may reduce liquidity in those products and that, in turn, may reduce liquidity in those products and that, in turn, may

The agencies note that the definition of "resident of the United States" in the proposed rule is similar but not identical to the definition of U.S. person for purposes of the SEC's Regulation S. As it relates to bank branches, the definition should be identical. The full provisions of the U.S. person definition of Regulation S should be added to the proposed rule so that the term resident of the United States does not include any agency or branch of a U.S. person located outside the United States if:

- (i) the agency or branch operates for valid business reasons; and
- the agency or branch is engaged in the business of banking and is subject to substantive banking regulation in the jurisdiction where located.

D. Government Obligations Permitted Activity

We refer the agencies to the letter dated February 10, 2012 submitted by JPMorgan, Wells Fargo Bank, N.A., Deutsche Bank AG, New York Branch, RBC Capital Markets, LLC and Scoic & Générale, New York Branch, in which we convey our concerns about the impact of the proposed rule on the market for municipal securities that do not fall within the scope of government obligations permitted activity and the impact of the proposed rule on the tender option bond markets. We believe that the government obligations permitted activity is also too narrow in certain other key respects. Our other principal concerns and recommendations can be summarized as follows:

 The permitted activity should be expanded to include derivatives referencing government obligations.

³⁸ See Determination of Foreign Exchange Swaps and Foreign Exchange Forwards Under the Commodity Exchange Act, 76 Fed. Reg. 25774 (May 5, 2011).

The government obligations permitted activity should be expanded to include trading that
is otherwise permitted by law in the obligations of all foreign governments that are
comparable in credit quality to the United States.

Presently, the government obligations permitted activity addresses only direct holdings of government obligations. As a practical matter, it is rare for trading desks to trade only a cash instrument; trading desks that trade in government obligations routinely trade also in futures, options and swaps referencing government obligations. Subjecting trading in those instruments to the prohibitions of the statute could limit the ability of banking entities to position themselves efficiently and to hedge government obligations. That, in turn, would reduce trading in the government obligations themselves and, therefore, undermine Congressional intent with respect to the government obligations permitted activity. Since trading in futures, options and swaps on government obligations is essential to trading in the government obligations themselves, we believe that the agencies should exercise discretion under 13(d)(1)(I) of the statute to complete the government obligations permitted activity by extending it to such instruments.

As noted above, we share the concerns of certain foreign governments that the proposed rule would reduce liquidity in non-U.S. government bonds. ³⁹ We believe that, as a matter of comity and in order to ensure that liquidity in foreign government securities is maintained, the government obligations permitted activity should be expanded to encompass the debt of all foreign governments that have a credit quality comparable to the U.S. At a minimum, the agencies should make clear that all of a firm's activities that are necessary or reasonably incidental to its acting as a primary dealer in a foreign government's debt securities are protected by the market-making-related permitted activity. Such activities may require a firm to assume positions in such debt securities even in circumstances where near-term demand is entirely unpredictable.

E. Commodity Forwards Should Not be Included in the Final Rule.

The statute does not expressly encompass forward contracts in nonfinancial commodities ("Commodity Forwards"). Certain agencies have noted that Commodity Forwards are commercial merchandising transactions, whose primary purpose is to transfer ownership of a commodity. ³⁰ The Department of the Treasury has noted that they are more similar to funding instruments, such as repurchase agreements. ³¹ Although Commodity Forwards are

²⁹ See Letter from Chancellor of the Exchequer, George Osborne, to Chairman Bernanke, dated January 23, 2012 ("I am concerned that the regulations could have a significant adverse impact on sovereign debt markets...").

¹⁰ See joint SEC and CFTC release "Further Definition of Swap, Security-Based Swap, and Security-Based Swap Agreement; Mixed Swaps, Security-Based Swap Agreement Recordkeeping" (76 Fed. Reg. No. 99, May 23, 2011).

³¹ Sec Determination of Foreign Exchange Swaps and Foreign Exchange Forwards Under the Commodity Exchange Act, 76 Fed. Reg. 25774 (May 5, 2011).

excluded from the definitions of the terms "swap" and "security-based swap" in the derivatives-related provision of the Dodd-Frank Act, 32 the agencies propose to exercise their discretion to expand the statute to encompass those instruments by including them within the Title VI definition of a "derivative." We believe that there is ample evidence that commercial agreements such as Commodity Forwards should not be considered "financial instruments" as that term is used in Section (h)(4) of the statute and, as such, should not be made subject to the restrictions of the statute. However it may be implemented, the statute will, to some extent, impair liquidity in every asset class that it touches. This liquidity concern is made particularly acute by the lack of certainty currently surrounding the meaning of the term "spot" in relation to commodities where standard delivery periods can extend to weeks and perhaps even months. As we discuss further below, we have very similar concerns and comments with respect to the proposal to extend the reach of the statute to foreign exchange forwards and foreign exchange swaps. We strongly encourage the agencies to refrain from extending the statute to asset classes that are clearly commercial, as opposed to strictly financial, in nature.

F.

While we support the exclusion of loans from the proprietary trading prohibition and the other provisions of the proposed rule directed at protecting the loan markets, we believe that the proposed rule does not go far enough in certain respects. Our principal concerns can be summarized as follows:

- . The final rule should make clear that the primary means of transferring interests in loans are not within the scope of the rule.
- We believe that there clearly are circumstances under which debt securities should be considered to be within the phrase "extension of credit" in the definition of loan and that the rule should leave room for the issue to be addressed on a case-by-case basis.
- The final rule should make clear that covered financial positions that are acquired by a firm as a result of a default under a debt previously contracted in good faith are not subject to the proprietary trading prohibition.
- The loan securitization exemption is too narrow to allow banking entities to acquire or retain an ownership interest in a typical loan securitization vehicle, a collateralized loan obligation. As such, they do not successfully implement the rule of construction under section 13(g)(2) of the statute.

The purchase and sale of loans are outside the scope of the proprietary trading prohibition. Assignments and participations are the principal means used by lenders to transfer interests in

³² See section 721 (adding a new paragraph 47(B)(ii) to the Commodity Exchange Act).
29

loans (and commitments to make loans). A loan participation is a traditional banking product used as an alternative to an assignment, typically in circumstances where consent to an assignment is unavailable. A loan participation is a transfer or acquisition of a lender's economic interest in a loan that places the participant in the same risk position as an owner of a portion of the loan. However, although for many purposes (including accounting purposes) the originating banking entities and the participant treat the participation as a sale of the loan to the participation, the "lender of record" does not change. Given the nature and purpose of a loan participation we believe that the agencies intend to treat loan participations as a loan for purposes of Section __3(b)(3)(ii) of the proposed rule. We believe however that the following text in the proposed rule should be clarified to avoid any ambiguity on this point:

The reference in \S __3(b)(3)(ii) to a position that is, rather than a position that is in, a loam... is intended to capture only the purchase and sale of these instruments themselves.

The proposed rule questions whether the definition of loan should exclude a security. We note below how such an exclusion would undermine the value of the loan securitization exemption. It would also cause disnuption in markets where security-based products like variable funding notes are used in place of loans. Like repurchase agreements, while such products are legally distinguishable from loans, they operate in economic substance as loans, and are not based on expected or anticipated movements in asset prices. As with almost all of the subject matter of the proposed rule, a generalized approach to the meaning of the phrase "extension of credit" in the definition of loan would have unintended consequences. We encourage the agencies to use the initial conformance period to develop a comprehensive understanding of the policy and practical implications of a blanket exclusion of securities from that phrase and to work with the industry to develop an approach to the issue that accommodates both the breadth of the statute's proprietary trading prohibition and the need to preserve important sources of credit for U.S. and international businesses.

Despite the exclusion of loans, lending activity will be reduced by the statute unless the final rule excludes from the proprietary trading prohibition all covered financial positions acquired by a firm in the ordinary course of collecting a debt previously contracted. Without that exclusion, banking entities will be less willing to extend loans against collateral in the form of covered financial positions or to extend loans to distressed companies which may result in the lender receiving covered financial positions in lieu of the debt previously contracted in a bankruptcy proceeding. We note that the proposed rule proposes to apply such an exclusion to the prohibition on covered funds activities. We strongly support that proposal and believe that it clearly should be applied in respect of the proprietary trading prohibition as well.

The loan securitization exemption set out in Section __.13(d) of the proposed rule (the "loan securitization exemption") does not reflect the terms of typical loan securitizations. Even the most typical loan securitization vehicles, collateralized loan obligations, will, from time to time, own assets other than those listed in the loan securitization exemption. For example,

subscription proceeds and proceeds from the repayment of loans are commonly held in high quality assets such as Treasury securities, highly rated commercial paper or U.S. dollar cash until such time as they are applied, for example, to acquire loans. Also, like firms, collateralized loan obligations may receive assets other than loans in the course of collecting a debt previously contracted in good faith. It should also be noted that almost no collateralized loan obligations owns credit exposure exclusively in the form of loans; virtually all of such securitizations also permit a holding of corporate bonds or of bonds issued by other collateralized loan obligations. Although they may represent a small percentage of the overall assets of the structure, such "bond buckets" are an essential element of the structure because they allow the structure to access credit assets at times when appropriate assets in the form of loans are temporarily unavailable. Collateralized loan obligations are an important part of the loan markets. There will be almost no occasion on which it will be possible for a banking entity to rely on the loan securitization exemption in relation to a collateralized loan obligation. Consequently, the loan securitization exemption does not (even partially) give effect to the rule of construction under section 13(g)(2) of the statute (the "securitization exclusion")³³ in that respect. We recommend that the agencies revise the loan securitization exemption to reflect the terms of market-standard collateralized loan obligation transactions.

G. The Proposed Definition of Covered Funds Would Disrupt Certain Lending Activity

We discuss in a separate section below several ways in which the definition of covered funds is overbroad with respect to our asset-management business, but note here additional issues that arise in the trading context. The proposed rule encompasses certain securitization vehicles and could result in the disappearance of a number of beneficial securitization activities altogether. That, in turn, would materially reduce the availability of credit for a wide range of industrial, commercial and service-sector entities. As drafted, we believe the definition exceeds the requirements of the statute and fails to take proper account of the securitization exclusion. The final rule should exempt securitization issuers that rely on the exemptions contained in Sections 3(c)(1) and 3(c)(7) of the Investment Company Act, such as asset-backed commercial paper conduits ("ABCP Conduits"), ³⁴ from the definition of covered fund.

Which provides that nothing in the statute is to be "construed to limit or restrict the ability of a banking entity... to sell or securitize loans..."

³⁴ An ABCP Conduit is a special purpose entity, often established by a firm, which issues asset-backed commercial paper to find such ABCP Conduit's activities. ABCP Conduits provide financing to customers of the firm by providing secured lonas to special purpose entities established by customers, or by purchasing asset-backed socurities issued by special purpose entities established by customers. In order to facilitate the ABCP Conduit's issuance of asset-backed commercial paper, the firm that establishes the ABCP Conduit provides liquidity facilities to the conduit to provide funds for the timely repayment of commercial paper, and frequently provides additional credit enhancement to the conduit, often in the form of a letter of credit. ABCP Conduits are prominent examples of securitization vehicles that would be considered "Covered Funds" under the proposed rule, because they typically rely on the exemptions contained in Section 3(c)(1) or 3(c)(7) of the Investment Company Act.

Firms are involved in securitization transactions in various capacities. In addition to securitizing their own loans, for example, they arrange and underwrite securitization transactions for their customers, provide liquidity facilities and credit enhancement to securitization vehicles, establish and administer vehicles such as ABCP Conduits to provide financing to their customers, and provide such financing directly to customers through the direct purchase of asset-backed securities. Certain securitizations are able to rely on exemptions from the Investment Company Act other than those contained in Sections 3(c)(1) and 3(c)(7) of that Act, but many securitizations, such as ABCP Conduits, would be investment companies but for those exemptions and, as such, would meet the definition of a covered fund under the proposed rule. Precluding banking entities from engaging in activities that have long been recognized as permissible activities for banking entities, and that are vital to the normal functioning of the securitization markets, will have an extremely significant and negative impact on the securitization markets and on the ability of banking entities and other companies to provide credit to their customers.

Because Congress understood the important role that securitization plays in the provision of credit to consumers and companies, it included the securitization exclusion in the statute. If the definition of covered fund set out in the proposed rule is adopted in the final rule then the final rule will restrict the ability of banking entities to sell or securitize loans and the final rule will not give effect to the securitization exclusion.

The proposed rule suggests that the agencies consider themselves bound by the statute to treat all entities that rely on the exemptions contained in Sections 3(c)(1) and 3(c)(7) of the Investment Company Act as hedge funds or private equity funds. 55 We believe that the agencies are not so bound and, in fact, could have defined hedge funds and private equity funds. We believe that the agencies are not so bound and, in fact, could have defined hedge funds and private equity funds without reference to those exemptions at all. Under the statute, the terms hedge fund and private equity fund are defined to mean an issuer that would be an investment company under those exemptions or such similar funds as the agencies may, by rule, determine. The proposed rule suggests that the agencies interpreted an "or" in section (h)(2) of the statute as and," resulting in the overly broad definition of covered fund contained in the proposed rule. We believe that the agencies have the statutory flexibility to adopt a definition of hedge fund and private equity fund that encompasses only those entities that are recognized in the market place as such and that excludes entities, such as securitization vehicles, that are clearly distinguishable from hedge funds and private equity funds. In fact, the securitization exclusion explicitly directed the agencies to avoid adopting rules that would limit or restrict the ability of banking entities to sell or securitize loans.

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³⁵ See proposed rule at page 68897: "The proposed rule follows the scope of the statutory definition by covering an issuer only if it would be an investment company, as defined in the Investment Company Act, but for section 3(c)(1) or 3(c)(7) of that Act."

As is true for collateralized loan obligations, the loan securitization exemption is too narrow to be of sufficient value in the broader securitization context as it applies only to issuers of asset-backed securities whose assets are solely composed of "loans" and certain other assets. This fails to recognize that securitization issuers commonly hold assets such as liquidity facilities, credit enhancement, and highly liquid investments or cash in their collection accounts. Notably, it also appears that the agencies are interpreting the definition of "loan" quite narrowly, as the preamble indicates that the agencies do not view that definition to include asset-backed securities. However, securitization vehicles routinely purchase asset-backed securities and other financial interests that have long been viewed by banking entities and the agencies as simply an alternative means by which banking entities provide financing to their customers.

The risk retention exemption also has been drafted too narrowly to be of use in implementing the securitization exclusion, as it limits the amount of a firm's interest to the minimum risk retention requirements of new Section 15G of the Exchange Act and the rules adopted thereunder (the "Risk Retention Rules"). However, the Risk Retention Rules acknowledge that a securitizer may be required to maintain risk in excess of the minimum specified in those rules due to the demand of investors, other rules (including Article 122a of the European Union Capital Requirements Directive), or in order to avoid breaching the minimum risk retention rules due to fluctuations in the underlying asset pool.

Furthermore, even if an entity is able to rely on the loan securitization exemption or the risk retention exemption as they appear in the proposed rule, a firm that sponsors, manages or advises a securitization issuer would be prohibited by the so-called Super 23A provisions set out in Section 16 of the proposed rule from entering into "covered transactions" with that issuer. That would prevent many banking entities from providing the liquidity facilities and credit enhancement that investors in the asset-backed securities require. If such enhancements are not provided then the securitization simply is not viable. The end result of all of these provisions is that the sale and securitizations of loans will have been limited or restricted by the rules that give effect to the statute, contrary to the clear intent of the securitization exclusion.

While we recognize that the agencies could retain the loan securitization exemption and the risk retention exemption and attempt to revise those exemptions to address concerns raised by participants in the securitization markets, we believe that it would be extremely difficult to modify those provisions in a way that would give full effect to the securitization exclusion. The FSOC Study clearly recommended that the agencies carefully evaluate the range of funds

³⁴ We note that we are not providing the agencies with an exhaustive list of all problems that the proposed rule poses to securitization vehicles, as we believe that the most efficient and effective way for the agencies to address these problems is to exclude securitization vehicles from the definition of covered fund. For a more complete list of securitization related issues, the agencies should refer to comment letters drafted by various industry groups, in particular, the comment letters submitted by the American Securitization Forum and SIFMA with respect to Volcker Rule provisions that impact securitization.

and other vehicles that rely on the exclusions contained in Section 3(c)(1) or 3(c)(7) of the Investment Company Act. ³⁷ We encourage the agencies to revisit the approach taken in the proposed rule to ensure that the approach taken in the final rule does not inadvertently limit the availability of credit by unnecessarily and inappropriately limiting the ability of banking entities to engage in securitization activities.

H. Repurchase and Reverse Repurchase Agreements

We agree repurchase or reverse repurchase agreements should not be considered trading account instruments. We also agree with the statement that, in substance, such transactions operate much like a secured loan, and are not based on expected or anticipated movements in asset prices. However, we believe that the proposed rule should have gone further and extended the treatment given to repurchase and reverse repurchase agreements to all transactions that a firm can reasonably demonstrate are not based on expected or anticipated movements in asset prices and that, notwithstanding their legal characterization, operate in economic substance as a financing transaction.

Several types of transactions with legal characteristics that distinguish them from loans are analogous to extensions of credit and are not based on expected or anticipated movements in asset prices. Total rate of return swaps where the firm is fully hedged by holding the asset that is the subject of the swap is an example. In such trades, the economic interest of the firm is limited to the value of a financing leg that is typically a floating rate of interest plus a spread. A foreign exchange swap is a further example. As the Department of the Treasury noted in its proposed Determination of Foreign Exchange Swaps and Foreign Exchange Forwards under the Commodity Exchange Act¹⁸ (the "proposed FX determination") foreign exchange swaps are "predominantly used as short-term funding instruments similar to repurchase agreements". Although the proposed FX determination treats them differently, ³⁹ precisely the same can be said for currency swaps. Currency swaps are currently the primary source of U.S. dollar funding for European entities that fund naturally in euro but also have a need for U.S. dollar sto fund their operations. Given the current economic crisis in Europe, many of such entities are unable to access the U.S. dollar-denominated commercial paper market and the currency swap market (also referred to in this context as the basis swap market) has become the funding source of last resort. Importantly, a determination that these

³⁷ See FSOC Study at page 62. We support comments being submitted by SIFMA regarding an exclusion for securifization vehicles from the definition of covered fund as well as a similar exclusion for other investment vehicles that might rely on the exemptions contained in Sections 3(c)(1) and 3(c)(7) but that are not in the nature of a hedge fund or private equity fund.

³⁸ See Determination of Foreign Exchange Swaps and Foreign Exchange Forwards Under the Commodity Exchange Act, 76 Fed. Reg. 25774 (May 5, 2011).

³⁹ Although the proposed FX determination treats them differently, foreign exchange swaps and currency swaps are not materially different in this respect. Both are, in essence, funding transactions. Currently, it is market practice to structure these funding transactions as currency swaps.

types of transactions are not subject to the Volcker Rule's prohibitions would not affect their status under, for example, the securities laws or the Commodity Exchange Act. Total rate of return swaps transactions and currency swap transactions would remain heavily regulated as security-based swaps and swaps, respectively. Foreign exchange swaps would remain subject to the CFTC's new trade-reporting requirements, enhanced anti-evasion authority, and strengthened business-conduct standards for swaps dealers and major swap participants.

I. The Statute's Exceptions Apply to All Activities It Covers

We support the letter submitted by three law firms, which makes clear that all exceptions contained in the statute unambiguously apply to all types of conduct covered by the statute, whether it be trading or fund ownership. 40

This point is important. For example, as we note above, many structured finance vehicles rely on the exemptions contained in sections 3(c)(1) and 3(c)(7) of the Investment Company Act and, as such, would be covered funds as that term is presently defined in the proposed rule. As the proposed rule is presently structured, the market-making permitted activity affords an exemption from the prohibition against proprietary trading, but affords no exemption from the prohibition against acquiring or retaining an ownership interest in covered funds. As a result, we would be unable to engage in customer-driven underwriting and market making activity with respect to assets such as collateralized loan obligation equity, European exchange-traded fund securities and securities issued by U.S.-exchange traded funds that are commodity pools.

J. Compliance Program

We support the clear statements in the proposed rule permitting a banking entity to establish a compliance program on an enterprise-wide basis when practical. We believe that coordination — and, when appropriate, consistency — across trading units will be essential to the effective and efficient implementation of a compliance program on this scale. As currently proposed, bowever, the non-metric aspects of the compliance program are too granular, would be unnecessarily duplicative, and would disrupt trading activities. The proposed rule should be revised to permit greater flexibility in the level of the organization at which certain policies and procedures are implemented. We see limited benefit to implementing and maintaining separate written policies and procedures for each trading unit, and believe that it will be counterproductive for policies and procedures to be so granular. Indeed, this manner of documentation and maintenance will likely reduce the clarity and

⁴⁰ See Memorandum from Cleary Gottlieb Steen & Hamilton, Davis Polk & Wardwell, and Sullivan & Cromwell, January 23, 2012.

⁴¹ Unless specifically stated, our comments on the compliance requirements focus on the non-metric aspects of the enhanced program required under Section __20(e)(1) of the proposed rule.

accuracy of the message to traders, and increase the likelihood of unintended inconsistencies between the numerous, duplicative compliance framework documents.

More specifically, the proposed rule's inflexible requirement that certain policies and procedures exist for each trading unit will ultimately detract from banking entities' ability to maintain a coordinated, organization-wide compliance program for at least three reasons. First, our experience suggests that it is counterproductive to implement policies or procedures on such a granular level because it creates a false, and potentially hazardous, implication that the policies or procedures in question cover every possible scenario that may be encountered by a trading unit and therefore can be relied upon as an all-inclusive "checklist." Because no policy or procedure can anticipate or address every situation that may create an opportunity for misconduct, policies and procedures should be drafted with some level of generality to take account of the unexpected and ensure that traders consult with their internal compliance officers when fact-specific questions arise.

Second, the proposed rule's policy and procedure framework encourages box-checking for each trading unit, rather than internal compliance best practices that are refined and enhanced over time. If there is uniformity and consistency across trading units from a compliance perspective – as there will be among many closely-related trading units — those units would benefit from consolidated policies and procedures. This promotes, for example, trading units replicating lessons learned by one another in a developing compliance program. As long as they cover all employees in applicable trading units, the level at which these policies are implemented should be left to the discretion of the banking entity with those policies and procedures subject to ongoing review by the Board.

Finally, the proposed rule's requirement that policies and procedures be implemented on a trading unit level will broadly disrupt trading activities given the extensive work required of business management in documenting and maintaining policies that meaningfully reflect each trading unit's business and each trader's book. For this reason, the proposed rule's granular implementation and information requirements also threaten to conflate the distinct roles of business management and compliance in a manner that undermines the essential independence of the compliance function and detracts from the core mission of that function.

III. Funds and Asset Management Activities

J.P. Morgan Asset Management ("IPMAM"), with assets under supervision of approximately \$1.9 trillion and assets under management of approximately \$1.3 trillion (as of December 31, 2011), is a global leader in investment management. IPMAM's customers include institutions, retail investors and high-net worth individuals in every major market throughout the world. IPMAM offers investment management services globally, including in equities, fixed income, real assets, alternatives and liquidity products.

Below, we highlight three significant concerns with the proposed rule: (1) the impact on our asset management business of the definitions of "covered fund" and "banking entity" as they

relate to JPMAM and other U.S. institutions' foreign funds and asset management activities outside the United States; ⁴² (2) the potential negative impact on corporate bonds held by our customers; and (3) limitations on the ability of banking entities, like JPMorgan, to continue to make investments through funds that are designed to promote the public welfare both in and outside the United States. ⁴³

A. Foreign Funds

The Volcker Rule prohibits banking entities from acquiring or retaining an ownership interest in, or sponsoring, hedge funds or private equity funds. The Volcker Rule generally defines "hedge funds" and "private equity funds" as issuers that would be investment companies, as defined in the Investment Company Act of 1940 (the "Investment Company Act"). "but for Section 3(c)(1) or 3(c)(7) of the Investment Company Act. The Volcker Rule on its face also permits the agencies, in their discretion, to designate as "covered funds" additional funds that re "similar" to "hedge funds" and "private equity funds" such that they would be covered by the Volcker Rule's limitations. "5 Pursuant to this authority, the agencies have expanded the definition of covered fund in the proposed rule to include "(a)ny issuer, as defined in section 2(a)(22) of the [Investment Company Act], that is organized or offered outside of the United States that would be a covered fund as defined in [Section ___,10(b)(1)(i), (ii) or (iv) of the proposed rule], were it organized or offered under the laws, or offered to one or more residents, of the United States or of one or more States" (such provision, the "Foreign Funds Designation").

1. Foreign Funds as "Covered Funds"

As currently drafted, the Foreign Funds Designation could be read to require banking entities to engage in two inquiries: first, were the foreign fund hypothetically organized in the United States, would it need to rely on Section 3(c)(1) or 3(c)(7) and second, were the foreign fund

⁴² This section of our letter specifically addresses (i) Questions 224 and 225 in the preamble to the proposed rule requesting comment on whether entities are captured by the proposed definition of covered fund that do not appear to be appropriate and whether the designation of certain foreign funds under Section __10(D)(1)(iii) of the proposed rule correctly describes entities that should be "covered funds" and (ii) Question 8 in the preamble requesting comment on whether an express exclusion from the definition of "banking entity" about be made for mutual funds and other registered investment companies that are not structured as affiliates of banking entities for BHC Act purposes.

⁴¹ This section of our letter specifically addresses Question 276 in the preamble to the proposed rule requesting comment on whether the proposed rule effectively implements the public welfare investment exemption under the Volcker Rule.

^{44 15} U.S.C. § 80a-1 et seq.

^{45 12} U.S.C. § 1851(h)(2).

⁴⁶ Section __.10(b)(1)(iii) of the proposed rule.

hypothetically offered to U.S. residents, would it need to rely on Section 3(c)(1) or 3(c)(7). Under one plausible reading, an affirmative answer to either of these inquiries would result in the foreign fund being a "covered fund." The first inquiry is problematic because it requires banking entities to analyze their foreign funds through the lens of the Investment Company Act. This is a potentially impossible inquiry because foreign funds, even regulated and publicly offered foreign funds, such as E.U.-based UCITS, ⁴⁷ are structured to comply with their own home-country regulatory schemes that may not be consistent with the requirements of the Investment Company Act that would permit such funds to satisfy either the registration requirement under the Investment Company Act or a Investment Company Act registration recurrement under the Investment Company Act or a Investment Company Act registration recurrement under the Investment Company Act or a Investment Company Act registration recurrement under the Investment Company Act prospect were able to conclude that, if it were organized in the United States, it would not need to rely on Section 3(c)(1) or 3(c)(7), the second inquiry could be read to capture virtually all regulated and publicly offered foreign funds because the Investment Company Act prohibits a foreign-organized fund from making a public offering in the United States without the SEC's approval. ⁴⁸ Such a foreign fund, by administrative interpretation, is permitted to use the jurisdictional means of the United States to make an offering to U.S. residents only if it complies with the limitations set forth in Section 3(c)(1) or 3(c)(7), as if it were organized in the United States. Consequently, as currently drafted, the Foreign Funds Designation could be read to designate virtually all foreign funds, even regulated and publicly offered foreign funds, as covered funds.

2. Application to JPMAM; Statutory Definition; Intent of Congress; Intent of the Agencies

JPMAM offers registered mutual funds and other fund products in the United States as well as analogous funds outside the United States (such as UCITS). Indeed, JPMAM offers nearly 800 funds in Europe, Latin America and Asia, with nearly \$300 billion in assets under management, the great majority of which are funds that are similar to U.S. mutual funds. For example, JPMAM is the largest sponsor of Luxembourg-based UCITS, with approximately 300 funds and \$240 billion of assets under management, and the largest sponsor of U.K. investment trusts, with more than 22 funds and approximately \$10 billion of assets under management. Those two categories (UCITS and UK Investment Trusts) account for more than 80% of JPMAM's assets under management in foreign funds: Revenues associated with those foreign fund operations are significant contributors to JPMAM's overall success.

Under the Volcker Rule and the proposed rule, JPMAM's U.S. mutual fund complex would not be covered by the Volcker Rule because those funds are registered pursuant to the Investment Company Act and, thus, are not within the definition of covered fund. However, as discussed above, virtually all of JPMAM's publicly offered foreign funds that are subject to a non-U.S. regulatory scheme, including UCITS, are at risk of being deemed to be covered

⁴⁷ Undertaking for Collective Investment in Transferable Securities.

⁴⁸ 15 U.S.C. § 80a-7(d).

funds under one plausible reading of the proposed rule, notwithstanding that those foreign funds are, in many cases, mirror images of their counterparts in the United States, and are neither "similar" to flunds that must rely on either Section 3(c)(1) or 3(c)(7) nor resemble traditional hedge funds or private equity funds. In light of this potential result and other considerations, JPMAM believes that, unless clarified, the proposed rule's treatment of foreign funds is not consistent with the statute, Congressional intent⁴⁹ or the recommendations made by the FSOC on the Volcker Rule.⁵⁰

It is clear from the statute that the agencies are authorized to expand the statutory definition of covered fund only to capture funds that are "similar" to hedge funds or private equity funds of the type described in Section ___10(b)(1)(i) (i.e., funds that, among other things, must rely on Section 3(c)(1) or 3(c)(7) of the Investment Company Act, and, therefore, by definition, cannot engage in a public offering). A similar fund, therefore, should be a fund that, at the very least, is both unregulated and privately placed. Hedge funds and private equity funds as commonly understood also typically do not provide frequent liquidity for investors (redemptions are often subject to lock-up periods and lengthy notice periods prior to redemption). Funds that provide for regular liquidity to investors, in our view, are not similar to traditional hedge funds and private equity funds. Given the nature of the statutory direction to cover only similar funds, we believe that the current treatment of foreign funds may not have been the result intended by the agencies in drafting the Foreign Funds Designation.

We believe that the agencies intended the Foreign Funds Designation to capture traditional hedge funds and private equity funds that are organized or offered outside the United States (and thus do not need to rely on Section 3(c)(1) or 3(c)(7) of the Investment Company Act). Indeed, the preamble to the proposed rule states that the Foreign Funds Designation was "proposed to include as 'similar funds'... the foreign equivalent of any entity identified as a 'covered fund'... [because] they are generally managed and structured similar to a covered

⁴⁹ Congress intended to restrict banking entities from retaining ownership interests in traditional hedge funds and private equity funds (see Himes-Frank Colloquy, 111 Cong. Rec. H5226 (daily ed. June 30, 2010) (statements of Reps. Himes and Frank)).

⁵⁰ The FSOC recommended that the agencies expand the coverage of the Volcker Rule to funds that "engage in the activities or have the characteristics of a <u>traditional</u> private equity fund or hedge fund." <u>See</u> FSOC Study at 62 (emphasis added).

Because the statutory text of the Volcker Rule relies on the Section 3(c)(1) and 3(c)(7) exemptions in the Investment Company Act to define "hedge funds" and "private equity funds," funds that are not required (or able) to register under the Investment Company Act, because, for example, they are organized and offered outside the United States and do not use U.S. jurisdictional means, would appear not to be covered by the Volcker Rule even if those funds were the foreign equivalents of traditional hedge funds and private equity funds. Coverage of the Volcker Rule, in fact, should apply comparably to equivalent U.S. hedge funds and private equity funds and on-U.S. bedge funds and private equity funds. As discussed infin, we believe that in order to apply this principle of equivalent treatment, however, the definition of covered fund in the proposed rule needs to be modified.

3. Recommendation

Capturing the foreign equivalents of hedge funds and private equity funds as commonly understood does not require the Foreign Funds Designation to be structured in the manner proposed. The proposed draft of the Foreign Funds Designation could be corrected most simply by exempting from the definition of covered fund any foreign fund that is publicly offered because, as noted above, a publicly offered fund is not similar to a traditional hedge fund or private equity fund and could not, by definition, rely on Section 3(c)(1) or 3(c)(7) of the Investment Company Act if it were offered in the United States. In the event the agencies do not find this simple solution acceptable, IPMAM recommends that the agencies adopt a more tailored approach to the Foreign Funds Designation designed to capture hedge funds and similarly. Such an approach should allow JPMAM and other U.S. financial institutions to continue to offer regulated and publicly offered funds outside the United States, as they currently do, and to compete in this business with other international U.S. and non-U.S. asset management firms. Below, we have proposed a revision of the Foreign Funds Designation that, we believe, accomplishes this goal.

In order to implement the clear statutory language of the Volcker Rule and the intent of Congress, we believe Section __.10(b)(1)(iii) of the proposed rule should be modified to read as follows:

"(iii) Any issuer, as defined in section 2(a)(22) of the Investment Company Act of 1940 (15 U.S.C. 80a-2(a)(22)), that satisfies each of the following conditions:

⁵² See proposed rule at page 68897.

⁵³ As the agencies noted in the preamble to the proposed rule, Section II.A: "[A]ny rule must also preserve the ability of a banking entity...to effectively deliver its clients the types of financial services that section 13 expressly protects and permits. These client-oriented financial services, which include...traditional asset management services, are important to the U.S. financial markets and participants in those markets, and the agencies have endeavored to develop a proposed rule that does not unduly constrain banking entities in their efforts to safely provide such services" See proposed rule at page 58849.

- (A) The issuer is an investment company, as defined in the Investment Company Act of 1940 (15 U.S.C. 80a-3);
- (B) The issuer is organized outside the United States and ownership interests in the issuer are offered outside the United States;
- (C) If the issuer were organized in the United States but not registered under the Investment Company Act of 1940 (15 U.S.C. 80a-1 et seq.), and ownership interests in the issuer were offered in the United States, the issuer would not be able to rely on any exemption from registration other than Section 3(c)(1) or 3(c)(7) of the Investment Company Act of 1940 (15 U.S.C. 80a-3(c)(1) or (7));
- (D) The issuer cannot satisfy each of the following criteria:
- The issuer is registered pursuant to, or regulated under, the laws of a qualified
- (2) Ownership interests in the issuer were sold in a public offering or series of related public offerings.⁵⁵ in one or more qualified jurisdictions, or the issuer is being organized for the purpose of selling its ownership interests in a public offering or a series of related public offerings in one or more qualified jurisdictions, provided that no offering will be considered a "public offering" pursuant to this clause (2) if: (i) such offering could be made pursuant to Section 4(2) of the Securities Act of 1933 (15 U.S.C. 77D(2)) if it were conducted in the United States; or (ii) the ownership interests sold in such offering or series of related offerings are listed on one or more securities

Own:

(a) Qualified jurisdiction means:

(i) Any jurisdiction in which a designated offshore securities market, as defined in Regulation S, a) Qualified jurisuiceton in which a designated offshore securities market, as ucused a varieties of the cists;
(ii) Any jurisdiction that has a securities commission that has entered into a bilateral Memorandum of Understanding directly with the SEC regarding enforcement cooperation;
(iii) Any jurisdiction that has a securities commission that is a signatory to the International Organization of Securities Commissions Multilateral Memorandom of Understanding; and
(iv) Any other jurisdiction designated as a "qualified jurisdiction" by the Board, in consultation with the other federal banking agencies, the SEC, and the CFTC.

Section __2 of the proposed rule would be amended to include a new definition for "qualified jurisdiction," as

⁵⁵ We believe it is appropriate to reference the standard for public offering in the jurisdiction of the offering, recognizing that the U.S. standard may not fit within the legal framework in some jurisdictions outside the United States. Our proposed rule does use the U.S. standard for a private offering under Section 4(2) of the Securities Act of 1933 in order to define what would not be a public offering. This, along with the requirement that the offering be conducted pursuant to the laws of a qualified jurisdiction, should allay any concerns the agencies may have regarding the offering standards for foreign funds that would not be covered funds.

exchanges and less than 50 percent of the ownership interests in the issuer were sold in such offerings; 56 and

(3) (i) The issuer provides at least weekly liquidity to its investors and calculates, at least weekly, a net asset value, or its equivalent, which is made available to current and potential investors; or (iii) ownership interests in the issuer are listed on a securities exchange regulated pursuant to the laws of a qualified jurisdiction;

· and

(E) Substantially all of the ownership interests in the issuer are not sold to another issuer that is not a covered fund.⁵⁷?

In addition, with respect to monitoring and enforcement, we have considered what compliance program and recordkeeping requirements could be implemented to ensure that the agencies have a view into banking entities' foreign fund activities in order to monitor compliance with our proposal. We propose that the agencies amend Appendix C, Section II of the proposed rule by adding a new Subsection C, which we set forth in Appendix A to this letter.

4. Advantages

Our recommendation has several advantages over the Foreign Funds Designation, as currently drafted. First, we believe that the set of characteristics described under subparagraph D are key features of regulated and publicly offered foreign funds that could not be satisfied by a traditional hedge fund or private equity fund – certainly a fund with those characteristics could not rely on Section 3(c)(1) or 3(c)(7) of the Investment Company Act if it were organized in the United States. This approach will give the proposed rule sufficient breadth to cover any foreign funds that are truly hedge funds or private equity funds, while allowing banking entities to continue to offer traditional asset management products to their customers outside the United States. As a result, for purposes of coverage under the Volcker Rule, analogous U.S. and foreign funds would be treated comparably.

Second, the modification is fully consistent with the discretion given to the agencies on the face of the statute to determine whether, and how, to designate "similar funds," and does not

Our proposed requirement that at least 50 percent of the ownership interests in a listed fund be sold in a public offering or series of related offerings is designed to prevent a banking entity from using a nominal listing to satisfy the "listing requirement."

³⁷ Subsection E is intended to allow banking entities to continue to sponsor funds that are part of a fund of funds structure. Some IPMAM funds are organized to be sold almost exclusively to fund of funds. Because these funds typically could not meet the public offering criteria of Section ___10(b)(1)(iii)(D)(II) of our proposed definition, these funds would be "covered funds" even though they are being sold almost exclusively through a fund of funds that is not a covered fund.

require the agencies to rely on Section 13(d)(1)(I) of the BHC Act, which authorizes the agencies to exempt activities from the limitations of the Volcker Rule that would promote and protect the safety and soundness of the banking entity and the financial stability of the United States. ³⁸ Rather than create exceptions to an overbroad definition, we believe the better approach is to craft a more tailored, yet still robust, definition of covered fund and to address any concerns regarding gaps if, and when, they are identified. ⁵⁹ The agencies will retain the ability to amend the definition of covered fund and to designate additional "similar" funds as covered funds and, if necessary, could also pursue anti-evasion actions pursuant to the stante.

Finally, this approach ensures that funds that will not be covered by the Volcker Rule are subject to an acceptable level of regulation. To that end, our recommendation provides that a foreign issuer that is not covered by the Volcker Rule be regulated under the laws of a "qualified jurisdiction." Although the agencies could define qualified jurisdiction using any criteria they deem appropriate, we recommend that the agencies define qualified jurisdiction as follows: (1) any jurisdiction in which a designated offshore securities market, as defined in Regulation 5, exists; 60 (2) any jurisdiction that has a securities commission that has entered into a bilateral Memorandum of Understanding directly with the SEC regarding enforcement cooperation; (3) any jurisdiction that has a securities commission that is a signatory to the International Organization of Securities Commissions Multilateral Memorandum of Understanding 61; and (4) any other jurisdiction so designated by the Board, in consultation

³⁴ Although Question 223 in the preamble to the proposed rule suggests Section 13(d)(1)(J) might be used to address issues of overbreadth, and although we support the use of Section 13(d)(1)(J) where appropriate, use of this authority is not necessary or appropriate in this context.

⁵⁹ Question 223 also suggests defining a covered fund by determining whether a fund satisfies any one of a list of characteristics. Given the broad list of characteristics identified in the question and the fact that the agencies suggested that meeting one of the characteristics would make a fund a "covered fund," we believe that such an approach, as proposed, would have a similar overbroad effect of covering funds that are not similar to traditional bedge funds or private equity funds. For example, "sells securities and other assets short" was listed in Question 223 as one of the hedge fund and private equity fund characteristics. Many registered U.S. mutual funds, including several funds advised by JPMAM, engage in some shorting strategies as a component of the fund's overall strategy (e.g., long-short funds and 13030 funds). Although registered mutual funds that employ shorting strategies do not meet many of the other characteristics listed and, of course, are not "traditional" hedge funds and private equity funds, Question 223 seems to suggest that they would be "covered funds."

⁶⁰ Rule 902(b) of Regulation S (17 C.F.R. § 230,902(b)). Attributes considered by the SEC in determining which foreign securities markets are designated include: organization under foreign law, association with a generally recognized community of brokers, dealers, banks, or other professional intermediaries with an established operating history, oversight by a governmental or self-regulatory body, neversight standards set by an existing body of law, reporting of securities transactions on a regular basis to a governmental or self-regulatory body, a system for exchange of price quotations through common communications media and an organized clearance and settlement system. Id.

⁶¹ The International Organization of Securities Commissions ("IOSCO") is a multilateral international organization of securities regulators. IOSCO members have resolved to, among other things, (1) cooperate together to promote high standards of regulation in order to maintain just, efficient and sound markets; (2)

with the other federal banking agencies, the SEC, and the CFTC. Our recommended approach to the definition of qualified jurisdiction references existing, objective standards that would avoid the need to create new designations and would ensure the robustness of the regulatory scheme applicable to foreign funds that are not covered by the Volcker Rule. 62

Consequence:

If the Foreign Funds Designation were not modified, in order to engage in the asset management business internationally, JPMAM and other banking entities would need to conform their non-U.S. activities with respect to funds that are not commonly understood to be hedge funds or private equity funds to the limitations contained in the proposed rule. The limitations in Section __11 (which include, among other things, limitations on name sharing, ownership of interests in funds and employee investments in funds) and Section __16 (limitations on a banking entity's entering into covered transactions with covered funds) would impose significant costs on JPMAM and other banking entities, without any real regulatory benefit. For example, the prohibition that a covered fund not share the same name as the banking entity may, depending on the fund's legal structure and applicable regulation, require a shareholder vote and may, in fact, raise issues under applicable law in certain jurisdictions that require the fund name to be clear and not misleading. The 3% per fund ownership limit would need to be monitored by hanking entities on a continuous basis because many of the captured funds provide daily liquidity to investors. That requirement will force banking entities to sell interests in funds that may be the equivalent of U.S. mutual funds if, on a single day, the banking entity's position exceeds the 3% limit solely because other investors have redeemed. Furthermore, if the proposed rule were not modified, banking entities could be required to deduct the amount of their interest in foreign funds from the calculation of their Tier I capital. The prohibitions contained in Section __16 (the so-called "Super 23A" provision) would force large fund complexes, like ours, to cease having an

exchange information on their respective experiences in order to promote the development of domestic securities markets; (3) unite their efforts to establish standards and an effective surveillance of international securities transactions; and (4) provide mutual assistance to promote the integrity of the markets by a rigorous application of international standards and by effective enforcement against offenses. (50SCO's "Objectives and Principles of Securities Regulation" is the beachmark standard for securities regulators and one of the twelve key standards for financial stability as recognized by the Financial Stability Board (See U.S. Securities and Exchange Commission, "SEC Participation in International Organizations" http://www.sec.gov/about/offices/oia.abtml).

⁶² We also believe that such an approach would not implicate foreign policy considerations that, although within the agencies' authority to undertake, may be time consuming.

⁸⁵ See, e.g., Regulation 15(9) of the U.K. Open End Investment Company Regulations. Among the factors that the U.K.'s Financial Services Authority considers in determining whether a fund name is "undesirable or misleading" is whether the fund name "might mislead investors into thinking that persons other than the authorized fund manager are responsible for the authorized fund."

⁶⁴ Section ___.12(d) of the proposed rule.

affiliated entity serve as the fund's custodian or engage in principal trades on behalf of the fund, both of which services are permitted under non-U.S. law and, with respect to an affiliate providing custodial services to a fund, is also permitted under the Investment Company Act for JPMAM's U.S. mutual funds. The cumulative effect of those burdens and the long time period required to satisfy the Section _11 and Section _16 requirements could prevent JPMAM and other banking entities from launching new retail products in the existing fund families for a considerable time period after the Volcker Rule's effective date. Although banking entities have been on notice since July 2010 that traditional hedge funds and private equity funds would be subject to the Volcker Rule, it could not have been anticipated that regulated retail funds such as UCITS could become covered funds.

Even if it were possible to comply with the limitations and prohibitions mentioned above, those restrictions, and the additional costs associated with compliance, would place IPMAM at a competitive disadvantage to U.S. and non-U.S. asset managers that are not subject to the Volcker Rule and that are not required to modify their asset management businesses. We do not believe that this was the result intended by the agencies in formulating the Foreign Funds Designation and it was not the result intended by Congress.

6. Definition of "Banking Entity"

Under the Volcker Rule and the proposed rule, "banking entity" means, in relevant part, "any insured depository institution... and any affiliate or subsidiary of [an insured depository institution]." "affiliate" and subsidiary" are defined by reference to the very broad definitions of those terms under the BHC Act.

In the preamble to the proposed rule, the agencies noted that mutual funds, including registered investment companies, are structured such that they are not affiliates or subsidiaries of banking entities under the BHC Act and thus, would not themselves be banking entities under the Volcker Rule. There is, however, no provision in the proposed rule that explicitly carves out mutual funds and other registered investment companies from the definition of banking entity. Question 8 inquires whether the agencies should make such an express exclusion from the definition of banking entity in the proposed rule.

Although we agree that, as a general matter, registered investment companies are not, and should not, be considered affiliates or subsidiaries of the banking entities that organize, sponsor, invest in, advise or manage them, we support the clarification of this point in the proposed rule. If such an approach were adopted, we recommend that the express exclusion be made broad enough to also exclude foreign funds that are analogous to registered investment companies. There is no regulatory reason that analogous U.S. and foreign funds

⁶⁵ Section 13(h)(1) of the BHC Act and Section ___.2(e) of the proposed rule, respectively.

 $^{^{66}}$ $\underline{\text{See}}$ proposed rule at page 68856.

should be treated differently in this respect. We believe that the following modification to the definition of banking entity would be consistent with the agencies' proposition and would appropriately tailor the exclusion. Section __.2(e)(4) would read:

- "(4) Any affiliate or subsidiary described in paragraph (1), (2), or (3) of this section, other than an affiliate or subsidiary that is:
- (i) A covered fund that is organized, offered and held by a banking entity pursuant to § __11 and in accordance with the provisions of subpart C of this part, including the provisions governing relationships between a covered fund and a banking entity;
- (ii) An entity that is controlled by a covered fund described in paragraph (e)(4)(i) of this section; or
- (iii) An issuer, as defined in section 2(a)(22) of the Investment Company Act of 1940 (15 U.S.C. 80a-2(a)(22)), that is
- (A) A registered investment company under the Investment Company Act of 1940 (15 U.S.C. 80a-8); or
- (B) Organized outside the United States and is not a covered fund pursuant to section __.10(b)(1)(iii). 67

We believe that this approach would address a concern we have raised throughout this letter regarding the equivalent treatment of U.S. and foreign funds. Our proposal is intended only to ensure that registered investment companies and foreign funds are not included in the definition of "banking entity" and does not discuss other concerns that the proposed definition of "banking entity" raises, which we expect other comment letters will address.

7. Conclusion Regarding Foreign Funds and Banking Entities

The foregoing is intended to bring attention to the effect that the Foreign Funds Designation and the proposed rule's definition of banking entity would have on the international asset management activities of U.S. banking entities, such as JPMAM. We know that other commenters, such as SIFMA of which we have been an active member, will raise similar concerns to those we have raised in this letter. SIFMA's approach to these concerns, which we generally support, may be broader than the tailored solutions we have recommended. To the extent that the agencies accept some or all of these broader recommendations, we believe such recommendations should apply to foreign funds to the extent appropriate. We also join in full support of SIFMA's positions on other aspects of the Volcker Rule that focus on the covered funds portion of the proposed rule.

⁶⁷ This refers to Section ___.10(b)(1)(iii) of the proposed rule as revised pursuant to our recommendation above.

We firmly believe that any rulemaking by the agencies should reflect Congress' intent that the limitations of the Volcker Rule extend only to funds similar to traditional hedge funds and private equity funds because Congress would not have intended that analogous U.S. and foreign funds be treated differently. In addition to implementing that intent, we believe that the agencies should consider the economic and organizational impact of the proposed rule on both the U.S. and non-U.S. operations of banking entities and weigh that against discernible regulatory benefits. We believe that the aspects of the proposed rule discussed in this letter would have negative economic and organizational effects on the international asset management activities of U.S. banking entities, including JPMAM, with little regulatory benefit. We believe our tailored recommendations would minimize negative impacts while ensuring a robust regulatory scheme that is consistent with the statute and Congress' intent.

B. Corporate Bonds

IPMAM oversees more than \$800 billion in fixed income assets on bebalf of its customers. Given our active presence on behalf of our customers in the fixed income markets, we are concerned that the proposed rule, as currently drafted, could reduce the value of our customers' current investments in corporate bonds and inhibit our customers' ability to access the corporate bond market in the future. While we have described these concerns from the perspective of IPMorgan's market makers above, we believe it is important to highlight the serious concerns we have regarding the effect of the proposed rule from the perspective of our asset management business. We focus in particular on the impact on the corporate bond market.

1. The Corporate Bond Market

Corporate bonds are inherently less liquid than equities because corporate bonds are traded over the counter (that is, directly between two parties, rather than through an exchange). Moreover, issuers of corporate bonds often have multiple bond issues outstanding with smaller or older issues (which are often described as "off-the-run") having less liquidity than more recent or larger issues (which are often described as "on-the-run"), which have greater liquidity.

Liquidity in the corporate bond market has generally declined since 2007, with trading becoming increasingly concentrated in a smaller number of issuers over this time period. 68

From January 1, 2011 to September 30, 2011, approximately 5% of the total number of issuers in the U.S. investment grade corporate bond universe accounted for 50% of trading volume according to MarketAxess data. Trading has also increasingly focused on larger issues. In the first three quarters of 2011, turnover (on an annualized basis) in issues greater than 31 billion was approximately 1.1x versus only approximately 0.8x in 2006. By contrast, turnover (on an annualized basis) in issues between \$250 and \$500 million has declined from approximately 0.5x in 2006 to approximately 0.5x in the first three quarters of 2011. Similar trends were also observed in issues aixes of \$500 - \$750 million and \$750 million (Barelays Capital, U.S. Credit Alpha, November 18, 2011, at 6, Figure 5). Trading volume in older securities has shown a similar pattern of decline (Id. at 7, Figure 7).

Our customers' portfolios include both on-the-run and off-the-run securities, and, as a result of decreased liquidity, our customers have experienced increased transaction costs associated with purchases or sales in all issues. Maturity restrictions, investor preferences and transaction costs make it impractical and often impossible for customers to concentrate their holdings only in on-the-run issues and simply holding the off-the-run investments to maturity may not be possible for some customers who may need to sell off-the-run issues based on, for example, cash flow requirements, pension obligations or asset allocation shifts.

As market makers, securities dealers facilitate trading in both on-the-run and off-the-run corporate bond issues, among other securities, by standing ready to buy and sell. In a very liquid market, such as equity securities, market makers are able to sell securities they buy, and buy securities they need to sell, quickly and easily. Corporate bond markets and fixed income markets in general are by their nature (e.g., multiple different issues from a single issuer) less liquid than other markets, and market makers therefore must buy and hold securities in their inventory longer than in other markets. Thus, the market for off-the-run issues has led market makers to hold securities in their inventory for longer time periods.

2. Restrictions on Market Making

3. Restrictions in the Context of other Regulatory Developments

The effective date of the Volcker Rule coincides with the implementation of other regulatory measures that may also reduce liquidity in the corporate bond market. Specifically, Basel III risk-weighted asset calculations will change the economics of positioning corporate bond inventories. Additionally, for European banks which may be evaluating the risk weighted asset impact of selected capital markets activities in connection with meeting the European Bank Association's capital requirements based on "Basel II.5" calculations, the requirement to comply with the Volcker Rule when trading with U.S. counterparties outside of the United

⁶⁹ Section __.4(b)(2)(v) of the proposed rule.

States could be significant enough to support a decision to reduce their market making activities. Fewer active market makers will further pressure the pricing and liquidity of corporate bonds. In light of this, we think it is important that the proposed rule be modified so that it does not exacerbate the pressure on the liquidity of this market.

4. Effect on Our Customers

We believe that the proposed rule, if not modified, will result in significantly decreased liquidity in the corporate bond market for our customers and other institutional and individual investors. This markedly lower level of liquidity will result in an immediate negative impact to the value of securities currently held by investors, based on the liquidity premium, and will result in increased transaction costs for future transactions in these securities. ⁷⁰ In revising the proposed rule, we urge the agencies to consider the impact of the proposed rule on investors in less liquid markets, such as corporate bonds, who rely on market makers to ensure an available, functioning market.

C. Public Welfare Investments Abroad

We believe it is important that the proposed rule treat analogous U.S. and non-U.S. activities and investments similarly. The proposed rule implements the statutory exemption from the restrictions of the Volcker Rule with respect to investments in small business investment companies ("SBICs"), investments "designed primarily to promote the public welfare, of the type permitted under [12 U.S.C. § 24(Eleventh)], and certain investments that are qualified rehabilitation expenditures."

We urge the agencies to clarify in the final rules that the exemption also extends to those investments "of the type permitted under [12 U.S.C. 24(Eleventh)]" made outside the United States, including through U.S. and non-U.S. funds.

A recent study by Oliver Wyman has estimated that investors could suffer a \$90-315 billion mark-to-market loss caused by a repricing of the liquidity premium, as well as an additional \$1-4 billion of higher transaction costs going forward (Oliver Wyman, Volcker Impact Analysis December 11, 2011).

⁷¹ 12 U.S.C. 1851(d)(E).

⁷² Section __13(a) of the proposed rule.

Our letter addresses only this narrow concern regarding the proposed rule's implementation of the statutory exemption for SBICs and other public welfare investments. We expect other commenters will address additional concerns, including with respect to the proposed rule's application of "Super 23A" to SBICs despite their being exempted from the definition of "covered fund."

1. Impact Investing

Many banking entities, including J.P. Morgan, have developed investment strategies to assist in the market of impact investing—that is, investing with the intent to generate a reasonable rate of financial return, while also benefitting low- and moderate income communities both in the United States and around the world. Although the emergence and growth of the impact investment market is a worldwide trend, currently, a majority of the investable opportunities lie in the emerging markets. U.S. governmental agencies, including U.S. Agency for International Development and the Overseas Private Investment Corporation, support those efforts, recognizing that such oversees impact investments help advance U.S. foreign policy interests and promote international development.

2. Clarification Needed

We believe that the proper implementation of the statutory text, and indeed the proper interpretation of the proposed rule, requires that the exemption for public welfare investments extend to such investments made outside the United States. The statutory and regulatory phrasing, "of the type," conveys that this exemption should be interpreted broadly and that 12 U.S.C. § 24(Eleventh) merely provides an example of, but does not circumscribe, the type of investments permitted under this exemption. As Senator Merkley noted, the exemption "is flexible enough to permit the regulators to include other similar low-risk investments with a public welfare purpose." A contrary reading would make the words "of the type" superfluous. We believe the agencies should confirm this interpretation in the final rules and make clear that the reference to 12 U.S.C. § 24 is not intended to limit permissible public welfare investments to investments in the United States.

A banking entity should be permitted to conduct impact investing outside the United States through funds, so long as the banking entity can demonstrate that such investments made by the fund advance a public welfare purpose "of the type" (i.e., analogous to) investments permitted by 12 U.S.C. § 24(Eleventh). We believe this interpretation is required by the statutory text and is consistent with congressional intent, and we suggest the agencies make this clear in the final rules.

IV. Asset-Liability Management

A. Asset-Liability Management is a Foundation of Safety and Soundness

For large, complex banking institutions, asset-liability management ("ALM") is one of the foundations of bank safety and soundness and is integral to the stability of the U.S. and global financial systems.

Merkley-Levin Colloquy, 156 CONG. REC. S5894 (daily ed. July 15, 2010) (statement of Sen. Merkley).

Indeed, the growing regulatory focus on stress tests for large banking institutions, including JPMorgan, such as the Comprehensive Capital Analysis and Review process, clearly demonstrates the central importance of a prudent and well-managed ALM function. If stress tests are designed to diagnose potential safety and soundness problems in the event of potential market or economic shocks, prompt ALM actions are required as the prescription for limiting the risks that stress testing identifies.

In its study on the Volcker Rule, the FSOC recognized the importance of these issues and clearly concluded that the Volcker Rule should not prohibit ALM activities. In its guidance, the FSOC stated: "All commercial banks, regardless of size, conduct ALM that helps the institution manage to a desired interest rate and liquidity risk profile. This study recognizes that ALM activities are clearly intended to be permitted activities, and are an important risk mitigation tool."

The proposed rule, however, expands the scope of the Dodd-Frank Act and therefore brings within its prohibitions ALM activities that are important aids to safety and soundness. Oddly, while the FSOC study recommended an exemption that included both asset-liability and liquidity risk management, for much the same reasons, the proposed rule included only the latter. The result is that the proposed rule seems to have been written with traditional dealer and market-making trading activity in mind, and creates serious problems for legitimate ALM activity.

As currently structured, many ALM activities should be permissible under the proposed rule, because they pass the purpose test and would not be booked in a "market risk capital trading" book. Another group of ALM activities will be permissible to the extent they fall within the exclusion provided in the proposed rule for bona fide "liquidity management" activities—although, as discussed further below, liquidity management is only one small part of a banking institution's overall ALM activities, and the exclusion is so narrow in scope and restrictive in operation that it would not even permit many bona fide liquidity management activities, thus making the exclusion unworkable even for this narrow subset of ALM activities. Finally, while some ALM activities may be permitted by the proposed rule under its exception for "risk-mitigating hedging" activities, many legitimate, useful ALM activities will not, because that exception, as noted above, does not appear to have been drafted with ALM in mind, is subject to too many restrictive conditions, and is thus too narrow. Accordingly, while certain ALM activities will be permissible, equally valid ALM activities—although they are not speculative in nature, or entered into principally for "the purpose of near term resale or otherwise with the intent to resell in order to profit from short-term price movements"— could nonetheless be deemed, or even presumed to be, prohibited proprietary trading.

We believe that the final rule should provide for an explicit exclusion for ALM activities, which would be broad enough to include the proper range of liquidity management activities. Like the current exclusion for liquidity management activities, the exclusion for bona fide

⁷⁵ See FSOC Study at page 47.

ALM activities would be conditioned on appropriate requirements that ensure such activities will not be used to evade the statutory prohibition on proprietary trading.

B. Many ALM Activities Would be Captured by the Definition of Trading Account

While many securities utilized in asset-liability management are accounted for as available-for-sale ("AFS") securities, many other traditional and long-established ALM activities often involve the use of instruments that would be required to be accounted for in the market risk capital trading account of the entity, thereby meeting the market risk capital test of the proposed rule. In addition, some of these ALM activities may require, in order to manage the relevant risks effectively, the exiting of a position within 60 days, thereby falling within the purpose test of the proposed rule.

The need to exit positions quickly arises because the structural risks of the firm are constantly changing due to the dynamic nature of the asset and liability flows and the impact of changing interest rates. The change in market value sensitivity (or "drift") of certain assets and liabilities requires continuous hedging of the structural risk book, which is often best managed through the use of securities or derivatives accounted for in the market risk capital trading account, or by entering and exiting a position within 60 days. Thus, unless the banking entity were able to determine that the risk mitigating exemption or the liquidity management exclusion applied, these activities would be deemed—or even presumed to be—propriety trading. For example:

- One of the most traditional roles of the ALM function is to manage the banking entity's carnings at risk—that is, the risk that changes in interest rates will affect in different ways the value of the firm's liabilities and assets, such as its deposits and loan portfolio. Banking entities must also manage the mismatches in the maturity profiles of their assets and liabilities, and generally do so through use of their investment securities portfolio, thereby adding more assets to their balance sheets. Hedging strategies to protect the banking entity's resultant net interest income and interest rate margins from interest rate and yield curve changes, as well as foreign exchange fluctuations, include the use of options and derivatives that must be booked in the market risk capital trading account. Furthermore, because these derivatives are hedging the interest rate volatility arising from continuous balance sheet changes, they often settle within 60 days.
- A banking entity must manage the value of its mortgage servicing right asset, a right to service mortgages it originates or purchases, and one of the most volatile, and interest rate sensitive, assets on its balance sheet. In order to protect the value of the mortgage servicing right asset, the firm must manage the interest rate risk by using, among other instruments, interest rate swaps. These swaps would be booked in the market risk capital trading account and because of the volatility associated with this asset, such interest rate swaps are often settled within 60 days.

- Because the AFS investment securities portfolio of a banking entity is generally held for a
 long-term time horizon, it is often necessary manage the credit risk associated with these
 securities. To do so, the banking entity may buy protection in the credit default swap
 markets. The credit default swap is likely to be included in the entity's market risk capital
 trading account, and because of volatility in markets at any given point in time that is
 giving rise to the credit concerns of the underlying credit, these credit default swap
 positions may be settled within 60 days.
- Finally, a new type of volatility may be introduced to a firm's balance sheet as a result of the proposed capital rules under Basel III, which require capital to be held against certain positions in the Other Comprehensive Income ("OCI") Account (a component of stockholders equity). To In order to protect the banking entity's capital position from the excessive volatility that could arise in OCI from movements in interest rates or changes in the credit spreads, the firm may choose to hedge such volatility through the use of options, swaps, or other non-AFS instruments. Derivatives used as part of these hedging transactions will be booked in the market risk capital trading account and, because of the type of volatility they are hedging, may settle within 60 days.

In the above examples, derivatives trades that may be settled within 60 days are being used for prudent asset-liability management purposes. Under the statutory language, a "trading account" comprising the short-term derivatives described above and used to manage the banking entity's risks is not covered, as the purpose of each of the trades is to protect the firm from movements in interest rate, changes in credit conditions, or other market risks affecting the value of one of the firm's assets or liabilities; the purpose is not to profit from short-term price movements. Nonetheless, under the proposed rule, because of their short-term nature, these positions are presumed to be prohibited proprietary trading. This presumption is counterfactual, and the outcome under the proposed rule is inconsistent with the statute. Furthermore, as discussed below, the use of these strategies may not get the benefit of the risk mitigation exception or the liquidity management exclusion of the proposed rule because of the limited nature and restrictive conditions set forth in such exceptions. Thus, the ability of a banking entity to manage the structural risk of its balance sheet would be adversely and improperly affected.

We also note that while we believe the market risk capital test will cover some of these valid ALM strategies (and some hedging strategies employed in our investment bank), we actually do not know, because the market risk rules under Basel IL.5 have not been finalized. In this regard, it is particularly difficult to determine the application of these market risk rules to the Volcker Rule proposed rule as: (1) many banking entities, including the Firm, are still very much in the process of analyzing the proposed market risk rules in order to determine which types of assets and liabilities would be deemed to be "trading positions" and what types of

¹⁶ We strongly oppose this proposal for other reasons. <u>See</u>. Letter of The Clearing House Association, dated October 27, 2011. http://www.theclearinghouse.org/index.html?f=073030.

positions would be deemed to be "covered positions" under the proposed rules, and thus it is not possible at this time to determine how ALM activities will be impacted by the interplay of these two sets of proposed rules; (2) it is not certain when the proposed market risk rules will become final, and thus, under which set of "market risk capital" tests a banking entity will be subject at the time the Volcker Rule proposed rule become final; and (3) the types of documentation and compliance regimes necessary to establish compliance with the proposed rules may differ depending upon which set of proposed market risk capital tests is in effect at the time the Volcker Rule proposed rule becomes effective.

C. Deficiencies in the Risk Mitigation Hedging Exemption

The statute contains an exemption for risk-mitigating hedging activity, and some ALM activity would qualify for that exemption. However, the exemption appears to contemplate the type of hedging that occurs when a market intermediary enters into transactions to hedge its risk with customers or to meet anticipated demands of customers. In contrast, management of balance sheet and other risk requires extensive forecasting and stress tests so that the ALM function can position its portfolios to manage against anticipated risks. Thus, as currently drafted, the exemption would fail to protect—or, to much the same effect, leave in doubt the protection of—numerous legitimate ALM hedging activities. The same is true with respect to hedging done in our investment bank at a more micro level.

1. The conditions necessary to satisfy the exemption are too restrictive

As further illustrated below, the exemption for "risk mitigating hedging" is too restrictive and would not enable the broad range of actions that are required to manage the full complement of risks associated with a firm's balance sheet.

- (i) "actions in connection with and related to." The proposed rule contains language indicating that a risk-mitigating bedge may only be used to mitigate risks to which the firm is already exposed. Anticipatory hedges are permissible only when the hedge is "established slightly before the banking entity becomes exposed to the underlying risk." But appropriate risk mitigation activities often require that hedges be placed when it is likely that the firm will be exposed to the risk. The purpose of stress tests is to inform the firm about risks to which it may become exposed, and it is prudent for the firm, based upon that information, to take risk-mitigating actions. Further, it is impossible for any firm to perfectly anticipate the market moves that may adversely affect the entity's assets and liabilities. Thus, no mater how sophisticated the stress tests or ALM analysis, flexibility is required with respect to the timing of the establishment of the hedges. In addition, depending on the size, scale and complexity of a particular institution's positions relative to the depth and liquidity of the underlying instruments' markets, safety and soundness considerations may require that the firm establish the positions over a period of time so that such transactions do not disrupt the markets.
- (ii) "reasonably correlated." The proposed rule requires that a hedging transaction be "reasonably correlated" to the risk being hedged and provides that if the hedge and related position "would result in the banking entity earning appreciably more profits on the hedge

than it stood to lose on the related position," the hedge would likely to be deemed a proprietary trade.

These requirements could disqualify numerous legitimate hedging activities, as there are several reasons why a banking entity may earn appreciably more on a hedge position than it stands to lose on the related position—and yet, not be engaged in prohibited proprietary trading

First, ALM positions may create profits that would not be offset, at least in an immediate profit-and-loss context, by losses in the underlying risk position. For example, derivative hedge positions may be marked to market (thereby creating P&L impact through the income statement), while the underlying position, such as a loan, is booked using accounting (and thus would not give rise to a contemporaneous, offsetting P&L effect).

Second, precise correlations amongst and across different asset classes used in asset-liability management are difficult to determine. For example, the excess structural liability sensitivity arising from customer deposits creates a need for asset sensitivity on the balance sheet. A traditional ALM strategy to hedge such liability sensitivity is to purchase AFS investment securities. In these instances, as the characteristics of the hedge instrument are somewhat different than those of the underlying position, the hedge will react somewhat differently than the underlying position to the same market conditions and hence, generally, but not necessarily precisely, correlate to the underlying risk.

Third, maintenance of correlations at both the initiation and at the close of a hedging strategy may not be possible due to the fluid and convex nature of the balance sheet, as well as the liquidity of the market. As noted above, depending on the size, scale and complexity of the positions being established or unwound, flexibility is needed so the hedge or its unwind does not adversely affect the safety and soundness of the banking institution nor disrupt the markets. During these periods, therefore, high correlations will be more difficult to maintain.

Once again, this condition for the hedging exception appears to have been drafted with trading desks in mind, where both sides of a hedge are marked to market. It is a poor fit with ALM.

(iii) "significant exposures that were not already present." The proposed rule requires that the hedging transaction not give rise to "significant exposures that were not already present" in the underlying position.

The proposed rule gives over-hedging as an example of prohibited proprietary trading. But in the ALM context, the inability to accurately forecast future outcomes requires that there be adequate flexibility for the estimation of—and hedging in respect of—such estimated future structural risks. In addition, as the probability of certain market and economic outcomes changes over time, the over or under hedging measurement will change relative to the underlying risk position.

Separately, and as importantly, asset-liability management strategies may often use instruments that will expose the banking entity to a risk that is itself not present in the

underlying position – and, thus give rise to an exposure "that was not already present." In the example noted above, the use of an investment securities portfolio to manage the structural risk arising from customer deposits gives rise to basis risk.

2. ALM activities that were crucial during the financial crisis would have been endangered by the proposed rule.

Below are several examples of asset-liability hedging strategies employed by JPMorgan during the crisis that enabled it to successfully deal with the market, credit, interest rate, and liquidity risks that arose during that period. Some of these activities could be deemed prohibited proprietary trading under the proposed rule, and would not seem to fall within the risk-mitigating hedging exception:

Hedging the volatility and interest rate risk of the mortgage servicing right asset: In the days preceding Lehman's Chapter 11 filing on September 15, 2008, a review of IPMorgan's mortgage servicing right asset indicated that it was at significant risk for loss of value under some of the Firm's risk scenarios. Because the mortgage servicing right is very interest rate sensitive, a spike in volatility from falling rates would have increased the convexity of the mortgage servicing right asset and resulted in the Firm ending up with a large open, unhedged, risk position. Also, a counterparty default, even taking into consideration the collateral held by the Firm to mitigate the counterparty risk, would have deprived the Firm of the benefit of option positions previously entered into as protection. Accordingly, in anticipation of a possible counterparty default, the Firm determined it would be prudent to purchase additional options, in excess of its then open risk positions, in order to protect the Firm against "wrong way" market and counterparty risk. After the events about which we were concerned actually occurred, the Firm sold the excess coverage, which resulted in gains for the Eira

Under the proposed rule, this activity could likely have been deemed prohibited proprietary trading (as the derivatives involved in the hedging strategy were booked in the market risk capital trading book) and may not have qualified as hedging because (1) the actions taken were forward looking and anticipatory nature; (2) the purchase of additional hedges could have been deemed over-hedging; and (3) the gains realized upon the unwind of the hedges could have been deemed "appreciably more profits on the hedge than [we] stood to lose on the related position."

Managing credit risk by use of use of credit derivatives: Leading into and throughout the crisis, the Firm closely monitored its credit portfolio to assess how the market events that were unfolding might affect its balance sheet and structural risks. Analysis indicated early stress conditions in the credit markets, and we were therefore concerned that more scrious and accelerated underlying credit deterioration was occurring in the short term than was generally reflected in market prices. (The general market view was reflected in the high-yield credit spread curve which was, at the beginning of the crisis, very steep, indicating that that the market believed that companies would likely not default in the short-term, but that severe credit losses were more likely to occur in the long term as the crisis continued in duration.)

To protect the Firm against credit losses that, based on its analysis, the Firm perceived were possible to occur in the near term, the Firm's ALM team used credit derivatives to purchase protection on high yield credit default swap indices with short term maturities and to sell protection on high yield credit default swap indices with longer-term maturities—in effect, taking a high yield curve flattening position in the credit derivatives market. This strategy resulted in the Firm recognizing some gains as near-term default risks increased. The gains recognized on these derivatives strategies offset in part the losses that occurred on credit assets held by the Firm.

Under the proposed rule, this activity could have been deemed prohibited proprietary trading. The derivatives used in the hedging strategy were booked in the market risk capital trading account and may not have qualified as hedging because: (1) the actions taken were forward-looking and anticipatory; (2) the Firm's purchases of the credit derivatives may not have been deemed "reasonably correlated" with the underlying risk, as different instruments were used to effect the hedging strategy than the assets giving rise to the risk; and (3) the gains realized upon the unwind of the hedges could have been determined to be larger than the countervailing risks.

Managing deposit inflows by purchasing highly liquid securities: As the crisis unfolded, JPMorgan experienced an unprecedented inflow of deposits (more than \$100 billion) reflecting a flight to quality. The Firm was faced with determining how to invest this excess cash, and how to earn a sufficient rate of return on these deposits in an extremely low-rate environment, so that it could pay interest on these funds without losing money—or needing to turn its customers away, which not only would have been bad business for us but destabilizing for the system. The Firm took several actions: it lent the excess funds in the inter-bank market, thereby helping to recirculate available liquidity to other financial institutions. But it also invested in both long-term and short-term highly liquid investment grade securities morder to obtain a rate of return sufficient to protect the Firm from compressing margins on its deposit base. Although the preponderance of the securities purchased were booked as AFS securities, many of the shorter-term securities were booked in the Firm's market risk capital rading account. The purchase of shorter-term securities were because the Firm was not sure how sticky (or long term in nature) some of these deposits would be, and wanted to avoid an asset-liability mismatch. And some AFS securities were purchased and sold within 60 days as a prudent hedging response to the dynamic nature of the cash flows, and in order to manage the fluidity of the cash flows and the interest rate volatility and sensitivities such cash flows were creating. Use of this strategy enabled the Firm to protect itself against losses, helped its clients earn interest on the funds they had deposited with the Firm and recycled funds back into the wholesale markets.

Under the proposed rule, some components of this strategy could have been considered (or presumed to be) prohibited proprietary trading. Some securities were booked in the market risk capital trading account (or purchased and sold within 60 days), and would not have qualified as hedging because (1) the Firm's purchases might have been deemed to be a hedge that gave rise to a "risk that was not already present" on the Firm's balance sheet; (2) the

hedge securities may not have been deemed a hedge that "reasonably correlated" with the underlying risk (not only for the reason noted hefore, but also because the pace of the purchases or sales of hedge securities may not have matched precisely the pace of deposit inflows and outflows) and (3) the Firm's eventual sale of such securities resulted in gains that could have been considered outsized to the risk being hedged (in part because that risk could not be quantified).

Managing the value of the Firm's assets and liabilities by purchasing expanded types of investment securities: By early 2009, it had become apparent that additional ALM action was required. The credit environment had deteriorated further, and the Firm's management was forecasting a significant economic slowdown that was likely to lead to a lower interest rate environment. In addition to the significant influx of deposits the Firm was experiencing, the Firm's management was predicting lower loan demand, resulting in a significant structural balance sheet mismatch between assets and liabilities. In anticipation of these conditions, the Firm's ALM team undertook an evaluation of the Firm's investment securities portfolio and determined it would be prudent to increase the size and duration of the portfolio, as well as to increase diversification of the portfolio. Thus, in addition to agency MBS securities, which were the securities traditionally held by the investment securities portfolio, ALM activities expanded in scope to include other highly liquid securities. But, as the market dislocation associated with the crisis increased and credit spreads continued to widen, the portfolio was further expanded to include other top-of-the-capital structure securities and certain types of structured credit products to bring the asset-liability sensitivity of the Firm more in balance. This increased purchasing continued over several quarters of 2009. While the preponderance of the securities purchased were booked as AFS securities, the expanded strategy also involved the purchase of certain securities and derivatives that were booked in the Firm's market risk capital trading account and, as a prudent response to the volatility in the credit markets, sometimes necessitated the purchase and sale, within 60 days, of AFS securities. This active—and proactive—positioning of the Firm's ALM portfolio during the period enabled the Firm to manage successfully a balance sheet that was experiencing significant changes in volumes in its assets and liabilities with resulting interest rate volatility and sensitivity, and provided the Firm with a partial hedge against the changing market value of

Under the proposed rule, some aspects of this strategy could have been prohibited, for basically the same reasons described with respect to other strategies. As these examples demonstrate, JPMorgan's ALM activities during the crisis involved pro-active management of the risks associated with its balance sheet. Many of these actions needed to be taken quickly, while many others required significant purchases or sales of securities over a period of time—as large purchases or sales needed to be managed in a way that was consistent with safety and soundness and without dislocating markets.

The actions taken by the Firm's ALM team led to significant changes over the two-year period in the size, maturity profile, and composition of the Firm's investment securities portfolio. All of these actions, irrespective of whether the securities and instruments

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purchased and sold were accounted for as AFS investment securities or booked in the market risk capital trading account, were effected in order to protect the value of the assets and liabilities on the Firm's balance sheet, and not for the purpose of earning profit from short-term price movements. Under the proposed rule, it is at best unclear whether we could take similar actions to protect ourselves in the future. Thus, many of the most prudent, useful and successful strategies utilized by the Firm during the crisis could bave been prohibited under the proposed rule. As discussed below, we believe there are more appropriate ways to ensure a prudent and effective operation of an ALM function, while at the same time ensuring sufficient safeguards are in place so that the statutory prohibition on proprietary trading set forth in the Volcker Rule is not evaded.

D. Inapplicable Elements of the Risk Mitigation Hedging Exemption

1. The Metrics Required to be Applied are Meaningless When Applied to Legitimate ALM Activities

The proposed rule requires five metrics to be applied to "risk mitigating hedging activities;" accordingly, under the proposed rule, ALM transactions that are booked in the entity's market risk capital trading account would be subject to these metrics. These measures include VAR, Stress VAR, VAR Exceedence, Risk Factor Sensitivities, and Risk Position Limits. It is true that VAR and these other metrics are used by the Firm in respect of the portion of the ALM portfolio which is marked-to-market. However, the purpose for such tests is to enable the Firm to understand the potential loss that could be incurred by these positions as a result of immediate changes in market rates – but not to determine the efficacy of the ALM bedging activity. And, while asset-liability risk management does use risk factor sensitivities and risk position limits in managing the risks associated with the portfolio, these metrics likewise do not help distinguish ALM activities from prohibited proprietary trading activities. Accordingly, while these metrics are used in risk management, they are of no use in distinguishing valid risk mitigating hedging activities from prohibited proprietary trading.

Most significantly, the application of the VAR-based measures to assets held by an ALM function would be extremely misleading. This is because many of the liabilities being managed, such as deposits, are not marked to market but, rather, are accounted for on an accrual basis. This accounting asymmetry means that while the VAR-based metrics will capture the changes in value of the ALM position, these metrics will not reflect the offsetting risk in the underlying structural balance sheet of the company—in essence, the VAR-based metric will be measuring only one side of the equation, not both. Accordingly, VAR measures will not gauge the extent to which the ALM position is actually offsetting the risk it is hedging. This accounting asymmetry renders the application of these metrics to ALM activities meaningless for Volcker Rule purposes.

2. The "Simultaneous Documentation" Requirement Is Overly Onerous and Not Necessary to Distinguish Proprietary Trading from Legitimate ALM Activities

The heavy documentation requirements for risk mitigating hedging activities are unrealistic and the requirement for contemporaneous documentation is unworkable. The proposed rule requires that for any risk mitigation hedging transactions "established at a level of organization that is different than the level of organization" establishing the positions, the entity must document "at the time" of the transaction (1) the purpose of that hedge transaction; (2) the positions the hedge is designed to reduce; and (3) the level of the organization that is establishing the hedge.

The significant documentation requirement imposed on the ALM function—which, by definition, is carried out on a desk that is different from the market-making desks giving rise to the risk or the operating business that is giving rise to the underlying credit or structural liability risk—means that ALM functions will de facto be subject to the unworkable documentation requirements of the proposed rule. Because the ALM function looks at the balance sheet in a macro, holistic way, determinations as to hedging strategies are generally developed by an investment committee that determines what risks the entity is being exposed to, and how best and how much to hedge them. The person executing the hedging position on behalf of the ALM function may not know the precise origin of the risk being hedged at the time of hedge execution. The unworkability of the documentation requirement becomes even more extreme in the context of necessary anticipatory hedging. Because hedging is dynamic and needs to be responsive to market conditions, the requirements that such documentation he "contemporaneous with" the establishment of the hedge, and that there be detailed documentation identifying the exact positions – or even portfolios of positions – that are intended to be hedged could inadvertently delay managers from establishing the very hedges required to maintain safety and soundness. This tension will be particularly acute during volatile market conditions – precisely when safety and soundness and market stability argue for quick action.

Further, it is unclear what benefits these additional documentation requirements provide, and how they would differ from or be supplemental to the policies and procedures that are already employed by a firm's ALM function. It is not clear that the appropriate and already robust policies and procedures that are in place in a firm's ALM function do not suffice. Because ALM functions should be given the same deference and latitude that the proposed rule accords the liquidity management function (at least in respect of the documentation requirements applicable to both activities), there is no reason that the documentation conditions that the proposed rule deems sufficient for liquidity management should not likewise be deemed sufficient and appropriate for transactions executed in furtherance of bona fide ALM activities.

In summary, given the restrictive and unworkable conditions required to be met for the "risk mitigating hedging" exemption of the proposed rule, it will be impossible for risk managers to know at the outset what may be deemed exempted and what may not. This attendant

uncertainty will chill the taking of appropriate actions and impair the exercise of this important function, thereby undermining a crucial safety and soundness function, often at times when it is most required.

E. The Liquidity Management Exclusion

While the proposed rule properly excludes liquidity management activities from the definition of trading account (thereby acknowledging that these activities are not for the purpose of selling in the near term or with the intent to resell in order to profit from short-term price movements), it nonetheless fails to fully implement the FSOC's finding that liquidity management activities must fall outside the Volcker Rule's definition of proprietary trading. That is because the proposed rule has so narrowly circumscribed the scope of excluded "bona fide liquidity management" activities that only a fraction of a firm's liquidity management activities will qualify for this treatment and, thus, the remainder could be prohibited by the Volcker Rule as impermissible proprietary trading. This result cannot be intended.

In particular, the following conditions that must be met in order to obtain the benefit of the exclusion present serious obstacles to effecting a legitimate and prudent liquidity management function:

(i) "near-term" funding needs: Prudent liquidity management is responsible for ensuring that the entity is able to meet its commitments not only over the "short term" - but also over "medium-term" and "longer-time" horizons. In fact, the banking regulators' 2010 Interagency Policy Statement on Funding and Liquidity Risk Management ("Liquidity Risk Policy")", requires firms to "ensure that their vulnerabilities to changing liquidity needs and liquidity capacities are appropriately assessed within meaningful time horizons, including intra-day, day-to-day, short-term weekly and monthly horizons, medium-term horizons of up to one year, and longer-term liquidity needs of one year or more." "8

The consequence—which we believe must be unintended—of this near term requirement is to label any liquidity cushion of liquid securities held by the firm in excess of its "near-term" funding needs as prohibited proprietary trading. That is because under the proposed rule only the portion of the liquidity cushion that would meet a firm's "near term" funding needs will qualify for the liquidity management exclusion; the balance of the securities held as part of the liquidity cushion (which generally would be securities held in a market risk capital trading account) could be deemed prohibited proprietary trading. The result will be to limit prudent liquidity management practices and likely result in making banking entities less safe and less sound and the U.S. and global financial systems more vulnerable to liquidity stresses.

^{7 &}quot;Interagency Policy Statement on Funding and Liquidity Risk Management" Office of the Comptroller of the Currency; Board of Governors of the Federal Reserve System; Federal Deposit Insurance Corporation; Office of Thrift Supervision; and National Credit Union Administration, Fed Reg. Vol. 75, No. 54, 13656, March 22, 2010.

⁷⁸ Id. at 13663.

(ii) positions be "highly" liquid: It is imprudent for all of a firm's liquidity management positions to be invested only in highly liquid securities because prudent liquidity management requires appropriate asset allocation. Firms often invest their surplus funds in commercial paper, certificates of deposit, short-term loans, interbank deposits, Fed Funds and other similar instruments of creditworthy issuers, because these instruments, used in varying amounts at varying times, provide liquidity managers with the necessary flexibility to address the changing liquidity profile of the firm. Frohibiting the use of these types of instruments would be inappropriate for several reasons.

First, the liquidity of instruments changes from time to time in response to market conditions and thus, determining whether an instrument is highly liquid or merely liquid will be a facts and circumstances determination, depending on market conditions at any given point in time. Second, banking entities' investment in commercial paper, short-term loans, interbank deposits and other similar products is an important way to recirculate available liquidity to help provide funding to others. Thus, prohibiting banking entities from investing their excess liquidity into these instruments would be detrimental to the safety and soundness of the entire banking system. Third, liquidity is not indicative of whether the purpose of a trade is short-term profit — and thus, it is not clear why or how this requirement furthers the intended purpose of the Volcker Rule.

- (iii) positions not give rise to "appreciable profits": The fact that a particular investment bears a higher rate of return than another does not convert the purpose of that investment from proper liquidity management to impermissible proprietary trading. In addition, concluding whether any particular liquidity management transaction creates impermissible "appreciable" profits is so subjective and uncertain a determination that it will only inhibit and impair the proper management of this important function.
- (iv) "specifically...authorize...the circumstances in which the particular instrument may or must be used." Liquidity management is a dynamic process, never more so than during periods of stress. It is a process that, by definition, requires continuous measurement and monitoring—and being able to take steps quickly to address any funding gaps (that is, any gaps between the timing of liquidity sources and liquidity uses). Because of the on-going nature of the reviews routinely performed by the function, and the breadth of the instruments taken into consideration depending on market and economic conditions at any point in time, requiring that the liquidity plan specifically detail the circumstances in which a particular instrument is to be used is too constrictive a condition to permit the proper functioning of a bona fide liquidity management function.

In summary, many bona fide liquidity management activities would not be permitted under the proposed rule's exclusion. The restrictions will not permit the function to operate within a framework that is flexible enough to allow banking entities to manage their liquidity risks in prudent ways. As a result, the exclusion as currently set forth in the proposed rule could undermine banking entities' safety and soundness.

F. Alternative approach

The final rule should establish an exclusion from the definition of trading account for bona fide asset liability management, which would include and encompass bona fide liquidity management. Like the currently proposed exclusion for bona fide liquidity management, the ALM exclusion would be conditioned on meeting several criteria that are consistent, and in some instances go further than, those already included in the proposed rule. Such an exclusion is fully consistent with the language, purposes and history of the statute.

We therefore propose that there be an exclusion for any transaction effected for bona fide asset-liability management done in accordance with a firm's documented ALM policy that:

- Authorizes the particular instruments to be used for ALM and liquidity purposes, and
 describes the types circumstances under which such instruments would generally be
 expected to be used:
- Authorizes the hedging strategies for use in ALM activities or for addressing the liquidity needs of the firm as the macroeconomic and market environments change;
- Requires that any transaction contemplated and authorized by the plan be principally for
 the purpose of managing the balance sheet exposures and liquidity risks of the covered
 firm, and not principally for the purpose of short-term resale, benefitting from actual or
 expected short-term price movements, realizing short-term arbitrage profits, or hedging a
 position taken for such short-term purposes;
- Requires that the ALM and liquidity portfolios he managed within appropriate controls
 documented in the ALM policy;
- Limits any positions taken for ALM or liquidity purposes to amounts that are consistent
 with the firm's balance sheet management and liquidity needs as defined in the ALM
 policy;
- Is consistent with all applicable regulatory guidance regarding asset-liability and liquidity management;
- · Is approved by the firm's board of directors;
- Requires that the compensation arrangements of persons performing the ALM and liquidity management activities be designed so as not to reward proprietary risk taking;
- Requires that the firm shall have established a compliance and audit regime designed to
 ensure compliance with the rule; and

 Requires that the management of the ALM and liquidity management function (including its employees and officers) be separate from the primary dealer and market-making trading functions.

Under this construct, the agencies would have considerable assurance that ALM functions were being properly conducted, but financial institutions would retain the crucially important flexibility to manage their risks in appropriate and prudent ways. That is because under a properly organized, managed and supervised ALM function it would be difficult—if not impossible—for a proprietary trading desk or function to be secreted or camouflaged within an ALM function. First, and foremost, because the ALM function is grounded in managing the structural risks of the enterprise, the banking entity would need to be able to demonstrate that each of the ALM strategies it undertook was in response to the results of stress tests or internal analysis conducted by the firm of its balance sheet risks. Each desk effecting ALM hedging strategies would need to be able to demonstrate how its activities are supervised, and that its transactions were within the defined mandates and limits established by its managerswho likewise would need to be able to demonstrate that those mandates and limits were directed by and were part of the ALM strategy established by the firm's ALM management. ALM management would need to be able to demonstrate that the instruments and strategies utilized by the various hedging personnel were established by it and were part of the written ALM plan and procedures, and that all of the ALM activities were reported to and monitored by the entity's independent risk management function. The entity would need to be able to demonstrate that the written plan and procedures were authorized by the entity's board of directors, and that its internal risk, compliance and audit personnel, independent of the ALM function, had performed adequate monitoring and testing of such processes and procedures to establish that the activities were in fact in compliance with the plan. And, as a further disincentive to proprietary trading occurring within the ALM function, the persons effecting ALM transactions would not be compensated to do so. Lastly, and not insignificantly, the banking entity would also know that its ALM activities are subject to regulatory examination and review. Thus, we believe the exemption would require that there exist within the ALM function managerial and supervisory structures to ensure that the function is being properly performed and appropriately controlled.

By proposing this exclusion we do not suggest that ALM activities be exempt from examination on safety and soundness grounds. Rather, as stated above, we fully expect robust examination and supervision to continue in the future. As noted in the introduction, we also note that draconian capital requirements on all trading positions, including those held for ALM purposes, are already a potent safety and soundness guarantee, as well as unfortunately a disincentive to engage in the activity.

We acknowledge it is always possible that a rogue trader situation can occur—but, as we note in the Overview, there appears no justification to promulgate a rule that presumes from the outset that covered entities would intentionally work to evade the rule.

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We thank the agencies for their consideration of our comments. If you have any questions, please do not hesitate to call me at 212-270-0593.

Sincerely,

Barry L. Zubrow Executive Vice President

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Appendix A

Compliance Program for Foreign Funds

Appendix C, Section II of the proposed rule would be amended to add a new Subsection C, as follows:

C. Foreign Fund Activities or Investments

A covered banking entity must establish, maintain and enforce written policies and procedures that are reasonably designed to document, describe, and monitor the covered banking entity's sponsorship activities with respect to, or investments in, funds organized and offered outside the United States (such funds, "foreign funds"), as follows:

Analysis of Foreign Funds: The covered banking entity's policies and procedures must specify how each foreign fund that the covered banking entity sponsors, organizes and offers, or in which the covered banking entity invests, will be analyzed to determine whether such foreign fund is a covered fund pursuant to § __10(b)(1). Such policies and procedures must provide that such analysis be appropriately documented and reported to management of the covered banking entity. To the extent that a foreign fund is determined not to be a covered fund, the following compliance program elements will apply.

Records Regarding Foreign Funds that are not Covered Funds: For foreign funds that are not covered funds and that the covered banking entity sponsors, organizes and offers, or in which the covered banking entity invests, the covered banking entity's written policies and procedures must specify that the covered banking entity maintain records that are sufficient to identify, as applicable:

- · A description of each foreign fund (e.g., prospectus).
- For each foreign fund, a record that notes the basis upon which the covered banking entity has determined that the foreign fund is not a covered fund pursuant to § ___10(b)(1)(iii), including the following elements:
 - o jurisdiction of organization;
 - \circ jurisdiction of registration or regulation;
 - o each jurisdiction in which a public offering of the foreign fund's ownership interests has been made, or is intended to be made, and, with respect to funds that are publicly offered and listed on a foreign securities exchange, the percent of the foreign fund's ownership interests represented by such listing, or that are intended to be represented by such listing;

- o how frequently investors are permitted to redeem their ownership interests and how frequently a net asset value, or its equivalent, is calculated; and
- o the securities exchange upon which the foreign fund's ownership interests are listed.
- The nature of the covered banking entity's sponsorship activities with respect to
 each foreign fund; and
- The date and amount of each investment by the covered banking entity in each foreign fund.

Ongoing Compliance of Investments in Foreign Funds that are not Covered Funds: The covered banking entity's policies and procedures must specify how each foreign fund in which a banking entity maintains an ownership interest will be reviewed regularly to determine whether such foreign fund has become a covered fund pursuant to § __10(b)(1). With respect to foreign funds that are later determined to be covered funds, the covered banking entity's policies and procedures must also specify how the banking entity will ensure investments in such foreign funds will be brought into compliance with § __11 and the other provisions of Part [], as applicable.

JPMORGAN CHASE & CO.

MINUTES

MEETING OF THE RISK POLICY COMMITTEE

March 26, 2012

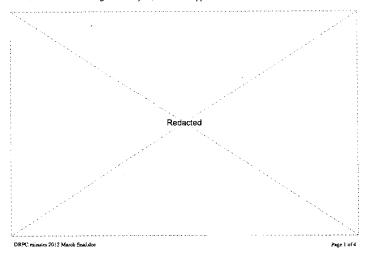
Risk Policy Committee

Others Present

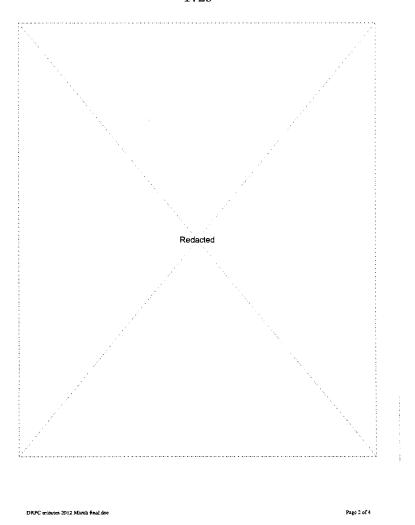
James S. Crown, Chairman David M. Cote Ellen V. Futter Ashley Bacon Douglas L. Braunstein Paul Compton Donna Dellosso Robin Doyle Ina Drew Mary Ellen Egbert Irvin J. Goldman Margaret M. Hannum John J. Hogan
Daniel McDonagh
Patrick McKenna
Samuel T. Ramsey
Donna Reino
Steinar Zinke
Barry L. Zubrow
Gregory A. Baer, Secretary

Mr. Crown convened the meeting at 7:30 am. The meeting commenced with Committee members, Ms. Doyle, Ms. Egbert and Ms. Hannum and Messrs. Braunstein, Hogan, McKenna, Ramsey, Zinke, Zuhrow, and Baer in attendance. Mr. Hogan then introduced new members of the Risk Management Team: Donna Dellosso, Patrick McKenna and Steinar Zinke to the Committee.

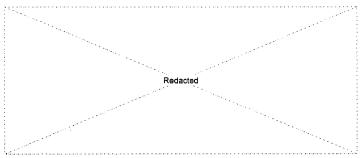
The minutes of the meeting on January 17, 2012 were approved.



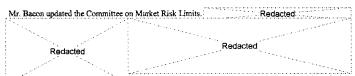
CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN & CO. JPM-CIO-PSI 0013563



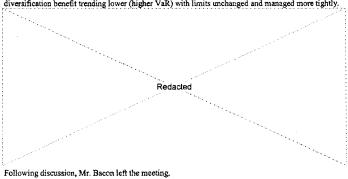
CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN & CO. JPM-CIO-PSI 0013564



Market Risk Limits

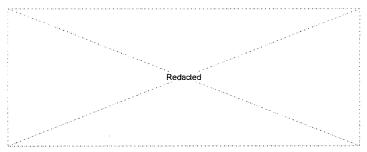


The CIO VaR limit was raised temporarily in anticipation of QR's approval of the mortgage prepayment model leveraged by the MSR and SPG's mortgage related portfolios. The CIO Risk Committee reviews Level 1 and Level 2 limits for each business on a monthly basis. He stated that the position changes in the second half of 2011 resulted in VaR diversification benefit trending lower (higher VaR) with limits unchanged and managed more tightly.



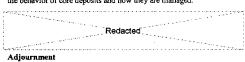
DRPC minutes 2012 March linal doc Page 3 of 4

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CIO Review

Ms. Drew and Mr. Goldman provided a review on CIO. They discussed the structural risk summary noting that the structural risk net liability position projected by LOBs continues to grow driven by modest asset growth, continued deposit inflows, long term debt issuance and retained earnings. Ms. Drew noted that the structural investment portfolio allocation trending toward 50% rates, 50% senior credit. Subject to capital ratios, the CIO will continue a portfolio rotation into senior top of the capital structure credit. Ms. Drew described how rising or falling interest rates would affect the company, and how CIO manages that risk. In response to a question from Mr. Cote, she and Mr. Goldman described the behavior of core deposits and how they are managed.



There being no further business, the meeting was adjourned.

Gregory A. Boer, Secretary

DRPC minutes 2012 March final doc

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Confidential

Risk Management
General Market Discussion

Directors Risk Policy Committee March 20, 2012

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Topics for Discussion	Comidenti
Wholesale – 30 Minutes	Consumer – 15 Minutes
Investment Bank (IB)	Consumer
Executive Summary	■ Executive Summary
■ Euro Stress	 30-149 Day Non-Credit Impaired Delinquency
 Underwriting Scorecards 	■ Net Charge-Offs
	 Underwriting Scorecards
Commercial Bank (CB)	- Card Services
Executive Summary	- Auto Finance
Underwriting Scorecards	- Mortgage Banking
	- Business Banking
Asset Management (AM)	
Executive Summary	Exhibits
Key Risk Topic - Money Market Funds	 Treasury & Securities Services
■ Underwriting Scorecard	Selected Key Product Metrics
· · · · · ·	 Operational Losses – Full Year 2011
Treasury & Securities Services (T&SS)	Credit Risk Profile
■ Executive Summary	
	■ Consumer
Chief Investment Office (CIO)	 Earnings Estimate
Executive Summary	Card Services Overview
	Auto Finance Overview
	 Mortgage Banking Overview
	 Business Banking Overview

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Reducted by the Permanent
 Subcommittee on Investigations

Structural inferest rate ris of loan origination on the						(spreads to acco	unt for lack
Revenue New Inth New		2012 Forecast Full Year	2012 Plan Full Year	spreads Integration of framework (r	k position remains sh f AFS securities portf eflected in table belo uctions are in the pip	olio into firmwide s w).	itress
BOLI (General Welfare Revenues) Total Revenues					Credit Crisis (credit sellati	,	
Expense Compensation				Stress Testing (mm U	50) rates (ally)	Dir	(015
Non-Comp & Allocations						Positive benefit from t	
Total Expense Meno: Expense (excl. FX Hidging / IC / RF)			i i	CIO MTM	510	bank preferreds and 0	LOs
provisions				CIO SAA AFS			
Pre-tax Income				CIO SAA Liabilities			
fax Expense				SIO SAA DEDINAS	No.		
let income				X Capital Hedging			
				CRP			
ley Statistics							
Net Capital First noise ROE				TOTAL			
OCI (pre-tant) (Son)							
Efficiency Ratio (excl. FX Hedging / IC / RP)	-				Structural Risi		
					Firm DoE (excludes credit	spread) (5.3)	
					Credit spread investments	2.9	
					Firm DoE (includes credit)	(2.4)	

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From: Bacon, Ashley

Sent: Sun, 06 May 2012 20:57:24 GMT

To: Venkatakrishnan, CS <cs.venkatakrishnan@jpmorgan.com> Subject: Re: CIO Credit Collateral differences as of COB Thursday 3rd

Yes - would be a good addition

From: Venkatakrishnan, CS Sent: Sunday, May 06, 2012 09:55 PM To: Bacon, Ashley Subject: Fw: CIO Credit Collateral differences as of COB Thursday 3rd

Shouldn't this be on daily risk report?

From: Bates, Paul T
Sent: Sunday, May 06, 2012 04:46 PM
To: Dimon, Jamie; Braunstein, Douglas; Hogan, John J.; Drew, Ina
Cc: O'Rahllly, Rob; Bacon, Ashley; Venkatakrishnan, CS; Vigneron, Olivier X; Macris, Achilles O; Martin-Artajo, Javier X; Wilmot, John
Subject: CIO Credit Collateral differences as of COB Thursday 3rd

CIO Credit Collateral differences as of COB Thursday 3rd

Total difference between CIO and the counterparties is now \$194mm vs. \$182mm prior day.

Largest Counterparty Difference: Morgan Stanley is now \$57mm vs. \$55mm prior day,

Largest Instrument Difference: Itraxx MN S09 10Y 22-100 is now \$34mm vs. \$38mm on the prior day.

CIO Credit Collateral differences as of COB Monday 7th

Total difference between CIO and the counterparties is now \$212mm vs. \$203mm prior day.

Largest Counterparty Difference: Morgan Stanley is at \$61mm – unchanged.

Largest Instrument Difference: Itraxx MN S09 10Y 22-100 is now \$27mm vs. \$24mm on the prior day.

Difference by counterparty:

Top ten differences by instrument:

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From: Youngwood, Sarah M <sarah.m.youngwood@jpmorgan.com>

Thu, 10 May 2012 22:35:32 GMT

Dimon, Jamie <jamie.dimon@jpmchase.com>; Braunstein, Douglas

CDouglas Braunstein@jpmorgan.com>; Drew, Ina <Ina.Drew@jpmorgan.com>; Staley, Jes <jes staley@jpmorgan.com>; Cutler, Stephen M <stephen.m.cutler@jpmorgan.com>; Evangelisti, To: Joseph <joseph evangelisti@jpmchase.com>; Lemkau, Kristin C < Kristin Lemkau@jpmorgan.com>; Miller, Judith B. <Judith B. Miller@jpmorgan.com>

CC: Investor Relations <Investor_Relations@restricted.chase.com>

Subject: 10Q call - Buyside and sellside comments (1)

See below re first few calls.

Brennan Hawken - UBS - Sellside

- Matt O'Connor said it all on the call when he mentioned this is not really a huge number is it stays there
- . Very commendable; the call was very transparent, above board, and something that you would expect JPM to
- · The market is reacting somewhat strongly
- · You will work your way out of it

Keith Horowitz - Citi - Sellside

- Feedback There's more going on here; "There are bad apples here." People are incented to make money and take risk"
- I think everyone appreciates you organizing a call

Mike Mayo - CLSA - Sellside

- What did Jamie mean when he said the loss "could be volatile?" Is it \$18 more?
- Is AOCI recognized in equity? Is
- Any impact on your capital plans?
- What is the purpose of the investment portfolio?
- Big issue/question: who was watching the CIO? Doesn't internal audit monitor this? CIO size? Volcker? Asset Management
- . Thank you for organizing the call

Matt O'Connor, Michael Carrier and David Ho - Deutsche Bank - Sellside

- How big is the synthetic credit book you are trying to unwind? Is the synthetic book included in the investment securities portfolio? How big overall is the CIO book? Are there numbers in the press that are reasonable?
- Where would the synthetic credit book show up on the consolidated balance sheet in trading assets? Is it under derivatives receivables?
- is all of your goodwill in the Corporate segment?
- Pretty big confidence blow for the best risk manager; very puzzling
- We may have to amend our FICC forecasts. Movements in credit spreads don't seem material, so to get tripped up now is surprising
- Were there any accounting changes?
- When I speak to clients, and they ask, "What got worse since after the quarter?" I'd say Europe, but what else got worse? What basket did you have? Using broad indexes, it just doesn't add up
- "Scary thing" I worry about if this could create a global issue
- How fast can you get out?

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You didn't do a call when you had a \$2.5B litigation loss;; I'm not worried about your earnings or book value, but I do worry about the message it sends

Beth Schulte – Capital – Buyside

- "Bravo, thank you for hosting the call"

 What exactly was the transaction that caused the problem?

 What event triggered the realization that the hedging was not working?
- When Jamie said you had a synthetic credit strategy to hedge your overall credit risk, what does that mean in laymen terms? Rather than sell-off the pieces, did you lay over additional strategy?
 Based on what Jamie said on the quarter, have you used up, as of 1Q12, any of the buybacks?

Sarah Youngwood | Managing Director | Head of Investor Relations | JPMorgan Chase Co. | 270 Park Avenue, New York, NY 10017 | T: 212 622 6153 | F: 212 270 1648|

From: Coombes, Hema S < hema.s.coombes@jpmchase.com>

Sent: Thu, 10 May 2012 18:03:05 GMT

O'Rahilly, Rob < Rob. O'Rahilly@jjpmorgan.com>; Bacon, Ashley < Ashley, Racon@jpmorgan.com>;
Venkatakrishnan, CS < cs.venkatakrishnan@jpmorgan.com>; Vigneron, Olivier X
< o'Rivier.x.vigneron@jpmorgan.com>; Mactis, Achilles O < achilles.o.macris@jpmorgan.com>; Martin-Artajo,
Javier X < javier.x.martin-artajo@jpmorgan.com>; Wilmot, John < JOHN.WILMOT@jpmorgan.com>; Lewis, Phil
<phil.lewis@jpmorgan.com>

Subject: CIO Credit Collateral differences as of COB Wednesday 9th May

CIO Credit Collateral differences as of COB Wednesday 9th May

Total difference between CIO and the counterparties is now \$120mm vs. \$144mm prior day

Largest Counterparty Difference: Morgan Stanley Capital Services is at \$58mm - up from \$54mm

Largest Instrument Difference: ITRAXX MN 509 10Y 22-100 is now \$20mm vs. \$23mm on the prior day

*Please note: Deutsche Bank AG is on a one day lag and showing the 8th May 2012

Difference by counterparty:

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 $\textbf{From:} \quad Youngwood, Sarah \ M < sarah.m.youngwood@jpmorgan.com >$

Sent: Fri, 11 May 2012 23:32:02 GMT

Dimon, Jamie <jamie.dimon@jpmchase.com>; Braunstein, Douglas

To:

| Couglas Braunstein@jpmorgan.com>; Drew, Ina <Ina Drew@jpmorgan.com>; Staley, Jes < jes.staley@jpmorgan.com>; Cutler, Stephen M <stephen.m. cutler@jpmorgan.com>; Cavanagh, Mike <mike.cavanagh@jpmchase.com>; Evangelisti, Joseph <joseph.evangelisti@jpmchase.com>;

Lemkau, Kristin C <Kristin.Lemkau@jpmorgan.com>; Miller, Judith B.

<Judith.B.Miller@jpmorgan.com>

CC: Investor Relations Investor Relations@restricted.chase.com

Subject: 10-Q call - Buyside and sellside comments (6)

Last series of calls this afternoon. We will summarize the key themes/questions over the week-end and will send the updated analyst targets/consensus information.

Andrew Marquardt - Evercore Partners - Sellside

- · What was the timeline?
- When did you change VaR model?
- What would have happened if we had not changed the VaR model?
- Would this change in strategy have happened had there not been a change in the new VaR model?
- Has the VaR model materially changed over the years? What is the process for the VaR model to change? Who is involved and how does it work?
- Have you already taken some action to help protect yourself from further loss (locked in loss)? It sounds like it's
 a little bit of action to lock in some potential losses and some market-to-market? Is that correct?
- How much additional collateral would you need to post if there was a downgrade? What is the other potential
 impact of downgrades?
- Jamie seems to be almost inviting/welcoming criticism/ additional scrutiny. Can we translate that in a high level
 of confidence that it is indeed an isolated issue? Is that a stretch? Am I reading into that too much?
- Can you comment on SEC/Fed/rating agency reactions?
- I was surprised at the reaction in the market today. Your goodwill is well earned. One incident should not raise
 the question of the risk management systemically because it is part of the business it's a buying opportunity
- I have heard both sides today from investors

Chris Kowasaki -- Alliance Bernstein -- Buyside

- Can you tell me how large the trades are?
- Will we get that detail?
- Any formal investigations?

John Starkling - Prospector Partners - Buyside

- Please explain the impact of a rating downgrade
- What are the triggers and how much collateral would you have to post?

Alex Hesse

- It was obviously a big surprise
- S&P and FITCH reactions and comments What is it going to do with the buyback? They are assuming 75% buyback in the 8-12 months – You are very close to edge. How much do you care about their rating?
- If you were downgraded by S&P you would lose your short-term rating

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- I know you can't tell me the exact positions but I think it's important to get a sense for potential sizing/loss impact
- How confident do you feel that the losses are within the reasonable range of expectation going forward?
- I just hope you can put out something over time that convinces people that this isolated
- If this can happen to you it can happen to others
- One could make the case that all the other banks could be down
- My point is it is very hard to grasp, anything you can put out over time that shows that we aren't hiring any more people or we're getting rid of the bad apples
- The reaction yesterday was bifurcated; you didn't do a call for the litigation expense. It is either: "You have high ethical standards and you apologize profusely for it, but this is isolated and contained" or "There are real issues"
 If we are in limbo until earnings call the worse thing is people will always assume the worse people will put
- you in the penalty box
- Executing on your buyback would be the strongest signal you can bring to the market at this time

Sarah Youngwood | Managing Director | Head of Investor Relations | JPMorgan Chase Co. | 270 Park Avenue, New York, NY 10017 | T: 212 622 6153 | F: 212 270 1648|

From: Youngwood, Sarah M <sarah.m.youngwood@jpmorgan.com>

Sent: Fri, 11 May 2012 20:12:07 GMT

Dimon, Jamie <jamie.dimon@jpmchase.com>; Braunstein, Douglas

Miller, Judith B. < Judith B. Miller@jpmorgan.com>
Investor Relations < Investor Relations@restricted.chase.com>

Subject: 10-Q call - Buyside and sellside comments (5)

Tone has changed. See below.

CC:

John Coffey - Wellington - Buyside

· Why did you feel compelled to disclose this now?

- How do we get comfortable with the dollar around? Jamie said \$1B a more
- How could the newspapers know about this before Jamie knew about this?
- What can you tell us differently at the end of this quarter that you told us yesterday? It will take some time I'm
 assuming to get out of these positions. How will you be able to give us any more details at the end of the
 quarter?
- The specialist believe they know what you have; why didn't you share more information with your shareholders
- How are the people in the office of the CIO compensated? There is some concern this is a prop trade as opposed
 to actual hedging
- · Can buy back stock today?

Beth Schulte -- Capital World -- Buyside

- The general assumption by the Street is that you were net short CDS on these trades; if you say you were
 hedging credit tail risk, how can you be net short CDS? That is inconsistent. Was being short CDS an overlay on
 another position as you tried to lower the other position?
- The anger from shareholders is that how did this "Whale" guy get so large? Where was the supervision?
- We asked when we met with CIO team in November and asked VaR related questions. Is the VaR in the IB now going to increase as well?
- What changes are going to be made in risk management? What controls have been tightened specifically? (PM
 at Capital wrote to Beth that he was "interested in taking advantage in buying the stock" but needs to know the
 answer to these questions)
- What has occurred in the credit market in the last 6 weeks that would make you change your hedge and result in such large losses?
 How do you come to us with a number when the whole world knows what trades you need to get out of? Can't
- this cause higher losses for you?

 There are people that are happy that the person who has done so well now has a black eye; people want to
- make money off of your mistakes

 Do you think at some point you will come out and describe the exact trade, the people who have been fired and
- specifically what happened?

 Does Jamie read the Zero Hedge Blog? Jamie should know this; Zero Hedge has outlined everything. He should
- have read it 6 weeks ago and walked over to Bruno and asked what is going on?

 When Jamie said he "should have been paying more attention" to the stories what does he mean?
- I know corrective action will be taken, but also know that you don't pay Ina \$15mm a year to just hedge deposit risk. There are a lot of fancy things going on in CIO

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· Would like to have a call with Doug

Alex Popa - Capital Research - Buyside

- Would like to try to have a call with Doug; have a very high opinion of JPM and would like it to stay like that
- Was the mistake how the reduction of the hedge was done?
- It sounds like you are saying, we have a big BS, we can hold onto these things but what I fail to understand is
 why not lock in the loss? Already marked it so why not take the loss and move on?
- What personal changes are being prompted as a result?
- Appreciate Jamie being transparent but to another extent \$28 is not a big deal, the bigger deal is the VaR, risk
 model etc. But why have this call now? Why not wait?
- What was the difference between the two VaR models? Is this something the regulators will examine?
- The share price is now close to TBV, how should I think about that in terms of buybacks? What did Jamie mean
 when he said "I believe so"? Can they revisit the situation and change their views?
- Does the fact that you had to revise your Basel III ratio and this 20bps impact change your views on buybacks?
 Once you runoff this portfolio, does the 20bps come back?
- Would the regulators change the way they approach their RWA and VaR model as a result of this? Did they
 approve the current models?

Nikhill Uppal - BlackRock - Buyside

- Why did the VaR number go up so much around the model change?
- The new model was only something you put in place this year? Are these the same models you use for clientfacing stuff or unique models for CIO?
- Do the CIO activities fall into your CRO office? Does your CRO office monitor these activities?
- . Is the \$2B a mark-to-market hit or a sold position hit?
- Did Jamie say the \$18 impact is from the sale or from market fluctuations?
- In theory, shouldn't there be a gain somewhere else within the organization?
- Was the reduction of the hedge what was poorly monitored?
- Is CIO's revenue allocated across the businesses? Does any of the revenue or hedging activities affect the other LOBs? Do the hedging activities all stay within CIO?

Lansdowne - Pete Davies and Marc Rubinstein - Buyside

- Could you have disclosed this before? We were looking for updated information a week ago when we called you
- What was the timeline around this?
- Frustration is that this story was in the newspaper and all the hedge funds have been trading against you; seems
 slightly unfair that the shareholders are the last people to know about this
- You have the best information and are supposedly more competent and it seems as if those that had less
 information and are less competent knew more then you did and reached the right conclusions before you did;
 is JPMorgan an incompetent firm?
- We need an explanation of what happened and how the whole situation came about; it's one thing to say we
 did a bad job but we don't understand how the monitoring could have been so bad
- What is Jamie doing internally at the moment? Seems like we are being left with a clear admission of the
 mistake without anything really tangible
- Worried about managerial transmission in-terms of actions
- Do you get the impression internally what the loss number will be?
- Is there a sense of panic going on?
- Clearly a credibility setback yesterday. How are you planning to get the credibility back?
- What is the attitude of senior management right now?
- I would like to speak with Jamie or Doug for 5-10 minutes; just want to hear them sounding calm; would be very reassuring; in next week or two, when dust settles
- For what's it worth, we bought more stock this afternoon

Greg Anderson – UBS – Buyside

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- · Was it a hedge you put on for tail-risk that you were trying to reduce?
- When did this start?
- Why did you switch to the new model? What was the problem with the new model?
- What gives you comfort in terms of the \$1B loss?
- From a practical stand point, the sooner this can be resolved, the better. Assuming you can't get out of the position in an economic way anytime soon, correct?
- Scared me when Jamie said poorly monitored. What does this mean and how can you change things to make sure this doesn't happen again?
- Was he referring to the Whale article when he said this was related to the Bloomberg article?
- Can you continue with buybacks?
- Surprised on how the stock has acted; guess stock is going to be cheaper for Jamie to buy it back

Craig Peskin - Highfleids - Buyside

- Why the decision to host a call yesterday and disclose the loss? Could have offset the losses with your gains
- Not convinced that you had to give corporate guidance with a call; do you still think it is the right decision?
- Concern is that the damage to the intrinsic value of the business is small but the real risk is in regulatory change: you have seen Levin's statement and the Barney Frank e-mail; people in Washington are very worried about this and how Voicker may turn out now as a result
- Thought Jamie came across well and forthright but the problem is when you whip yourself on a public conference call, there are a lot of great one-liners that will be on the front page; no points for being forthright
- Buybacks are you allowed to be in the market today? Do you need to get approval from the fed to confirm that you can? Is there a risk they can call you and say stop the stock buybacks?
- What would the disclosure requirements be if you received the call to stop the buybacks?
- What are you allowed to buy? 25% of the last average daily volume of the last 4 weeks?

Philip Nicosia & Virge Trotter - Manning & Napier - Buyside

- . What was the reason for having the synthetic credit portfolio in place? Was this designed to decrease your credit exposure?
- Where you trying to synthetically increase you credit exposure to increase your margin?
- How do you decide how much to hedge? When do you decide to increase or decrease the hedge? Is one person making the decision? A committee making the decision?
- What has changed going forward to prevent this from happening again?
- How do we think about this going forward?
- Do you expect the firm to spin off or sell of any your businesses if Volcker comes out as it's currently written?

Vyas Bhagyashree - Credit Capital Research Technologies - Buyside

- Was this loss associated with a book in London? Why is the location of the book a sensitive matter? Is the CIO a global office and the book a global book?
- Does the regulators rules in NY apply to positions held overseas? There's no reason for us to think they were unaware of the size of this position correct?
- What did the CIO-related loss stem from? A hedge position or a prop trade?
- How would you define Jamie's statement on this being related to the bloomberg article "yes, in part"?
- Does the CIO report directly to Jamie? So he is the ultimate supprvisor? Was there someone in the middle of the chain? How big is the CIO office?
- Why is the newspapers saying that the trades were put on it London referencing US securities?

John McDonald - Sanford Bernstein - Sellside

- What is driving the loss and potential future losses? Have you sold the positions?
- What do you mean by reducing the hedge? Why did you want to reduce it if was fine for years?
- Did the reduction of the hedge drive the losses?
- Why even say \$1B (additional losses) if it could be more?
- Should we be prepared for volatility in the Corporate and other sector only?

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- Over the past couple years, were the successfull investments of CIO enhancing JPM's profitability, including in the LOBs? What is the potential impact of potential changes in CIO on JPM profitability and LOB profitability?
- Are there restrictions for what a bank CIO can invest in? Are there limits for what your CIO can buy and can't buy?
- Is synthetic credit used as a hedge for the usual investments or the loan book? Usual investments don't really
 have a lot of credit risk
- What is the connection with hedging credit across the company and loan losses? Don't loan loss reserves protect
 against credit exposure?
- Did the faulty process of reducing the hedge cause the losses?
- The possibility of having swings in volatility, is that due to repositioning?
- What are the ramifications in terms of people? How high up does this go?
- Does the CIO report into Jamie?
- Can you still do buybacks? Did you hear from the Fed? Any change in what you can do? If that changes, you should be transparent about it.
- . Why did the Basel ratio change? Was the impact of VaR through RWA?

Andrew Marquardt - Evercore - Seliside

- Is there a way to ringfence how big the synthetic portfolio really is?
- . How do people get comfertable externally that there aren't additional such exposures?
- When your review is completed, will you be able to share things with us?
- Are there now going to be new invistigations informal, or otherwise, by the Fed and SEC?
- How long has this strategy been going on? How meaningful has it been to net income?
- Are there benefits from CIO in other business lines?
- How much of the prior guidance was related to this activity?
- · It could be an incremental \$18? What was meant?
- It could be an incremental \$15? What was mean
 Is this a closed position or mark-to-market?
- Is the goal to be repositioned by the end of the year?Are you now going back to your old model?

Bill Rubin - Blackrock - Buyside (e-mail)

The word "unanalyzable" is being used quite a bit over last night and this morning. Not good for stock valuation.
 Hope there's data and commentary forthcoming to remove this stigma

Bryn Jones - Rathbone Brothers - Fixed income buyside (e-mail)

- Oh dear! Now a big trading mistake. Brand damage from both should not be underestimated. Even if they are not or are related
- Confidentially, we pulled gbp15m from JPM gbp liquidity fund today. Just be aware that this is really damaging
 for what was a well respected brand in London. These two events so close together have meant we are
 retrenching from JPM for now
- We have left the FI execution credit line open for now but broker debit balances and limits with JPM/JPM
 Cazenove are being reviewed closely

Sarah Youngwood | Managing Director | Head of Investor Relations | JPMorgan Chase Co. | 270 Park Avenue, New York, NY 10017 | T: 212 622 6153 | F: 212 270 1648|

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From:	Julien G Grout <julien.g.grout@jpmchase.com></julien.g.grout@jpmchase.com>				
Sent:	Mon, 16 Apr 2012 19:07:20 GMT LUIS BURAYA <lburaya@profession ;="" <biksil2@profession="" bruno="" iksil="" iksil2@p<="" iksil2@profession="" sruno="" th=""></lburaya@profession>				
To:					
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Explanatory P&L (in \$1000s):

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Permanent Subcommittee on Investigations

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XOVER 682 +2.0

FINSEN 248 +6.0

FINSUB 401 +9.0

SOVX 0

CDX IG 100.5 +1.0

CDX HY 95.8125 -0.125

LCDX 102.375

PnL Comment:

1/ Index curves: no change today in CDX.IG9 and iTraxx.Main S9 5/10 curves. No PnL impact.

1 bis/ CDX.HY index curves flattened - Rescap related - +8bp, loss -13M

 $2/\ Compression:\ much\ smaller\ moves\ today.\ iTraxx. Xover\ decompressing\ a\ tad\ (+2bp,\ +6M);\ CDX. HY\ compressing\ -1.5bp\ (-11M)$

3/ Directionality: CDX.IG is +1bp wider (-5M), FINSUB are widening +9bp (-6M).

Market Comment:

Positive signs start to appear since Jamie and Doug's comments on Friday:

The market has stopped going against our positions in an aggressive way . We have not seen the positions trading against us since Apr 10 and we have seen since Friday encouraging signs . The fair value of CDX IG 9 (5Yr) maturity versus its components has started to widen . This suggests that small hedge funds are unwinding profits on their positions and the IG 9 Index has stopped steepening. The adverse market moves have probably started to reverse but we need further evidence on this as we do not see yet the effect on the marks that we are getting. There are signs of unwinds going our way but only in small size. There is finally selling interest on IG 9 5Yr, though not significant to reverse our loss but significant for the first time since the beginning of April and specially since our loss on Apr 10 .

Unrelated to our overall strategy there is a small idiosyncratic small move in a position that is costing us a small loss related to Rescap.

Late Friday, Ally Financial announced they would not extend the unsecured credit facility to RESCAP past May the 14th. The markets implied that RESCAP would likely default in May . It is mostly noise around the likely default of Rescap on the High Yield single names and CIO is impacted mostly on the equity tranche and recover the loss on the rest of the capital structure : the 10-15 tranches lose as expected and the 15-25 and 25-35 balance the loss. However, the CDX.HY index market, containing RESCAP, outperformed marginally the

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CDX.IG space (1.5bps), and flattened (8bps) causing a small idiosyncratic loss of 24M.

No trade today. 16-Apr-12 13-Арг-12 12-Apr-12 11-Apr-12 10-Apr-12 04-Apr-12 03-Apr-12 02-Арг-12 02-Apr-12 30-Mar-12 iTraxx.Main S17 Jun17 142 142 134 140.5 143 131 128 123 123.25 123.25

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From: Evangelisti, Joseph <joseph.evangelisti@jpmchase.com>

Sent: Tue, 10 Apr 2012 14:47:14 GMT

To:

Braunstein, Douglas < Douglas Braunstein@jpmorgan.com>; Hogan, John J. < John J. Hogan@jpmorgan.com>
Zubrow, Barry L <barry.l.zubrow@jpmchase.com>; Alvelo, Alexandra X <alexandra.alvelo@jpmorgan.com>; Dimon, Jamie <jamie.dimon@jpmchase.com>

CC:

Subject: WSJ call

Doug and John -

boug and John - We are scheduled for a backgrounder with the Wall Street Journal this morning at 11:30 am regarding the CIO. I'll join you, and we'll arrange a dial-in number. Participants may include:

Dan Fitzpatrick: covers JPMC
Greg Zuckerman: hedge fund reporter; wrote original story
Katie Burner: Dow Jones reporter, co-wrote original story
Francesco Guerrera: C Section Editor
Colin Barr: Finance editor

Thanks, Joe

 $\textbf{From:} \quad Youngwood, Sarah \, M < sarah.m.youngwood@jpmorgan.com >$

Fri, 11 May 2012 03:01:13 GMT

Dimon, Jamie <jamie.dimon@jpmchase.com>; Braunstein, Douglas <Douglas.Braunstein@jpmorgan.com>; Drew, Ina <Ina.Drew@jpmorgan.com>; Staley, Jes <jes.staley@jpmorgan.com>; Cutler, Stephen M <stephen.m.cutler@jpmorgan.com>; Evangelisti, To: Joseph <joseph.evangelisti@jpmchase.com>; Lemkau, Kristin C <Kristin.Lemkau@jpmorgan.com>;

Miller, Judith B. < Judith.B. Miller@jpmorgan.com>

CC: Investor Relations <Investor_Relations@restricted.chase.com>

Subject: RE: 10-Q call - Buyside and sellside comments (3)

All,

Here are a few comments/themes regarding today's calls.

- Overall tone was constructive. Analysts and investors appreciated Jamie's comments and the follow-up conversations. A lot of warm and positive comments (a few questioned the need for a call but overwhelming majority thought that was the right thing to do)
- Our messages seem to be generally well understood
- Financial impact not perceived as an issue by the Street
- · Major concern around the impact on Volcker
- Questions around broader risk management issues, regulatory impact, VaR changes and impact on our share
- A few people trying to precisely reconstruct what happened and to understand how losses in context of "generally benign" credit environment; I didn't go beyond Jamie's comments

Regards,

Sarah

Sarah Youngwood | Managing Director | Head of Investor Relations | JPMorgan Chase Co. | 270 Park Avenue, New York, NY 10017 | T: 212 622 6153 | F: 212 270 1648|

From: Youngwood, Sarah M <sarah.m.youngwood@jpmorgan.com>

Sent: Fri, 11 May 2012 15:03:07 GMT

Dimon, Jamie <jamie.dimon@jpmchase.com>; Braunstein, Douglas

✓Douglas Braunstein@jpmorgan.com>; Drew, Ina <Ina Drew@jpmorgan.com>; Staley, Jes
 To: <jes staley@jpmorgan.com>; Cutler, Stephen M <stephen.m.cutler@jpmorgan.com>; Evangelisti, Joseph <joseph.evangelisti@jpmchase.com>; Lemkau, Kristin C <Kristin.Lemkau@jpmorgan.com>;

Miller, Judith B. < Judith B. Miller@jpmorgan.com>

CC: Investor Relations < Investor_Relations@restricted.chase.com>

Subject: 10-Q call - Buyside and sellside comments (4)

Continuing to connect with investors this AM. Please see below.

David Hendler - Credit Sights - Sellside

- Was this an accounting change? Was this hedge ineffectiveness?
- · What is the specific of the trades?
- My only criticism at earnings was that this type of activity was too large an exposure and if you had to alter it, it
 might change things
- Did you put out another hedge on because the exposure was too high?
- We didn't see a large market movement that would be correlated to your losses
- When Jamie said this violates the principles of the Dimon rule, what is that rule?
- Would you characterize any of this as an operational risk problem on how the supervision of risk by monitoring is being done?
- When you went to the new VaR did you go to a 5 year horizon from a 2 year horizon? How long was the 2012 model data tested?
- Has the trading side changed their VaR methodology?
- Looks like that VaR is the highest I have ever seen
- Appreciate the candidness of the call
- Is ina Drew available for discussions? Interested in speaking with her; alternatively, call with Jamie or Doug would be great
- Supportive of your story because Jamie has done a great job overall, including in risk management; premier
 franchise, solid capital; this was a huge fumble because you promote yourself as the best risk managers out
 there
- There are people worried about other assets at JPMorgan but we are going to have your back and we know you
 are going to do the right thing

Doug Braunstein call with Dick Manuel and several PMs – Columbia Management Investment – Buyside

- "You've handled this well given it's a bad situation"
- Based on the call, I don't understand fundamentally the position and what happened
- How is a net notional of this size not scrutinized?
- Can you explain the investment grade versus high yield terms?
- Regarding the escalation of the issue, if you were using the old VaR model, do you think this would have hit the
 dashboard earlier?
- Between the close of the quarter and the 1Q12 conference call, were you working with the wrong information?
- How out of the woods do you feel? Any more color on how you'll get out of this?
- Are there natural termination dates on these contracts?
- What was the weighted average maturity on the original hedge in 2008 versus the opposite position?

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- Any color on the macro environment that drives this portfolio up and down, and how can we watch this from the outside?
- Any implications to CCAR/share repurchases? Have you had conversations with the rating agencies?
- Have you asked regulators if they will change the rules?

Doug Braunstein call with Ben Hesse and several PMs - Fidelity - Buyside

- Why did you have a \$100B notional trade on synthetic credit?
- Every hedge fund in the world now knows this. Will they make it hard for you to get out of the position? Can you
 mitigate this?
- If credit spreads get wider, will you lose money?
- . How do we know you won't drop another \$108 on this?
- ALM was excluded from Volcker; are you concerned that it will now be brought back into scope?
- What is the impact to NIM if you could only invest in US treasuries?
- What is the probability of this changing the outcome of Voicker?
- In CCAR the calculation of stress included a qualitative score for the quality of risk management. Will your qualitative score be affected?
- Any change in your ability to repurchase shares?

Tony Conaris - Harris Associates - Buyside

- What are the outcomes going to be?
- Is the \$1B securities related to the \$2B?
- As far as timing, when will you be out of this?
- Having trouble understanding the size of the hedges
- Repurchases not impacted, correct? Have you spoken to the Fed? They reserve the right to stop you from buying back stock
- We are disappointed; we aren't selling the stock because we think it's very cheap
- Would like to see some signal of conviction that this isn't a giant can of worms; buybacks are great but personal
 investment in the stock by Senior Management is a good idea

John Baldi – Clearbridge – Buyside

- Did you get confirmation from the regulator that you can do buybacks?
- What is the magnitude of the potential losses?
- · What happened?

Al Savastano – Norges – Buyside

- The \$1B of securities gains, was that related to the trading loss?
- You had several options on how to communicate this; I respect Jamie doing call, but that raised the profile, which has broad implications for JPM and others, including related to Volcker/regulation. Can you use unrealized gains to offset trading losses?
- Is it safe to assume the traders that were involved have been let go? Does it go higher than that?
- Who does the CIO report up to?

Sarah Youngwood | Managing Director | Head of Investor Relations | JPMorgan Chase Co. | 270 Park Avenue, New York, NY 10017 | T: 212 622 6153 | F: 212 270 1648|

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From: Lewis, Phil < phil.lewis@jpmorgan.com>

Sent: Fri, 11 May 2012 18:22:07 GMT

Subject: CIO Credit Collateral differences as of COB Thursday 10th

CIO Credit Collateral differences as of COB Thursday 10th May

Total difference between CIO and the counterparties is now \$66mm vs. \$120mm prior day

Largest Counterparty Difference: Morgan Stanley Capital Services is at \$46mm - down from \$58mm

Largest instrument Difference: ITRAXX MN 509 10Y 22-100 is now \$22mm vs, \$20mm on the prior day

*Please note: Deutsche Bank AG is as per the 9th May 2012

Difference by counterparty:

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JPMORGAN CHASE & CO.

JPMorgan Chase & Co. Corporate Sector EMR - December

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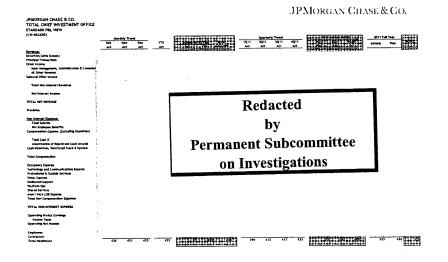
Treasury Group

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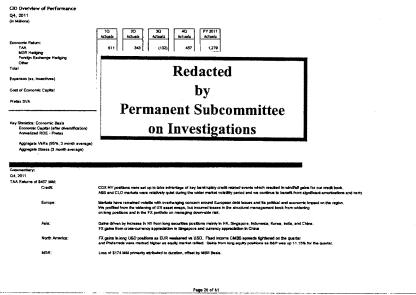
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From: Dimon, Jamie <jamie.dimon@jpmchase.com>

Tue, 15 May 2012 09:42:19 GMT

Miller, Judith B. <Judith.B.Miller@jpmorgan.com> To: Subject: Fw: 10-Q call - Buyside and sellside comments (10)

From: Youngwood, Sarah M

From: Monday, May 14, 2012 10:03 PM
To: Dimon, Jamie; Braunstein, Douglas; Staley, Jes; Cutler, Stephen M; Cavanagh, Mike; Zames, Matthew E; Evangelisti, Joseph; Lemkau, Kristin C; Miller, Judith B.

Cc: Investor Relations

Subject: 10-Q call - Buyside and sellside comments (10)

Please see below the balance of today's calls, including several calls placed by Doug Braunstein as follow-ups.

Doug Braunstein call with Beth Schulte - Capital - Buyside

- Given that the market is assuming a loss in the \$88-\$10B range and \$100B notional amount, how do you get comfortable with the estimated loss you have given?
- What happened to the original hedge? Has it been unwound?
- Are the mark-to-market numbers you have provided net (i.e. including all portions of the synthetic credit portfolio)?
- Why did you decide to reduce the hedge?
- Regarding VaR, do you use different models in CIO and IB?
- Concern is that the market now knows your position and they can push it up. Is the market over-penalizing you with the amount you have left?
- Is this just the tip of the iceberg? We worry that you can come out with a message but as people get fired, exemployees can come out with another message and then the newspapers and blogs come out with other message; how do you relay your message and how do you get people comfortable with it?
- Are numbers for CIO net of what is booked by LOBs?
- On a go forward basis, could changes in CIO affect NII in LOBs?
- WSJ said that the CIO's role was to cover your cost of capital. Is that correct?
- The gross mark-to-market number is going to be important to the investment community, even if you have offsetting securities gains
- Well handled. You guys have done a great job with your crisis management. Glad your team is running this

Doug Braunstein call with Kevin Conn - MFS - Buyside

- How should we think about your exposure?
- What is size of max loss; what is potential timeframe?
- Was this is any way proprietary as opposed to hedging?
- What are the risks in the position? Basis risk? Time frame? Geographic? Asset Class?
- What went wrong? Is the issue a liquidity issue or a basis differential issue?
- How closely was Jamie involved with managing the positions?
- Did you have to disclose the losses on May 10?
- Does this threaten your capital return in any way?
- What should we expect for disclosure of this portfolio going forward?
- Are we going to be speaking about this in 2013?

Doug Braunstein call with Pete Davies - Lansdowne - Buyside

- · What is your take on the situation?
- How is senior management feeling/working as a team?
- Has there been anything that surprised you in terms of market reaction?
- Is there anything preventing you from buying back stock?
- You moved rapidly on management changes? Any particular reason? Your management style?
- Think Jamie should be calm when speaking at the conference; important to convey that tone to shareholders
- Think the market is imagining a very large loss; hard to actually do the analysis on this
- Believe the market knows a lot about your positions and that incremental disclosure would be very helpful to shareholders
- Think you will get through it; time is your friend

Andre Messier - Fidelity (Fixed Income) - Buyside

- We got the impression that this was a moderation of your previous position; confused because would think you should be still pet short
- Can you confirm that the CDX9 5 and 9 year are part of this?
- Historically you have been a good risk manger; assuming that, when you came out and disclosed the losses, you
 understood what the hedge fund reaction would be in the market. Can we assume that before the
 announcement, you took mitigating actions?
- Disclosure by WSJ that there was a mandate to the group to make more than the cover the cost of capital. Is that correct?
- Critical people announced today that are leaving the group; seems this exposes you to more downside risk not
 having the people around that knew this position. Wouldn't it have made sense to keep them to unwind the
 trades?
- How big is the CiO group? What types of connections does this group have to Treasury/CRO?
- Pg. 108 and 109 of 10-Q In the financials, if I look at your derivatives exposure, it looks like your credit
 derivatives are a different story than what Jamie was laying out. It looks like you've added to your credit
 derivatives in 1Q12. Please help me understand the drivers.
- What other areas, besides CIO's synthetic credit portfolio and the IB, would be utilizing credit derivatives?
- Say you take a big corporate loan that you'd have for a long period of time and you wanted to put on one singlename hedge, where would that hedge be reported?
- VaR "The number changed pretty radically." Please explain why?
- · Was the 20bps reduction in the BIIIT1C related to VaR?
- Would like to meet with Sandie if possible in next few weeks; "a lot of people here would be appreciative"

Patrick Hughes - Olayan - Buyside

- Trying to size the exposure; have you said any more about it?
- is the CiO in charge of hedging credit for the entire Corporate sector?
- It seems like Ina has been pretty low profile considering the growth in the portfolio; have I missed her being talked about? Had she been introduced to shareholders?
- Presume this is the top focus; I read that people from Jes Staley's group are involved
- Have you spoken with the regulators? Any updates to capital deployment and CCAR?
- I read that the board is behind Jamie

Catherine Murray - Waddell & Reed - Buyside

- If this continues to go against you, what will be the ultimate loss that JPM could realize? Can it be worse than \$182
- My read of those WSJ articles 6 weeks ago was that you originally had a hedge to limit fat-tail credit risk. What gave rise to these problems?
- Instead of straight closing out the hedge that wasn't working, it sounds like you hedged a hedge, and the basis
 risk/lack of correlation backfired on you. Is that correct?

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- Jamie said on the call that you will eventually disclose more on the 2Q12 call. What do you expect to say then?
 What gives you the confidence that you'll be able to be more transparent in July? Will you be out of the positions by then?
- From the point of view of running the business, what can you tell us about the strength of your "bench" given the recent management changes? Are you changing CIO strategy further given what has happened?
- Can you talk about what led to your doubling of VaR? How accurate is the new model? How quickly can VaR come down?
- Can you talk about the model approval process? What level of management is involved in these decisions?
- Buybacks The \$12B was well-publicized. Realistically, what is available to you now? Is there a limit in the terms
 of the agreement with the regulators for a per-quarter-basis limit? If there are any changes, is that something
 you would announce?
- Have you moderated any tech investment spending? If so, on what types of projects?
- Should we expect to see the VaR of all other books come down, all else being equal, because the Firm wants to take on less risk?
- Will Moody's review the bank again?

Doug Braunstein call with John McDonald - Sanford Bernstein - Sellside

- . Can we have visibility on potential losses? Why couldn't it be \$15B
- is there any macro environment we can route for, given your positions?
- Is it fair to say that correlations broke down?
- Was there any analysis behind the \$1B figure used on the call?
- What is the duration of the contracts? Do they all run-off by year-end?
- Is there a possibility to reclassify any of the positions as held to maturity?
- Can you walk through what happened in terms of the VaR models? Do you expect VaR to remain at elevated levels in the short term?
- Is there any additional that you plan on giving?
- Unrelated to CIO, you didn't update guidance on expense in your 10Q. When can we expect an update?

Doug Braunstein call with Betsy Graseck - M5 - Sellside

- What is your level of confidence in the loss numbers you have given?
- Why did you want to put the uncertainty in the market by disclosing this rather than just closing out the position?
- What is your tipping point for losing credibility?
- Are you trying to work the portfolio down?
- Can anyone really get grasp and know what is going on with your position?
- WSJ said \$150mm in loss position; market thought it would be worse so that's why not down as much
- Feels like 2008 all over again and need to start worrying about tranches of fixed income instruments
- Can regulators force you to take action on the position?
- For every hedge fund that wants to stop you, others might want alpha and have a bid ask
- Equity investors are un-nerved because they can't asses the basis risk

Betsy Graseck - MS - Sellside

- Page 104 suggest that none of the \$126B of credit derivatives are designated as hedging; does it imply that
 credit derivatives are not for hedging purposes?
- Is Synthetic credit portfolio in part used to hedge Euro risk (\$3B after-tax risk described by Senior Management)?
- Can you help separate out CIO from Corporate/PE disclosure; I am able to separate out PE and litigation
 expenses, but can't go further
- Can you delineate between Treasury and CIO in terms of interest rate hedging?

Brennan Hawken - UBS - Sellside

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- In talking to folks on Friday, here was my thesis. I was advocating that this is a one-time event, which should last at most 3 quarters and which results in a terrific opportunity to buy JPM. I don't believe the event hurts the earnings power of the firm
- Investors were broadly split. Many (i.e., ~40-50%) agree with above thesis, but they are the ones who aren't in a
 position to buy at this point in time because they already have a full position in JPM
- The other investors were divided in their view. The most regular counter to my argument was from investors
 who don't know the full effect of the trading loss (magnitude/timeline) and therefore don't know fully how risky
 the stock is. Some of these investors also question how aggressive the CIO was in reaching for yield. Most
 skeptical investors refer to CIO returns being embedded in LOB profitability, in a way that cannot be entirely
 traced through Corporate.
- How has CIO profitability affected the franchise and LOB profitability?
- Jamie comments "In 2008/2009, when there were several loans held in either the C8 or IB, and Jamie said
 we're going to move them to the "corporate center" because we believe at these prices they are attractive as
 investments... I know there have been moments in the past that the CIO has been opportunistic"
- Around the time of the speculation around the "London Whale" press stories there were a few folks that heard
 of some unusual hires in the CIO office
- Investors are frustrated because overnight JPM has gone from a safe investment to a "leap of faith" stock.

Paul Miller - FBR - Sellside

- When did you go to the new model?
- When you put out your 2011 10K, did you use the 2011 model for VaR? In April did you disclose that you
 changed models?
- As an analyst, you displayed a VaR under a model and didn't disclose the new model and would have loved to know what the difference was in the VaR using the two different models
- Big difference in VaR between the two models
- is the increase in VaR all from the CIO office? Is it all related to the articles of the London Whale?

Jared (Gerard Cassidy's junior) - RBC Capital - Sellside

- Is the synthetic credit portfolio marked-to-market every day?
- The position was supposed to be a hedge, correct? Has that strategy changed at all?
- is it fair to say that you added more complexity to hedge your original hedge?
- VaR model change Were there mathematical errors in the model?
- Excluding Private Equity, is all revenue in Corporate from CIO? Is there any way of deriving CIO-only revenue?
- We look forward to getting more color going forward

Sarah Youngwood | Managing Director | Head of Investor Relations | JPMorgan Chase Co. | 270 Park Avenue, New York, NY 10017 | T: 212 622 6153 | F: 212 270 1648|

From: Lewis, Phil < phil.lewis@jpmorgan.com>

Sent: Tue, 15 May 2012 18:50:56 GMT

Tue, 15 May 2012 18:50:56 GMT

Dimon, Jamie c Jamie. dimon@jpmchase.com>; Braunstein, Douglas < Douglas Braunstein@jpmorgan.com>; Hogan, John J. - John J. Hogan@jpmorgan.com>; Drew, Ina < Ina.Drew@jpmorgan.com>; Zames, Matthew E < matthew.e.zames@jpmorgan.com>
O Rahilly, Rob < Rob.D. Rahilly@jpmorgan.com>; Bacon, Ashley < Ashley.Bacon@jpmorgan.com>; Venkatakrishnan, CS < cs.venkatakrishnan, CS To:

CC:

Subject: FW: CiO Credit Collateral differences as of COB Monday 14th May

CIO Credit Collateral differences as of COB Monday 14th May

Total difference between CIO and the counterparties is now \$156mm vs. \$69mm prior day

Largest Counterparty Difference: Morgan Stanley Capital Services is at \$46mm - up from \$27mm

Largest Instrument Difference: ITRAXX MN S09 1DY 22-100 is now \$42mm vs. \$10mm on the prior day

Difference by counterparty:

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From: Goldman, Irvin J

Sent: Mon, 30 Jan 2012 13:06:49 GMT

Bacon, Ashley, <Ashley.Bacon@jpmorgan.com>

Subject: Re: CIO VaR heads up and update

Sounds fine. Pete as head of market risk and keith stephan in london are responsible. Our priority is getting the model implemented today so we get the reduction the firm is anticipating. Thanks.

From: Bacon, Ashley To: Goldman, Irvin 1 Sent: Mon Jan 30 05:07:34 2012 Subject: RE: CIO VaR heads up and update

irv, I talked with Mick Waring and with Model Review this morning. An full list of differences will be created which you and I can review, and figure out who else to pull in to help opine on which is better, and when differences are justified. Sound ok?

Ashley

From: Goldman, Irvin J Sent: 28 January 2012 20:56 To: Bacon, Ashley; Hogan, John J. Subject: RE: CIO VaR heads up and update

John, ashley, Please find the below summary bulletin in mrg approval report. Ashley I will send you full report.

Consistency with firm-wide VaR calculation. The proposed approach is different from that used in IB. While the approach proposed by ClO is superior in that it is a full revaluation approach, it differs from that used in IB in that it does not use risk mapping to on-the-run tranches.

-----Original Message---From: Bacon, Ashley
Sent: Saturday, January 28, 2012 11:28 AM Eastern Standard Time
To: Hogan, John J.; Goldman, Irvin J
Subject: Re: CIO VaR heads up and update

Will do.

From: Hogan, John J.
Sent: Saturday, January 28, 2012 04:19 PM
To: Bacon, Ashley; Goldman, Irvin J
Subject: Re: CIO VaR heads up and update

Thx and can you guys compare notes on any methodology difference bown ${\rm i}{\rm B}$ and ${\rm CIO}$ and ${\rm let}$ me know what you find? Thx, John

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From: Bacon, Ashley To: Hogan, John J.; Goldman, Irvin J Sent: Sat Jan 28 11:15:12 2012 Subject: Re: CIO VaR heads up and update

If this change is what I think it is (full reval credit p&l calculation for the shocks derived from the VaR days, instead of sensitivities times shocks); then the IB is already on the new methodology so no change for us.

I will confirm, and let you know if not.

From: Stephan, Keith

From: Hogan, John J.
Sent: Saturday, January 28, 2012 03:43 PM
To: Goldman, Irvin J; Bacon, Ashley
Subject: Re: CIO VaR heads up and update

is this change in methodology applicable to IB's VaR as well. What was the primary change that we made? Thx, John

From: Goldman, Irvin 3 To: Hogan, John J.; Drew, Ina Sent: Fri Jan 27 13:35:40 2012 Subject: CIO VaR heads up and update

From: Stephan, Keth
Sent: Friday, January 27, 2012 1:30 PM
To: Goldman, Irvin J; Weiland, Peter
Cc: Kalimtgis, Evan; Martin-Artajo, Javier X; Macris, Achilles O; Lee, Janet X; Chandna, Sameer X
Subject: Update on *old/current methodology VaR* increase for COB 27 Jan
Importance: High

Below please find an update on the increase in VaR for Core Credit from 103.8mm to 107.6mm. Final VaR vectors globally have not been processed yet for COB 26 Jan, however CIO is over its temporary limit, and could cause the Firm to do the same. As such I wanted to communicate this to you to ensure we are all on the same page about

The *aid methodology* currently in production: VaR has increased by +\$3mm, to \$107.6mm driven by increase in CDX IG 59 10Y index long risk (+1.8bio notional). This is consistent w/ the VaR increases of the last several days, under the old methodology, wherein the VaR increases approx 1mm per billion of notional in IG9 10y. I estimate this will put ClO Global over its temporary \$110mm limit and probably closer to \$115mm—note: not all vectors globally are loaded yet for the 26 Jan cob - so I'm estimating here. This means that the formal notification of limit excess will be generated and distributed to you for approval.

Importantly, for the same COB 26 January, the *new / full revaluation methodology* shows VaR decreased (\$1.3MM) from 70.8mm to 69.5mm. Testimate that this would make CIO global VAR closer to \$76MM vs. the currently reported number >\$115.

We anticipate final approval on Monday, and that the "new methodology should become the official firm submission from Monday, for 27 Jan COB." Limit issues should therefore cease beginning from Monday.

We have completed all technology changes to support the daily production of the VaR under new methodology beginning from Monday.

Thanks and please let me know if you have any questions.

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Keith Stephan Chief Investment Office IPMorgan Chase 100 Wood Street, London, EC2V 7AN Tel %: 444(0)267.395.8812	Red Sub	acted by the Permanent committee on Investigations
Keith		

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Core Credit Book: Storyboard: 1- Starting point : * keep shrinking the book on the largest legs : tranches, HY , Ig9, Main S9 2- Mission : balance the book. : * switch the bias to long risk, flatten downside on defaults, reduce Var and Stress Var 3- Execution : it went all bad.... * sold protection on IG9 5yr, bought protection on HY on the run, built decompression trades * S9 forward spreads lagged the IG rally 4- What Happened? * The decompression hit us more than the gains that we recorded on the decompression trades 5- Plan * plan A: put the whole book (tranches & Indices) to lightly managed status * Plan B: keep the tranche book as an option on default lightly managed until expiry and collapse the index book. J.P.Morgan

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1- Starting point: 1- Starting point: 1- The branche notional was reduced by 15%. 1- The book started the year with a long risk in IG9 forwards (but upside on defaults in IG) and a short risk in HY { but with downside on some defaults like Kodak or Rescap). The aim was to create some options on the book to reduce aggressively on opportunity. 1- In order to shrink the book further, we aimed at reduce the upside on IG defaults and reduce the downside in HY defaults: selling protection in IG9 Syr and selling risk in HY on the run would have allowed to achieve that goal and reduce the book: 2- Mission: balance the book: 3- Execution: it went all bed... 3- Execution: it went all bed... 4- What Happened? 1- The decompression hit us more than the gains that we recorded on the decompression trades 5- Plan 1- plan A: put the whole book (tranches & Indices) to lightly managed status 1- Plan B: keep the tranche book as an option on default lightly managed until expiry and collapse the index book.

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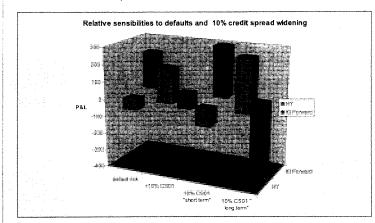
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Core credit book : execution problem...



J.P.Morgan

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Core Credit Book: Storyboard : starting point

 * keep shrinking the book on the largest legs : tranches, HY , Ig9, Main S9

2- Mission : balance the book, :

- * the short risk in the book was covered starting the 15 $^{\rm th}$ of December ; the bias became bullish the 15 $^{\rm th}$ if Jan
- * the downside on defaults like Kodak and Rescap was covered in February
- * A large decompression trade was put on in order to cover downside on forward default risk in IG and Main in order to reduce the Var and the Stress Var

3- Execution : it went all bad....

- * selling protection on IG9 and Main S9 Syr started to steepen a lot : the book became long risk
- * selling risk in HY produced a gain due to the decompression (right call) but it weighed on the HY names held in IG9 index (MBIA, RADIAN, ISTAR, SPRINT)
- * the under-performance of the forwards versus the IG on the run brought a long risk exposure that had to be hodged in order to contain the Var-Stress Var- RWA increases : most of the rally was thus missed....the P&L impact is estimated at 400M\$

4- What Happened?

*The decompression hit us more than the gains that we recorded on the decompression trades

5- Plan

* plan A : put the whole book (tranches & Indices) to lightly managed status
* Plan B : keep the tranche book as an option on default lightly managed until expiry

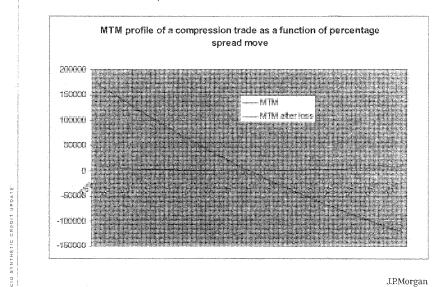
and collapse the index book.

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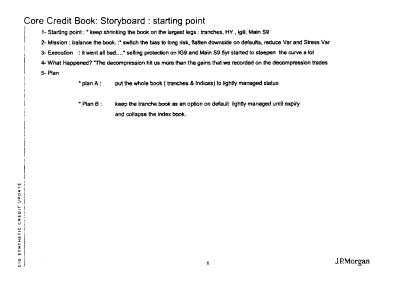
Core credit book : execution problem...



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Core Credit Book: Storyboard : starting point 1- Starting point : $\ensuremath{^{\bullet}}$ keep shrinking the book on the largest legs : tranches, HY , Ig9, Main S9 2- Mission : belance the book. : *switch the bias to long risk, flatten downside on defaults, reduce Var and Stress Var 3- Execution ; it went all bad.... * selling protection on IG9 and Main S9 5yr started to steepen a lot ; the book became long risk *selling risk in HY produced a gein due to the decompression (right call) but it weighed on the HY names held in IG9 index (MBIA, RADIAN, ISTAR, SPRINT) * the under-performance of the forwards versus the IS on the run brought a long risk exposure that had to be hedged in order to contain the Var-Stress Var- RWA increases : most of the rally was thus missed....the P&L impact is estimated at 400M\$ 4- What Happened? * The duration extension plus the forward underperformance vs IG on the run were balanced in risk with the protection we bought in HY * the HY names in IG9 were also in the HY indices we traded, and the gains on decompression did not balance the loss in the forward IG9 * we reported a loss of 130M in Jenuary, another loss of 90M in February despite increasing the position in the forwards. In march, the loss accelerated very fest and painfully. We opted to go long risk and stop trading next. 5- Plan * plan A : put the whole book (tranches & Indices) to lightly managed status * Plan B : keep the tranche book as an option on default lightly managed until expiry and collapse the index book. J.P.Morgan

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Core Credit Book: summary 1- the beta adjusted moves - case of a 1x1 hy vs IG position : illusions with spreads and bp measure sensitivities - the book remains neutral x% CS01 : implications 1- If IG9 lags, the book becomes long risk, because we are long risk in IG9 2- if HY decompresses, the book becomes short risk, because we are short risk in HY 2- the Mathod - Look at beta adjusted moves on history : the whole story is about compression and decompression - breakdown the risk from beta factors the book has a directional bias, but this is all about expected loss changes (mixing carry and MTM) 2- the beta neutral book breaks into 3 parts: a- decompression trade ie HY vs (G on the run b- S9 vs. IG on the run and hy off the run vs HY on the run c -- equity tranche slope 3- the findings : target YTD at -750M - the book is huge; 95Bln IG9 and 38Bln S9 fwds , decompression (8M bp in HY or 25Bln, 2.3M in Xover or 7Bln) - Decompression worked very well and only starting : total gain ytd of 600M (60Bp Xover, 60bps in HY) we captured 12% decompression out of a move of 18% - Series9 lag is overwhelming : total loss YTD is 1.5bln (22bps in IG9 fwds and main S9) - directionality -60M and carry -40M (with no roll down) : total 100m -defaults (Kodak and Rescap) cost are estimated at 100M total - 0-3 equity slopes cost a total 170M :0M in itraxx (2pts) and 170M in CDX IG (5pts) -New trades : gain 70M J.P.Morgan 2

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Core Credit Book: Trading activity: positions and new trades

- 1- cover the HY downside on some defaults, prepare for IG tightening, stay market neutral to minimize RWA 2- started by selling IG9 5yr and S9 5yr: the curve steepened and the forwards moved up
- 3- sold S9 and IG9 5x10 to limit the P&L hit
- 4- defended the P&L at Month end while the decompression kept going and increased the underperformance of S9 series

Itraxx Block		All trades	Start Jan Book	Start Feb Book	Start March Book	Current Book
Main OTR Xover	3.700	-2,479,033,784	-3,756,756,757	-3,283,783,784	-4.884.371.622	-6,235,790,54
Main OTR IG	4.500	10,599,248,667	18,062,222,222	14,940,000,000	20,883,402,222	26,661,458,889
S9 Fwd	4.300	15,534,528,571	20,497,375,000	27,746,375,000	33,398,625,000	38,511,625,000
5yr IG OTR eq	4.500	14,844,105,079	19,586,380,556	26,513,202,778	31,914,241,667	36,799,997,222
Net 5yr OTR	4.500	22,472,525,079	-4,116,619,444	6,190,069,444	14,082,350,556	20,725,417,222
CDX block		All trades	Start Jan Book	Start Feb Book	Start March Book	Current Book
HY OTR	4.100	-12,027,013,171	-7,246,905,439	-7,695.056,537	-14,662,635,805	-19,273,918,610
IG OTR	5.000	52,269,399,240	31,495,051,036	33,442,715,708	63,723,815,208	83,764,450,278
Hyotr	4.100	-2,550,011,220	-8,555,429,927	-11,325,839,805	-11,224,162,976	-11,105,441.148
HY10-11	2.435	4,293,653,388	14,405,446,694	19,070,202,546	18,899,001,314	18,699,100,082
IG9 fwd	4,500	39,888,686,889	54,651,951,114	75,029,095,559	94,017,484,448	94,540,640,003
IG OTR	5.000	-35,899,820,000	-49.186.756.003	-67.526,186.003	-84,615,736.003	-85,086,576,003
Net IG OTR	5.000	12,061,510,760	-20,135,375,035	-5,227,009,705	-8,934,809,205	-8,073,864,275

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CIO SYNTHETIC CREDIT UPDATE

Core Credit Book: BP sensitivities and Directionality of the book

- As spreads tightened the IG9 and S9 10yr saw their duration increase while all other legs had a shrinking duration
- 1- this created an increase on the expected loss of the long risk that was amplified with the forward exposure
- 2- the decompression creeted a long risk that was covered with a short risk in HY as the market rallied (Var minimization)
- 3- this long risk exposure should have been maintained; this would have triggered an increase in RWA and Var
- 4- the decompression trade in HY and Xover was never large enough due to the legacy because we had to increase the position to defend the P&L hit without being able to stay long risk (due to RWA & Var constraints)

5- the decompression in 25Bin long risk in IG	S9 (around 25%) have induced a	natural increase of long iss	circa 1069n	long nsk in main and	
CS01	All trades	0 Start Jan Book S	tart Feb Book	Start March Book	7

CS01	All trades	0 Start Jan Book	Start Feb Book	Start March Book	Current Book
Main OTR Xover	-917,243	-1,390,000	-1,215,000	-1.807,218	-2,307,243
Main OTR IG	4,789,661	7,228,000	6,318,000	9,397,531	11,997,661
o			,		
S9 Fwd	6,679,847	8,813,871	11,930,941	14,361,409	16,559,999
5yr IG OTR eq	6,679,847	8,813,871	11,930,941	14,381,409	16,559,999
0					
Net 5yr OTR	10,112,636	-1,852,479	2,785,531	6,337,058	9,326,438
0					
CDX block	All trades	Start Jan Book	Start Feb Book	Start March Book	Current Book
HY OTR	-4,931,075	-2,971,231	-3,154,973	-6.011,681	-7,902,307
IG OTR	26,134,700	15,747,526	16,721,358	31,861,908	41,882,225
. 0					
Hyotr	-1,045,505	-3,507,726	-4,643,594	-4.601,907	-4,553,231
HY10-11	1,045,505	3,507,726	4,643,594	4,601,907	4,553,231
o					
ol o					
IG9 fwd	17,949,910	24,593,378	33,783,093	42,307,868	
IG OTR	-17.949,910	-24,593,378	-33,763,093	-42,307,868	-42,543,288
Net IG OTR	8.030.755	-10,067,888	-2.613.505	-4,467,405	-4,036,932

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Core Credit Book: P&L explain

Positives	+980M USD	Negatives -1770M USD	
Decompression	+560M USD	Steepening S9 and IG9 -1000M USD	
HY off the run	+ 200M USD	Defaults - 150M USD	
Carry	+ 150M USD	Duration effect - 450M USD	
New trades	+ 70M USD	Equity tranche steepening170M USD	

		Feb	March		TOTALS
Book	TOTALS	118,516,208	-12,239,142	-180,141,486	-73,864,420
traxx Block					
Kover/main ratio	ł	58,799,595	44,189,466	57,852,908	160,841,961
S9fwd ratio	ł	-52,805,738	-122,108,870	-242,054,127	-416,968,733
Franche P&L	1	50,000,000	0	-50,000,000	1
New trades P&L	l	50,000,000	0	0	50,000,000
directional	i	12,522,349	65,680,263	54,059,733	132,262,34
	TOTALS				TOTALS
IG block	i	-141,512,028	-23,594,549	-526,558,569	
-fY/IG ratio	1	89,015,888	120,496,700	199,004,093	408,516,68
-Y off ther un vs on the run	i	181,038,597	56,597,893	-34,187,796	203,446,695
G9 Fwd	I	-340,643,952	-69,926,692	-544,970,101	-955,540,745
Franche P&L	i	-35,000,000	-70,000,000	-65,000,000	-170,000,000
New Trade P&L	i	0	20,000,000	0	20,000,004
directional	i	-35.920.561	-30,762,450	-31,402,766	-98,085,770
Defaults	1		-50,000,000	-50,000,000	-100,000,000

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Core Credit Book: Series 9 steepening explanation : the forwards have lagged the 40bps market rally by 22 bps....

CDX IG9	Spread compressio	spread 03/01/2012	spread 27/03/2012 [Duration chge	Spread chge	Duration adjusted	Beta adjust Dur1	Dura	2
5уг	48%	132	68	-23.00%	64	90.90	92.3	0.97	0.74
7yr	37%	140	88	-14.00%	52	57.80	51.5	2.82	2,68
10yr	26%	149	111	2.000%	38	37.51	29.3	5.26	5.28
On the run 5yr	32%	121	82	-9.00%	. 39	40.98	41.0	4.65	4.5€
S9 forward	22%	152	118	26.00%	34	26.06	19.6	4.29	4.55
IG15	35%	111	72	-12.00%	39	41.94	46.5	3.8	3.68

Main S9	Spread compressio	spread 03/01/2012	spread 27/03/2012	Duration chge	Spread chge	Duration adjusted	Beta adjust Dur1	Dur2
5yr	48%	170	89	-21.00%	81	101.37	79.5	1.44 1.2
7yr	34%	189	124	-9.00%	65	69.42	45.0	3.23 3.1
10yr	26%	195	145	20.000%	50	43.97	26.3	5.54 5.7
On the run 5yr	34%	173	115	0.04	58	56.69	40.0	4.38 4.4
S9 forward	22%	206	160	36.00%	45	30.54	16.9	4.08 4.4

Component	Itraxx Main S9	CDX IG 9	
10yr underperformance	8 Bp	1 Bp	
Steepening	4 Bp	4 Bp	
Duration effect	4Bp	10 Bp	
Beta adjustment	8 Bp	7 Bp	
Total	24 Bp	22 8p	

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Core Credit Book: Analysis of the IG9 performance

IG9 can be proxied as a normal iG index of 117 names and 5 HY Names (MBIA, RADIAN, ISTAR, SPRINT, RR Donnelley) :

- roused as a normal is linear or 11 fr hames and 3 HT Hames (Mole, Notice, 15 Jan, 5 Finit), No Dementy).

 The 5 names behaved like the whole HY market: they underperform the IG market and sleepened allot

 Their move relative to the rest of IG indices allows to explain most of the lag in IG9 curve but not all

 Yet 5yr IG9 outperformed by 3Bps, 7yr outperformed by 4 bps while 10yr underperformed by 2 Bps: the net
 P&L impact is estimated -100M USD

5yr	compression	spread 03/01/2012	spread 27/03/2013	2 Duration chge	Spread chge	Index eq bp	index based t	heo	
CDX IG9	61%	132	61	-23.00%	64	64.0	0 64,0	0.97	0.7
RDN	60%	31.00%	12.48%		18.5%	15.1	8 18.82% -	0.24	
MBIA	28%	16,00%	11,49%		4.5%	3.7	0 9.71% -	4.26	
SPRINT	63%	5.80%	2.17%	IG tightening	3.5%	2.9	8 3.52%	0.09	
RRD	59%	4.09%	1,68%	55.00%	2.4%	1.9	8 2.48% -	0.06	
SFI	73%	12.62%	3.40%	simul	9.2%	7.5	6 7.66%	1.28	
% Index loss	55%		51%	55.04%	31,39		-	3.20	

Tyr	compression	spread 03/01/2012	spread 27/03/2012 D	uration chge	Spread chge	index eq bp		index based t	heo .	
CDX IG9	40%	140	88	-14.80%	52		52.00	52.0	2.82	2.68
RDN	34%	52.00%	34.50%		17.5%		14.34	20.94% -	2.82	
MBIA	14%	36.00%	31.00%		5.0%		4.10	14.49% -	7.78	
SPRINT	14%	21.00%	18.00% K	ightening	3.0%		2.46	8.46% -	4.47	
RRD	20%	15.00%	12.00%	52.00%	3.0%		2.46	6.04% -	2.49	
SFI	12%	26.00%	23.00% #	mui	3.0%		2.46	10,47% -	6.12	
% Index loss	21%	31%	41%	39.23%	23,36				23,68	

Юут	compression	spread 03/01/2012	spread 27/03/2012 Du	tration chige	Spread chge	Index eq bp	index based t	heo	
CDX IG9	24.5%	149	112	2.000%	37	36.5	0 28.3	5.26	5.21
RDN	26%	66.00%	49.00%		17.0%	13.9	3 16.20%	0.56	
MBIA	10%	51.00%	48.00%		5.0%	4.1	0 12.52% -	6.16	
SPRINT	1 1%		35.00% IG	Oghtening	0.5%	0.4	1 8.96% -	8.93	
RRD	3%	30.00%	29.00%	30.00%	1.0%	0.8	2 7.36% -	5.22	
SFI	19%	38,50%	31.00% sk	mul	7.5%	6.1	5 9.45% -	1.60	
% index loss	14%	23%	26%	25.75%	19.26			19,26	

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Core Credit Book: Analysis of the ITRAXX Main S9 performance

Main S9 can be proxied as a normal IG index of 120 names and 5 HY Names (OTE, ESPIRI, DIXONS, EDP, PORTEL) :

- The 5 names behaved like the whole Xo market : they underparform the IG market and steepened a lot

 Their move relative to the rest of Main indices allows to explain most of the lag in Main S9 curve but not all

 Yet 5yr IS9 outperformed by 3Bps, 7yr outperformed by 4 bps while 10yr underperformed by 2 Bps : the net
 P&L impact is estimated -100M USD

5yr	compression	spread 03/01/2012	spread 27/03/2012	Duration chge	Spread chge	Index eq bp	index based	theo	
Main 59	56%	173	89	-21,00%	84	84	.00 84.0	1.45	1.2
OTE	48%	30.00%	16.20%		13.8%	11	.31 16.80% -	2.46	
ESPIRI	60%	17.50%	7.00%		10.5%	8	61 9.80%	0.57	
EDP	19%	8.00%	6.50%	IG tightening	1.5%	1	.23 4.48% -	2.44	
DIXONS	54%	12.00%	5.50%	55.00%	6.5%	5	.33 6.72% -	0.18	
PORTEL	44%	9.00%	5.06%	simul	3.9%	3	.23 5.04% -	0.90	
% Index loss	47%	25%	30%	52.72%	29,70			5,41	

7yr	compression		spread 03/01/2012	spread 27/03/2012	Duration	chge	Spread chge	Index eg bp		index based th	eo	
Main S9		35%	188	123		-9.00%	65		65.00	65.0	3.23	3.14
OTE	1	29%	45.00%	31.90%			13.1%		10.74	16.38% -	2.69	
ESPIRI	1	32%	30.00%	20.50%			9.5%		7.79	10.92% -	1.16	
EDP	1	18%	22.00%	18.00%	IG tights	ning	4,0%		3.28	B.01% -	3.2B	
DIXONS	1	40%	29.00%	17.50%		47.00%	11.5%		9.43	10.58%	0.77	
PORTEL	1	24%	23.00%	17.50%	simui		5.5%		4.51	8.37% -	2.35	
% Index loss	1	29%	20%	22%		43.03%	31.23				8.71	

10yr	compression		spread 03/01/2012	spread 27/03/2012	Duration chge	Spread chige	Index eq bp		index based th	100	
Main S9		25%	196	144	13.000%	52		48.06	0.3	5.54	5.67
OTE	- 1	17%	53.00%	44,90%		9.0%		7.38	13.15% -	3,40	
ESPIRI	1 :	35%	51,00%	33.00%		18.0%		14.75	12.65%	4.38	
EDP	1 :	15%	38.50%	31.00%	1G tightening	5.5%		4.51	9.05% ~	2.91	
DIXONS	1	0%	30.00%	30.00%	Z9.00%	0.0%			7.44% -	6.10	
PORTEL		22%	38.50%	30,00%	simul	8.5%		6.97	9.55% -	0.86	
% index loss	1 :	20%	16%	17%	27.42%	26.64				8.89	
% index loss		20%	16%	37%	8	20.54			J,F	Morg	

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Core Credit Book: The devil in the details ...there is an overshoot of circa 385M USD due to over steepening of HY components and

The CDX IG9 index curve steepened marginally more than it should have been according to the on the run IG steepening this results in an underperformance estimated at 110M USD

G9 CALCULATION -135,000,000,000	41	41,310,000.00
35,000,000,000	-0.4	3,850,000.00
95,000,000,000	1.4	71,820,000.00

The Main S9 index curve steepened marginally more than it should have been according to the on the run Main On the Run steepening this results in an underperformance estimated at 60M USD

Itain S9 CALCULATIOCS01	BP rel	move	
-35,270,000,000	1.3	-2.7	12,242,217.00
3,360,000,000	3.2	-4.9	5,289,984.00
26,447,000,000	5.6	3.6	53,317,152.00

The HY10 and Hy11 5&7yr have outperformed the on the HY indices but not as much as could have been expected; this is an additional hit of 150M\$

	realised	theo	diff	Size	Éloss	P&L	
HY 10yr	51%	56%	-5%	. 5	0.0714	-	17,850,000
HY10 7yr	25%	33%	-8%	2.3	0.15805		29,081,200
Hy11 5yr	42%	45%	-3%	. 9	0.0981		26,487,000
HY11 7yr	18%	28%	-10%	4.2	0.18016	-	75,667,200
					TOTAL.	- 1	49,085,400

The tranches were hit here and there in unrelated ways edding 65M loss that can easily reverse

- 1- 10Bin 10-30 IG tranches lost 0.2% vs delta (2 Bid/Ask) = 20M hit 2- 3Bln Hy 15-25 lost .5pts recently in an related way = 15M hit
- 3- 3Bin 0-3 ig9 5yr lost 1pt in overshoot = 30M hit

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Core Credit Book: Summary

- 1- Ideally, the Book needed an extra 30M CS01 in (G : this is a cost opportunity of 1.2 Bln due to the 40 bps raily in (G
 - this long risk shows naturally in the spread tightening and with the coming explry of the short term S9 leg
 - it triggers an increase in Var- stress Var- CRM- IRC-RWA across the board if we maintain the book balanced
- 2- the need to reduce VAR RWA and stay within the CS01 limit prevented the book from being long risk enough
 - as we bought protection on HY in the raily, we kept the 10%CS01 neutral to slightly bulk
 - the slight bullish bias was dwarfed by the exposure in the forwards that kept increasing to protect the P&L
- 3- Thus a decompression trade was put on in order to remain market neutral, but it increased the CS01 very fast
 - as a result a decompression trede built up both in CDX and ITRAXX : it is a good trade that performed well -yet, selling more protection in IG to balance the protection we bought in HY put us close to the CSD1 limit
 - -yet, sening more protection at its to belief the protection we bought at HT put us close to the CSDT minit
- 4- The long risk exposure would likely have missed the first 15 bps and the realistic P&L, miss is rather 800M USD
 - despite the conviction on the railty in IG spreads, we needed to sell 108in in main and 308in in IG ideally which is a significant bullish bet
 - -in early February and early Merch, when spreads widened back, the book would likely have suffered a weekly loss of up to 200M each time: this was not an acceptable P&L noiseSo the long would have been implemented slowly anyway
- 5- carrying this long risk exposure would have triggered some brutal P&L swings of 100-200 in early February and March.
 - the book was aiming at fine tuning the P&L noise while reducing the risks and the notionals on opportunities
 - the losses coming from the IG forwards were already wild, so we waited before being outright long risk for fear the noise would just increase more

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Core Credit Book: Risk Management and execution mistakes

- 1- The reduction of the 5yr IG9 and S9 early in January turned out to be a bad move : forwards under
 - initially, sell 5 yr on a roll basis vs on the run KG indices allowed to reduce the short, improve the carry, reduce
 the sensitivity of the book towards flattening and pre-empt a lightening in IG spreads without increasing CS01.
 - the market players quickly steepened the S9 curves starting the underperformance of the forwards: because the slight long risk bias was insufficient to cover the loss, we added back some flattaners to correct the hit.
- 2- The Kodak default triggered a second wrong move : the HY short risk added to the forward underperformance
 - The loss was 50M and we started covering the risk in February by selling HY14-HY17 indices that contained MBIA, Radian, MGIC, ISTAR given that RESCAP risk to default was growing.
 - However, by selling those series and targeting the "mortgage & insurance" related names, we aggravated the underperformance of the IG9 forwards because they contain MBIA, Radian and ISTAR
 - As a result, those names underperformed the whole market. Thus the decompression trade worked but the iG9 forward especially underperformed in the rally and this is where the main long risk of the book is.
- 3- The Xover / Main decompression trade....likewise it finally started a leg in Main itraxx S9 forwards
 - - Due to the need to contain the RWA-Var complex, we sold protection on main while buying protection in Xover - This was a way to profit from either el recovery in Europe IG space without increasing the CS01.
 - The decompression in HY and Xover sped up in March and this put the book short risk and worsened the loss in the forwards
- 4- The carry was overestimated; the duration extension due to the low rates and the quick IG tightening created a long risk that should not have been hedged and that amounted to postpone the carry further in time.

What would have happened if none of these bad moves were initiated?

- The decompression would have happened enyway and the forward underperformance may have been twice smaller or down 750. All these mistakes induced an increase in the forward positions to contain the P&L hit.
- If the book had gone long risk fully, the Var would have increased and the RWA as well : likely 20-25 Bln RWA
- -The carry would have improved and the book would have had twice a weekly drawdown of 200M

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CIO SYNTHÉTIC CREDIT UPDATE

Core Credit Book: Computation of the extra CS01 needed for the current book 1- the IG9 and S9 forward decompression and the duration extension created a 20% (10% duration increase, 10% spreads decompression) increase in duration that should not have been hedged : 12M \$ CS01 - from Main S9 forwards that amounts to 3.2M \$ CS01 - from IG9 forwards this amounts to 8.8M \$ CS01 2- The duration extension and decompression in HY and Xover legs should also have been anticipated as 20% (10% duration increase, 10% apread decompression) increase in the longe risk IG : 10.5M \$ CS01 - in Itraxx Xover/Main, this amounts to 2M CS01 - In HY/IG, this sums up to 8.5M \$ CS01 3- The tranche deltas increased on the short term equity and decreased on long term super-seniors : 9M \$ CS01 - in itraxx, the deltas moved : 6M \$ CS01 *-10x in 0-3 S9 5yr (2Bin) or 10Bin on the run index : 5M CS01 \$ *--0.1x over 20bin on the run index equiv. : 1M CS01 \$ - in CDX IG the deltas moved : 3M \$ CS01 *-10x in 2bin 0-3 (G9 5yr or 4Bin on the run index ; 2M \$ CS01 *-0.1x over 25bin on the run equiv : 1M \$ CS01 4- target 10%CS01 : +250M in 10% CS01 tightening - currently the book trades at + 133m\$ on this scenario - anticipating a further similar tightening and decompression, the book should carry today a extra long risk of 25M \$ CS01 - given that Main (25% at 125bps) and IG (75% at 90 bps) weighted spread for IG would be 100bps, the book should run with e -10% CS01 of +250M \$ P&L gain - this amounts to another 20Bin 1g18 and 6bin Main S17 sale of protection J.P.Morgan 12

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Core Credit Book: Management of the CS01 2012 1- The long risk exposure that resulted mostly from duration extension and decompression was covered with a short risk in HY - This allowed to cover the downside on defaults in HY names - this is not an irreversible loss as it would have been if we had covered the long with IG protection 2- The increase in Long risk coming from a longer average duration, the RWA and Ver increased too even if the directionality was limited - Instead of reducing the burgeoning we should have doubled it; this would have increased Var and RWA by 10% every month - Using the HY as a way to reduce the directionality worsened the P&L issue with the forwards 3- We should be very long risk in IG going into the expiry of the IGS 5yr to offset the loss of carry - we should be short risk in all IG equity tranches so that the transition is smoother through the expiry

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Core Credit Book: The path to recovery....

- 1- The overshoots could reverse atthough this would not be necessarily stable. Yet, optically the YTD could easily improve with no change by up to 350M
- 2- The duration extension resulted in a long risk that has been covered and should actually stay in the future
- 3- The extra long risk exposure would overall set the book up 250M in a 10% CS01 tightening move : this will increase the RWA by another 5 Bin unless we use structured notes to offload part of the long risk. The tranche trades should help reduce the future RWA measures.
- 4- The P&L will face 100M temporary drawdowns for a net cerry of 2-3.5 M USD per day.
- 5- We still need to buy 5Bin 0-3 IG9 10yr and 2.5Bin euro 0-3 98 10yr. This will allow to us to freeze also the trading on tranches and help reduce the RWA forward measures without acting on the book other than rolling the long risk.

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6- the advent of default will be a P&L positive all the way to the expiry of the book.

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From: Grout, Julien G-globing grout@groutness com-Sent: Tue, 10 Apr 2012 2013 09 GMT To: GIO GROUTNESS CHOCK CHOCK COMPONING Growthese com-CC: GIO PAI, Team (GIO, PEI, Team@growthese com-subject: GIO CASE Credit Peation: 10 Apr-12

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PARK FRISCH SEFFOR	-462,000,000	462,000,000	G		24.9	4\$41K / bp	16,296	790.8	
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PART FRISHB STREET	-879,000,000	-679,000,000	a		+24.7	·EDIOX (be	112,964	520 5,074.1	61.256.5
TRACE PRINTERS STEEDY	1,141,875,000	1,141,875,000	Ó		+24.5	MISK/BP	309,193	11,363,4	(g -143,745)
FRANK FRINGS NEVERY	-398,125,000	-386, 125,000	0		+24.4 : 12	+\$182K/bp .	739,606	4,872,0	62 4 2160,218.6
THAKK FIREUB SECON	915,250,000	815,250,000	d		207 KB	#511K/bp .	相關	11,861,1	51 AC 1980 45,897.1
RAAL FILISUE S1/ GOT	671,250,000	621,250,000			122.7	-\$381K / bp	133 143	-8,893,5	34 (010
							77,142	-13,385,8	24,101,2
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RAYA FIRSUB SIT HAY	-11,625,000	-11,525,000	٩		12 +25(6-73)		1	120 1 2 1 1 2 4 8	
RASK FRISUB SOT 104	. 0		o		1. 水线 施政	15 1		F 15	** SE 1004 E 2
RAXX FIRSUB SECURY	-46,000,000	-85,000,000	q		1 150 5 500	155.9K / bp	147	96.5	
IRAN SEIDUB IN 194	. 0		q						20 種種 (B)
RATE FINSUB SOCIET	-211,500,000	-211,500,000	9		24.6	+830K / bp	10,535	4 () 106,3	
					+24.4		10,635	-10.6	
TRAKE PHISUB SOJ 191 TRAKE PHISUB S10 054	-138,125,000	-138.125.000	4		24.8	F75K/bo	30 MZ	814.5	

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

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ITRAXX FINSUB STOLES	0	0	0	+24.6	89,674	\$9,67	761,057
ITRAES FIRSUB 514 Nov	163,125,000	163,125,000	a	k -24.5 deen i in	8 63,219		
STRAKK FINSSIB SID ALY	-56,875,000	-66,875,000	o c	5 +24.4 +920K/bg/	30,073	508 35574.5	43,057,000
PRAKK FIRNUS NOS ULY	130,750,000	130,750,000	O C	+24.7 -873K / bp	143,671	1,860.05	
ITRALA FIRISUB STUDY	90,625,000	90,825,000	O	+24.7 -856K / bp	120,257	1.457,02	
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TRACK GRISO, 167 TRACK GRISOF 167	735,753,636 9,237,152	735,753,836 9,237,152	0 0 0	111.5 150 2400K/bp	1237	£ 4,545,91	60 343 634 6721,000
TRACK ON NO. 108 TRACK SOL SOF 169 BACK ON NO. 303 SAKK SIN M.S. 104	735,753,636 9,237,152 -281,851	735,753,836 9,237,152 -281,851	0	\$ \$11.5 \$400K/ bp \$11.5 \$2 \$5 AK / bp +11.7	123.627 13.411 13.411	1,545.90 62,10 24 336,10 856, 84,102.00	40 1834 6771,000
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OTRACK GREAT THE THE THAT THE THAT THE THAT THE THAT THAT	735,753,838 9,237,152 -381,851 72,753,247 -42,550,601,554 -40,157,174 22,897,197,956 17,500,000 -3,218,344,319 2,400,325,462	735,753,859 9,237,152 -281,851 72,283,267 -42,553,801,854 -40,157,174 22,987,197,959 17,200,000 -2,218,244,319 2,405,325,462	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15 30	750.662 1.576.750 1.576.750 1.576.750	1 4545,94 42,102,04 46,102,04 46,102,04 42,003,04 42,003,04 42,725,04 42,725,05 42,725,05 42,725,05 42,725,05 42,725,05 42,725,05 42,725,05 42,725,05 42,725,05 42,725,05 42,725,05 42,725,05 42,725,05 43,725,05	60 241 534 571,000 581 581 581 581 581 581 581 581 581 581
OTRACK GREAT THE THE THAT THE THAT THE THAT THE THAT THAT	735,753,838 9,237,152 -381,851 72,753,247 -42,550,661,554 -40,157,174 22,897,197,658 17,500,000 -3,218,244,319 2,405,325,462 -537,984,916	735,753,856 9,237,152 -72,93,247 -42,553,801,054 -40,157,174 -22,987,197,496 17,500,000 -3,218,344,319 2,405,325,402 -537,364,916	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2(1,5 %) 34000 km (s) 11.5 % (s)	12,411 1750,652 1,576,756 1,576,756 550,656	1 454554 60102 60610 60610 6062 6102 6102 6102 6102 6102 627256 627	60 242 534 67 1866 672 534 67 1867 1877 1877 67 1877 1877 68 18 18 18 18 18 18 18 18 18 18 18 18 18
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CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

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TRAXX XO 51/ 65Y	78,750,000	-78,750,000	9		457.9	(+\$37K/bp)	383,717		224,995,895
							363,717	100,000,(2	224,880,880
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ADJUSTMENT SOVE WE SON FOR	43,750,000	43,750,000		_	15.9	-\$18K / 50	4901	48.00	
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							4,501	40,00	-7,00,700
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MRASA GREEN STORY	-702.617.450	-265,867,455	205.354.486	*	1115	+\$35K / bp	200	382.76	1 20 1 Water 56 287 545
STRANK CONSTRUCTION	115,000,000	345,000,000	100,004,440	4	HEATS	+8256K / 25 pct	750.36		1 17 19505 - 1307,676
TRAXX GN 555 16Y 65 HG	150,000,000	693,750,000	-148,801,787		+0.64	4375K / .28 pc1	44.581	-893,01	25,081,954
ASS MIN 516 10Y 05 05	20,000,000	-85,000,000	6,505,929		+0.714	450K / .25 pcl	28,424		
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STRAIL 639 575 127 22-129			-7,366,771		+3.4	\$9.5K / bp	83,030	85,71	
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ITRAXX 631 Se/ 10Y 09-17		۰	4,662,714		12:4	1.34 1.1.1	1.32.811		
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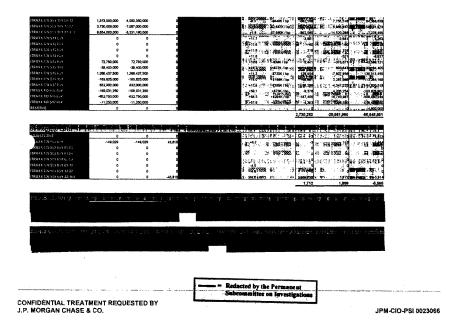
CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

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TRAKE (2015) 0 16V 22-769	0	. 0	-23,514,086	4: +2.9 433K / bp	-81,39	2,261,642
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					452,48	4 -702,903 50,755,267
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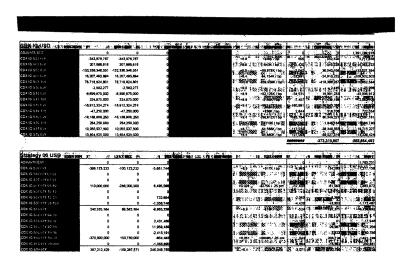
CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

ORDER MANAGEMENT OF STREET			-89,353	\$ 50	1 - 55 m . M.	500000000	9 A G	NA PER ST 1001
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ITRAKA SIN SCOPOT PORC	Ç	9	9	-2-		4,536	1 188 TRES	1
STRALL DIN SOT OUT DEMA	٥	0	-70,341,151	,	S67 98	18.615	39.5	6 1.461.736
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17 RAKK 139 519 614 22-161		0	-53,026	4 名	g C. (47 €)	EM.	100	1512M 11414
STRAFA SIN NO 10V	12,500,000	12,500,000	0	• •	6.9 15-39-2K/bp	2,692	137.1	10 7 × 11,737.286
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2TRAXX 11N 516 057	-16,000,000	-15,000,000	9		1.3 +30 2K / bg	1,735	1 100 100 200	1,887 922
						13,527	-63,88	1 1,228,806
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AGJUNTGERT	0	3				418,000	418,0	363,300,725
FO ADJUSTMENT			2	* 3a	\$45860 KP + 1	188	4,600.0	190 CO. 000
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BAXA FIN SEA 197			2	6.41		L. 3		2070
STRATE GIR NOST-ST	17,136,947,770	3.890,357,770	133,178,249		1.5 (1.500 K/bo	245,763	3,984,1	207.475.69
ITRALA MA NEPIEST BLES	-850,000,000	14 025 000 000	0	5-0			505 Sere.s	4.200
ITRAXX ON SEPTIME ULAN	-600,000,000	2,800,000,000	67,394,686	. 40.			425,8	
ITAAXX SIII SEEGSY 65-69	340,000,000	785,000,000	70,805,508		257 \$850K / 25 pct	955	802.5	
ITRAXX COUNTY GOV HOLD	315,000,000	441,000,000	-5,978,642	4 R	5 S. Casce/bp	W. 17	170.21	
11RAAA 529 559 558 52-72	475,000,000	451,250,000	7,295,613	2 - 59	012 PRAID	200	230,61	20,510
ITRAXX (3R 50> 6\Y 22-10)	12,294,000,000	-1,721,160,000	3,505,173		0 41,943K / bp	2,937	1,507,9	
STRAIL SON SURFICE	-3,739,841,723	265,058,277	0	+1	5,1 -\$108K/bp	118 127	1.669.3	123,290,430
FRAIN FOR SUNDAY IN CIT	496,000,000	-2,131,500,000	o	370	995 \$1,015K (,25 pc)	3, 223,500	. 27 278.0	64.4M222
TRAXECTS SOS FIT II LOG	-160,000,000	990,000,000	0	, +0	232 +\$490K / 25 pcf	81,401	1 30 3	953,422
11893 # FRN 559 67Y 05-05	-25,000,000	125,000,000	o	` •	52 '+853K / '25 pict	8,623	2 20 2 18 6 S	1,32,23
STRACE FOR DISPLOY UP 17	180,000,000	-594,000,000	q	: 4 1-42	7 : 470K/bp	:- 12,313	507.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
21R47 X GHF 56 2 57 Y 12 22	-450,000,000	787,500,000	D	4 %	1 . 25 P\$184K / 50	Ban A	141,8	
11RAX (500 500 U/Y 22-104	9,850,000,000	-3,152,000,000	9				-5,526,91	
IFARE CHIST - Nov	13,812,418,871	3,811,091,129	o		8.9 % - \$12.667K / bp :	483/976	44,844,00	
MRANGER BOSTON BORD	-1,013,000,000	2,379,250,000	٩		437 - +82,653K / .25 pci	970,830	5,498,0	FR 151159398,834
FRARY LIU 50% 19Y 03-04	55,000,000	206,250,000	c		D13 4138K / 25 pct	175.061	184,1	5317438
PTRAKK LIN SOU 10Y 06-D9	864,000,000	3,038,000,000	0	***0	18 -\$2,170K / 28 pcs	F:: 449,25d	1,1315/80	65,874,797

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CQ.



 Redacted by the Permanent Subcommittee on Investigations



CONFIDENTIAL TREATMENT REQUESTED BY I.P. MORGAN CHASE & CO.

CDA IG 559 64 Y 63-53	۰	0	d		1 530 1 %	pr and	1 1 1 1 1 1 1	μ×.	15 101	\$ 137.547
COXIG NEVEL Y 03-54	0		-217,812,389		1 WAINS	6 F	200 100	k &	1277 22 138	3 873 Pes
CDX IC NO 678 N)-15	-135,000,000	526,500,000	-21,708,374		0.310	+\$338K / 25 pt	3 7.12		08,752	10,609,774
COX IG 509 678 16-15		0	24,210		30.7 15		3 7 3	11000	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4,732
COX IC \$69 021 15:59		0	5,737,141		3"	2. 8021783	- an	256.2 as	s.s.fo	, i steep
CDX 10 500 071 00-160	٥		-815,072		9.1	بارود دني	- 19,056		24,969	348,000
CDX IC 509 107 38-160							2,331		2,331	4,313
							-21,336	47	4,413	-673,796
Strategy#2.USDE	1 9272 (8805 1 7	1 100	CONTRACTOR OF STREET	100 Card 17	1 100 100	1 1	i MESIE	u .	11 126 / 200	1.45
ADJUSTINENT	0		d			·	1		0	
CDX IC SUPPLY	-2.041,122	-2.041.122	18 176 593		+5.5	-81.1K / bp	366		4.783	8.375
CDX (G Signify) (mark)	0	0	0		2		2.021	 800 300 	2.021	1 100
CDX IC SHREWFIRE (I	0	0	16,804,875			4 828 135	17,824	1 8271125		1 31803
CDA KG SKIP BIT BY BY		0	-797,748				2,536		-soci	24.760
CDX IC SID INST 12 IV	c	0	-315,218		1.0	119881.	18.5	24 17 17	7 62 94	333,636
CDA IG SIMMOY 15-57	ė.	٥	-260,851		打 化红霉	k 7	: 12220	2.2	2414261200	\$136,013
CDX IG SIMBOY JP IA:			a						d	
CD# 10 505 07Y	-226,537	-226.537	368,115		* ****		. (22)		-218 Aler 1 121	
DX IG Substit to	0	0	o o			10000	1. 12. 180	1 377 2	ા તે છે. દે છે.	进伸柱
s 10 509 67 r 02:07	0	0	a		7	1 38 393	de c	A TEXAME	z. 39.	3 1885 F
A IC SUNFIY 67-10	0	٥	q						- a	
CDX 1G 509 07Y 16:15	0	0	a		25	10.000	P1 0	2 300 300	7 Tel	1 3366
CDX IC 505-077 15-30	0	Q	-368,115				(2 (5.6)		-1,135 75 T.	4.149
CDX IG 589 0/Y 30-169	0								<u> </u>	
							-22,582	. 4	4,364	1,021,900
Strategy[14 USD] (*)	17701 43 054	41 109400	· 李智/4/2015年中華	BEEFE BASING	16,98 16	012±4879 8.41	Sawy E	\$1549.85	311011 18	131,723
ADMINISTED	0	8	d		7.	20 (50)	I	: 37V 59W		
CDX IG Settlear	-7,537,807	-7.567.807	13.716.347		+55		112		1 569	5.726
CDX IC NIKESY (4.4)		0			, ·	2 18 18 AS	797	0.088340	797	3 187
CDX IC 595 9 a c e c e c		i	9.905,587			1.0	b-10.256		-7,489 L (1 1 5	178,390
CDX IG 5:0 P5Y P7: N		ō	-3,767,276				10.90		3 981	120 074
CDA IG 5111 0 var 10 t5	c		o		· 45/1743	iz /	Tell 1	6.3.	220 300 300	2 220
CDX IG SERBYT 15-05	9	٥	202,097		71386133	sik	1255390	1.54	5,500 1857 186	E97.534
CDX IG SHYRYY , p tr o			245,570				4.790		4,777	1,007,286
CDX IC 505 9/T	0	0	0		-6.4		1,606		1,600	18,490
						. 1 act (186)				

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DA 1G 559 07Y 85-07				. 18 at 4	1975	2570 SOLEMA 2531.5
DA 10 507 077 0507	0		3	7 SE - 58	1007 NAME 1	See 225 Comp From
DE 1G 513 174 17-17			3	1 250, 1350	3.065	3.695 24.1
DAIC STUDIE	2.542,277	2,582,277	-4.489.285	+9.0	1	1,806 25.2
OF IG STREET 62 TO	0	0		310, 300	to usuad 1 %	V 16.162 3 200
DailG Stylent (c. 0)			5.762.804	\$ 32.00		
			-1.273.519	W 0.000 TEV		-3.031 2
DAIG Steep test:		0	o c	1000	- 1 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	. Children to ber beiter
	٥	0	4	f Shirter Fr	D-3-120	24 2000-2000
		0	9		(a	d
DE IC STR TOX	0	٥	of the second	* *** *** **	CA-2489	2187 60 966 275,0
DX IG N47 IInt	0	0	o o	.~ +0.0 ± 5.	3,214	
Ox (G 51) 65Y			9	+8.0	3,952	3,952 -12,9
					22,869	8,640 4,121,73
Strategy 16 USD	PROTESTA	Mary SERVER	CONTRACTOR OF THE	profesional particles for	48127 539757	a monda inical
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0X (6 5/9 for	-405,545	-405,545	15,672	, ASS	res saf	100 NE 1908 DE "
EBK IG Shirth book	0	0	d a	a sacrata as		. q
\$ (G 5//5 to 7 to 9/	0		9		1 0° - (d) - (1)	(1) 11 [1 4] 20 医乳腺腺素
St 1G 5.15 1-14 (57.10		0	q a	3 1983	4:5	ाशक ती स्टब्स
DX (G \$30 854 18-1)	۰	, ,	a a		1 a	Q .
		0	9	7 2 2 2 2 C	्र वी व	शक्क द्री व अवस
DX (G 569 to 4 30-10) DX (G 569 to 4 30-10)	٩	0	-15,672		1,104	eeq
	QQ_		-15,672	· · · · · · · · · · · · · · · · · · ·	1,108	
DA IG 509 814 30-160	s water cons	: 4 88	-15,679	l de serventem e .		
over see my see no Strategy Tit USD**	-	: : : : : : : : : : : : : : : : : : :		1 14 14 14 14 14 15	-1,109	-874 -40,71
	i mora i consis				1,100	874 40,71
Strateg/18 USD*	s ##€2:125± 6			5 5 No. 1389	-1,100	974 40,71
Strategy is USD in	6 MES: (25.5 6	0			-1,100	874 40,71
Strateg TB USD *** Strateg TB USD *** Strateg TB USD *** STRATE SHOULD STREET STREE	6 MF3: LESS 6	0 0	0	5 5 No. 1389	-1,100	974 40,71
COLUMN 20-MA STRATEGY B USD ** CORDITATED AT TO SECURITY STATES COLUMN STATES AT TO SECURITY STATES	6 385 x : 125 x 6 0 0 0 0 0 35,289,927,718	0 0 0 4,647,663,263	0 0 0 4,30,065	7-5-5	1,100	474 40,7
DATES OF BUILDING STATES OF THE STATES OF TH	6 MES: USA 6 0 0 0 35,289,927,718 -1,184,000,000 -1,395,000,000 -1,695,000,000	0 0 4,847,862,362 35,502,000,000 5,206,500,000 596,500,000	0	7 - 50 1328 7-55 - 5529(16 0.50 - 5529(16)	1,100	474 40,7
DATE SOLEN TO THE STATE OF THE	5 786 × 165 × 5 0 0 35,289,927,718 -1,164,000,000 -1,895,000,000 -2,405,000,000	0 0 -4,847,662,362 35,502,000,000 3,206,500,000 566,500,000 240,500,000	4,190,005	-5.5	-1,100	-574 40.7 -574 40.7
DATO SCORES AND AND THE DESCRIPTION OF THE DESCRIPT	6 MES: USA 6 0 0 0 35,289,927,718 -1,184,000,000 -1,395,000,000 -1,695,000,000	0 0 4,847,862,362 35,502,000,000 5,206,500,000 596,500,000	0 0 0 4,30,065	-5.5	-1,100	474 40,7

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

COX IG SAN OFF 65-33	785 000 000	-8 949 000 000		 D374 5 4149		5.50MP 12	2.179.561 FRA DOM	6
COX IS SERVICE OF	785,000,000 -215,000,000	1,978,000,000	2	0.374 -45,49 40.3628-00 +6538		2,001	799,030	
CDA 16 569 1/27 07 16	465.000.000	331,500,000	255.953.409			9,952	71,070	
COX IG 569 07T 16-15-	-1,970,000,000	3.349.900.000	433,333,400				1,611,340	21,375,319
CDX IC SEVERY 19-19	-8 985 DOD 000	4 179 000 00E	2,765,316				1845,609	58.360.076
COX IS SOVER Y STARK	5.500,000,000	495,000,000	-610,185				3295.229	12,047,452
COX IC 545 ToY	3,413,024,577	8,895,984,577	010,780			7,032		195 050 700
GDX IG 509 107 0703	-580,000,000	2 464 000 000	ă			1183		14 156 250
CDX IC S IS 15 Y U. 57	137,000,000	-659 000 000	, a	9,365 (10) 4949		NO. 1	357,252 00: 130	
CDN IC Service on to	2 000 000 000	10 842 400 000	à		NC / 25 mm 100	4 014		124,382,484
CDX (C 563-164-16-1)	-1.301.000.000	3,903,000,000	3		3K / 25 pct	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 352 Mg 201	C294 631
CDX IC SID TOY 15-20	-2,681,000,000	3,458,300,000	à			4,600	4.062,855 1.5 1.5	6710,630
COX IC Set 10Y and the	7,116,000,000	1,707,840,000		-0.179 -517,15	8K / 25 pet .1,3:	7,926	-10,914,695	53,049,557
CDX IG S IN 65Y	0	0	0	+8.0	\$ Ac	9 -1 -22	37-469 Sp	18 1206.5
CDX IG 512 to Y	٥	0	d	Ø.+80: ©	3 B 3	t 301 : 53	0 (17% 36)	1 596
CD1 10 51J 654	٥	e	o d	+B.9	- 1 10	2.002	12.2802 0 4 1 5	0 82 39.447
CDX 16 511 051	-957,125,000	457, 125,000	9		D4K/bp	8,849	2,593,639	12,127,752
GDX (G 514 toy	32,125,000	32,125,000	9		4K/bp☆ 開	399	-170,b63 WI (198	£ -1200.500
COX IS 5 15 KAY	-2,264,562,500	-2,266,582,500	0	: 634,980 C**	25K/bp / 105	(1) March	7.517,450 2015 00	20,907,680
CDX 40 S15 10 F	-6,750,000	-5,750,000	0	+0.5 +55			45,244	-1,980,642
9X 15 536 95 F	-773,187,500	273,187,500	q.		12K/be	1,596		107 610 180
X 10 5 26 113	37,750,000	37,750,000	9		OK / 500	0.151		29.145.007
CDX IC 517 GVY	1,127,812,500	1,127,812,500	9			2334 3 05	4,013,227	100 044 773
CDI IG S18 IISY	1,867,625,000	1,867,625,000	ol and	 0.9 100				
					1,91	1,541	76,573,382 2	252,233,481
5 . F								
ADJUSTMENT	0		0		-	-	9	-235,853,915
COX MY SQUULY	\$3,286,249	53 286 249	0	0.602 +3112	K / 25 pct	107 - 3	427,383 54 50	312.636
CDX HY SHE OVY	-11,175,078,791	-11,175,078,791	d	5-0.083 -\$23,46	BK) 25 per 27	117 7 18		127.500240
COX MY 563 GIV	1,310,261,833	1,310,281,933	o o		2X / 25 per	d	-5 042 734	
CDI MY 500 UVY	-743,844,158	743,844,155	o	0.167 -51,54	1 25 pct "	101	835,834	1,1947
COX HT 540 est	1,714,500,673	2,714,500,673	٥	*; -0.342 +\$5.70	0K / 25 pet	2741 : .:	8,000,340 41 76	63,873,300
COL HY STUDEY	2,612,540,226	2,512,540,226	a	1,23 +55,46	6K / 26 pot 25	138	25,909,210 255 1 329	12,379,824
COX HY 511 UVY	7,795,721,173	7,795,221,179	a	0.477 +\$16,37		2,343	28,190,456	175,556,250
CDX HY 5111 TY	3,560,098,738	3,880,098,738	a	3.508 F.C -54,10	6K / 25 poi 🚟		-30,174,798 TA 1.00	A 42550 632
COURT NITUST	-65,625,000	-65, 625,000	0	0.548 - 9169	K / 25 pct 14	49	184,480	11,007,000
CDX MY 539 057	-10,891,125,000	-10,891,125,000	a	1.235 \$25.41		8.713	124,720,711	7.523,003
COL MY 5 to 05T	-8,588,125,000	8,586,125,000	٠	 Fig. 299 -820,83	6X / 25 pet 1	6.214	103,652,380	6- 084 500

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

X HT 51/ 19Y	-5,050,525,000 -7,036,587,500	-7,036,887,500	ā		4304 394	414,673K / 25 pc 417,054K / 25 pc	5423340	2 9 106,714,985	M (March 1888)
X LCDX 510 051	-780,751,015	-780,251,015		 <u></u>	0.026	-\$1,346K / 25 pct	615,637	325,938,481	
KHY Session		<u> </u>	، <u>قيط بند</u>				170	And the	6 . 3
CHY Sold on a contra	,	8	37,822				रुव दव		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MY 552 (C4 10 1)		ň	ä		1 30	31	3,00	3. Bi - 13.	翻译题 影
HENGS for they		·	ä		5 456 : 504	(C) (525 (50)	₹8 - 3m	BE MU Mis
NY 598 15Y 25-04			-37,822			34 1 W	286		1 1631-000
H4 200 003 00-100	۰		, o				1 1		-94
HY 503 07Y		0	a		4	1,141,552	1,105	10 A 300	- 15
HY 568671 75-35		0	a	 		4 4 1 1 1 1 1 1 1 1 1	433	1207 1 G.S. 630	
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34.4.3									
HY SUP D/Y	0		0		CON LYBE	4 13	23874	13.40	AND SHAPE
							13.400	13.400	-192
							13,409	13,408	-192
							13,409	13,401	482
· į 3					į.		13,409		
. /. (\$ USTMENT			9						3,707
. /			0 05,998,880	•	40.962	+\$77K7, 25 pos	*	-101,58	3,757 14 ta 1 2917
/_ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-53,286,249	-53,286,249	0 85.998.880		1 -392 : 3252	+\$77K7.25 pct	201 : 50 10 con		3,767 13 (12)1391 20)1281 EF
	-53,286,249 0	-53,286,249 0	0 65.998.860 0 63.741,374				*	-101,58	3,767 12 (2,125) 28 (2011 F)
USTREAT HY SOL BYY HY SOL BYY HY SOL BYY SOLIA HY SOL BYY SOLIA HY SOL BYY SOLIA HY SOL BYY SOLIA	-53,286,249 0	-53,286,249 0 0	9		1 -392 : 3252	+\$77K7.25 pct	#3 ; M	-101,Sa	7,000 10 100 10 10 100 10 10 100 10
USTINENT HE SOL OFF HE SOL OFF HE SOL OFF TOUR	-53,286,249 0	-53,286,249 0 0	0 0 453,741,374		1 32 120° 1 62 68°	+\$77K7.25 pcs	201 : 50 10 con	# \$ 1001,080 # \$ 100 8 30 84,155	2007 2018 2018 2018 2018 2018 2018 2018 2018
A JASTINEAN AN A	0 -53,286,249 0 0 0	-53,286,249 0 0 0	0 0 63,741,374 490,600		1 30 130 1 23 150	+\$7/K / .25 pcs	9 cos	1 101,584 1 1 1,54 2 2,755 2,755 2,755 2,755 2,755	3,707 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
USTNESS HYSIGAN HYON H	0 53,286,249 0 0 0 0 0	-53,286,249 0 0 0 0 0	63,741,374 -490,800 -1,755,887 0		1 - 330 1300 t 1 - 600 1300 t 2 - 600 1300 t	+\$7/K/, 25 pcs	77 406 833 (10) 20 737 11 674	100 jac	3,000 15 12:15:01 20:18:01 10:18:02 13:12:16:03 13:10:16:03 14:16:03 16:16:
USTINENT HT SUPERING CONTROL OF THE SUPERING CONTROL OT THE SUPERING CONTROL OF THE SUPERING CONTROL OT THE SUPERING CONTROL OF THE SUPERING CONTROL O	0 -53,266,249 0 0 0 0 0 0 0 0 0	0 -53,286,249 0 0 0 0 0 0 0 0 0 0	0 0 63,741,374 490,600		7 0494	-\$77K7, 25 pcs	37 (a) 353 (a) 363 (a) 37 (7) 11,676	1 101,584 1 1 1,54 2 2,755 2,755 2,755 2,755 2,755	3,000 15 12:15:01 20:18:01 10:18:02 13:12:16:03 13:10:16:03 14:16:03 16:16:
USTREAM WE SHE VALL WE SHE VAL	0 -53,286,249 0 0 0 0 0 0 0 0	0 -53,286,249 0 0 0 0 0 0 0 0 0 152,537,965	63,741,374 -490,800 -1,755,887 0		62. (40) 0.400	+\$77K / .25 pcs	1 200 1 200	100,586 5 34,555 9,445 9,445 9,445 100,700,700	3,07 13 (2) (3) 20 (2) (3) 20 (2) (3) 20 (2) (3) 20 (2) (3) 21 (2) (3)
USTINENT HT SWITTER CONTINUENT HT SWITTER CO	0 -53,296,249 0 0 0 0 0 0 0 -1,293,692,035	-53,286,249 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 -63,741,374 -490,800 -1,766,887 0 137,385,644		0.4M	+\$77K / .25 pcs	77	7 101,580 7 101,580 2 2 24,550 2 30,480 2 4,480 2 5,480 2 5,	25 14 15 15 15 15 15 15 15 15 15 15 15 15 15
25 UST 100 HT 500 HT 50	0	0 -53,286,249 0 0 0 0 0 0 - 0 - 152,537,969 0 30,000,000	0 -53,741,374 -490,800 -11,795,887 0 0 137,381,644 0 0		23. 320 23. 320 24.44 2.44 2.44 2.44 2.44 2.44 2.44 2	-\$77K7,25 pcs	77 450 12 12 12 12 12 12 12 12 12 12 12 12 12 1	100,586 5 10 34,555 9,445 100,7000 9,445 100,7000	100 mm (1) mm (1
USTINENT HT SUPERING CONTROL OF THE SUPERING CONTROL OT THE SUPERING CONTROL OF THE SUPERING CONTROL OT THE SUPERING CONTROL OF THE SUPERING CONTROL O	0 -53,296,249 0 0 0 0 0 0 0 -1,293,692,035	-53,286,249 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 -63,741,374 -490,800 -1,766,887 0 137,385,644		0.4M	+\$77K / .25 pcs	77	7 101,580 7 101,580 2 2 24,550 2 30,450 2 4,500 2 5,500 2 5,	3,000 FI

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								11,544	-1,60	x),365	81,507,230
NOWSTILEGE	0	0	0			80	· 375 -263	4 (1754 536		518 63436
DX HY SOZ 45Y	29,151,616,808	-229.583.102	427.939			Z-0.002		1			
DX HS 5x3 x5x 60-14	0		a d			Z:	PARTY TO	1.	16 946839	5.7	\$, alth
DX HY 1983/57 59-12	-1.485.000.000	27,175,500,000	a			0.217	\$1,927K / .25 p	11.622	1.0	63,210	1 17,005.44
OX HY 568 VSY 15-25	-1,410,000,000	1,269,000,000	-239,370			+0.031	41,529K / .25 p			71,578	#G-330 FD
DX HT SUSPET 20(2)	663,000,000	-86,300,000	-9,478			0.005	+\$1,658K / .25 p	a 717.03			
DX HY 500 057 35 100	-100,000,000	3,000,000	-179,091			0.002 %	\$238X / 25 pc	18 do 180	3.5	88.717 (RF	Mar. 11
07 RY 502 6/Y	-3,281,187	-3,261,187	5,933,695			42,498	+\$5.0K / 25 pt	2 135		12,428	15:23 MP
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CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

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COA HIS STREET 18-15	565,000,000	-1,508,000,000	a		0.29	1: +8475K (.25 pct	200	520,71	10 PER 17651 820
COS Hy System by 15-25	2,083,000,000	-11,456,500,000	-134,503,474		- , -0.069 .	+\$5,206K / 25 pc	149,088	2,476,04	337,873,866
CDx Hr Stylebrigs-3s	655,000,000	720,500,000	-1,945,129		0.273	+\$1,638K / .25 pc		1,811,43	N 30,321,703
	3,970,000,000	462,500,000	4,127,281		. ×-0.002	+\$9,516K / 25 pc	45,171	207.03	11,367460
CD4 HY State of	-2.093,103,856	-678,003,058	191,133,941		₹ -1.23	\$1,024K / .25 pc	252,376	4 (82) 4594,10	103,018,789
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CDX Hx 51c U/Y 1c 15	890,000,000	434,000,000	a		1 -0.433	+\$749(/ .25 pc)	42,203	1,835,29	
COLHY SIGHTY TO 75	747,000,000	-2,614,500,000	-163,467,673		0.956	4\$1,868K / .25 pc		7,164,26	
CO (HY 549 UT 1 20.20	255,000,000	-583,000,000	-38,002,575		0.454	+\$063K / .25 pct	215	972.35	27,477.454
CDX HT 535 97Y JU-104	-3,862,000,000	2,317,200,000	10,336,307		+0.045	\$9,257K / 25 pt	350.25	2 176 29	
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A LCDA SEMBLY	-908 148 9 6 5	1.064.851.015	63,000 818		+0.026	+\$1,980K / .25 pc		369,30	
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COLUCDA 518 05Y 17-15	110,000,000	407,000,000	-37,589,254		0.015	+\$275K / 25 pet	5881	-60.66	25 5.801.897
CDX LCDX S18 65Y 15-169	3,965,000,000	-1,586,000,000	30,431,385		-001	+\$7,130K / 25 pc	1994	1,491,09	銀行
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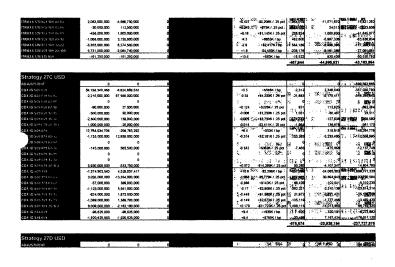
CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

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CORMINATION CO. 10	0	8	a						q	
CDx HY S11 car 19-19	323,800,000	-516,400,000	o		1+0.092	*127 X / 25 pm	95,100		17978,540	47.20
CD4 BY 511 657 15-25	985,000,000	-6,273,500,000	d		£-0.081	192,488# / 25 p		3 83	1,128,684	80.548
CDI HY 511 CSY 75-15	250,000,000	-175,000,000	-5,650,889		-016	•\$625K / .25 pc	9.47		608,621	8,470.0
	-856,000,000	334,600,000	· · · · · · · · · · · · · · · · · · ·		0.182	42,291K / 25 pc		Sec. 2.12	1,712,714	9 9,000
COUNT SELECT	547,903,262	539,003,262	0		0.900 255	+\$5,132K / .25 p	121120	2 4	4,009,363	E 140 63291
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CDs Hr 511534	-9,375,000	-9,375,000	d		0.348	423k / 25 pct	3 4	4 52	12/27,740	4:520
CD/ 917 S11 655	-409,525,000	-409,625,000	d		-1,230	-4943K / 25 per	-12.62	1000	4,681,197	1 17-67,026
CD1 H1 515051	-827,375,000	827,375,000	o o		1.299	42,006X / .25 pa	59		9,978,175	158,957
							1 2035 100	44 6.		認 (第5) 07220 :
COAMY SHIEST	-929,875,000	-926,875,000	d		1,3683	\$2,248X / 25 pa				
	-929,875,000 -1,033,812,500	-1.033,812,500	9			-\$2,249K / 25 pt -\$2,507K / 25 pt				-276,521,
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cor my Strong aalegy 05B USD 3. ABL HE / 1888- USb Strategy 09 USD	-1,033,812,500 AC -1 10,000,000	0 033,812,500	4		-1.604 E	*250K(25p	474,700	1 7/2	15,614,673 15,861,584 2,442 Fg 0	176.521 (
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Strategy 27A USD										
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IDI NY SIDROF 10-15	-220,000,000	1,496,000,000	5	-0.408	-8177K /	25 pc1	6,263	1111	- 272,319	1 1 1 2 27.812.2
DENY Subject to 25	-1,035,000,000	6,003,000,000	o o	-0.187	-\$2,588K	.25 pct	28,480	-	4 300 545	145 449 5
DIHY 504004 75-35	875,000,000	-437,500,000	O C	0.089	\$2,188K	1.25 pci	100.55	4.5	1,098,655	ATT 1986 23 000
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trategy 278 EUR Dustrieur Raak die schoor Raak die Schoor diese Raak die Schoor diese	0 30,447,488,888 -1,940,000,000	5 6,442,538,690 32,010,000,000	0 0 0	48.2 1 +0.747	41,013 \$1,84,850K	K/bp	2,560,084 260,495	5 (5) 5 (5)	5,992 2,902,913 -260,495 -4,653,456	166,206 166,206 166,2076 167,076
trategy 278 EUR Sustrient RARK DIN 55 657 8144 RARK DIN 509 657 8144 RARK DIN 509 657 8146 RARK DIN 509 657 8146	0 30,447,456,656 -1,940,000,000 40,000,000	0 5,442,838,698 32,010,000,000	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	48.2 ± +0.747	#1,013 94,850K	K / bp / 25 pct . 25 pct	2,560,084 250,495 140,385	5 (5) 5 (5)	8,992,913 2,902,913 -260,495 4,633,456 12,880,822	8,091, 186,200 186,200 186,200 186,200 186,200 186,200 186,200
Arrategy 278 EUR DUBSTHEIM RAAK SIN SANNY RAAK SIN SIN SON OF SANN RAAK SIN SIN SON OF SANN RAAK SIN SIN SON OF SANN RAAK SIN SIN SIN SON OF SANN RAAK SIN SIN SIN SON OF SANN	0 30,447,498,698 -1,940,000,000 40,000,000	0 5,442,838,680 32,910,000,000 -280,000,000	0	+8.2 +0.747 + 0.171 4.5	41,013 +94,650K -\$100K/	K/bp / 25 pct 25 pct	2,560,084 260,495 140,365 1809,080	22 - C + S = S = S = S = S = S = S = S = S = S	8,962 2,962,913 280,485 4,653,456 12,860,822 48,763	100,200 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10
Strategy 278 EUR Digistrieut (RAAE DIN SUN GEY (RAAE DIN SUN GEY ON SUN (RAAE DIN SUN GEY ON SUN (RAAE DIN SUN GEY ON SUN GEY (RAAE DIN SUN GEY ON SUN GEY (RAAE DIN SUN GEY ON SUN GEY)	0 30,447,498,698 -1,946,000,000 40,000,000 0	0 5,442,538,690 32,010,000,000 -280,000,000 0 49,000,000	0 0 0 0	48.2 +0.747 : -0.171 ;	41,013 +94,650K -\$100K/	K/bp / 25 pct 25 pct	2560,084 260,485 140,385 1879 280	5 \$1 5 \$1 5 \$1 1 \$1 1 \$450	2,902,913 2,902,913 240,465 6,653,456 12,860,822 48,703 19,552 297,948	9,091 100,200 100,2
Strategy 278 EUR Dyustrient IRAAK DIR NA NAY IRAAK DIR NA NAY IRAAK DIR NA NAY ILAA IRAAK DIR NAY ILAA	0 90,447,498,698 -1,946,000,000 40,000,000 -35,000,000	0 6,442,838,690 32,010,000,000 -280,000,000 6,200,000	d d d d d	48.2 +0.747 : -0.171 ; -4.5 ; -4.0	#1,013 -94,850K -\$100K/	K / bp / 25 pct 25 pct / bp / bp	2,560,084 260,685 140,585 130,780 130,780	5 \$1 5 \$1 5 \$1 1 \$1 1 \$450	8,962 2,962,913 280,485 4,653,456 12,860,822 48,763	9,091 (18,208) (18,209)
itrategy 278 EUR Doubtriget Rask offick flower Rask offick flower	0 10,447,458,658 -1,940,000,000 -0,000,000 0 -25,000,000 -540,000,000 -4,819,000,000	0 6,442,838,688 33,010,000,000 -280,000,000 65,000,000 674,660,000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	48.2 +0.747 - -0.171 - -4.5 +4.0	#1,013 +94,850K / +85,59 +85,59 +\$7838	Kibp / 25 pet / 25 pet //bp //bp	2,560,094 260,495 140,365 1879,000 127,156 140,265	5 \$1 5 \$1 5 \$1 1 \$1 1 \$450	2,902,913 2,902,913 240,465 6,653,456 12,860,822 48,703 19,552 297,948	9,091,1 10,200 11,200 12,200 1
Atrategy 278 EUR DOUSTINGST RANK DUSTINGST RANK DUS	0 30,447,496,898 41,940,000,000 40,000,000 -350,000,000 -480,000,000 4,818,000,000 8,847,551,467	0 6,442,838,698 22,010,000,000 -280,000,000 642,000,000 553,000,000 874,860,000	0 0 0 0 0	48.2 +0.747 -0.171 -4.5 -4.0 -10.1 +0.505	#1,013 #4,850K #100K / #85.59 #2783k #1/880	Kibp / 25 pet / 25 pet //bp //bp	2,560,094 260,495 140,365 1879,000 1937,150 140,400 419,900	200 - 1	280.485 2,802.813 280.485 48.933,435 12.880,822 48.703 19.552 397.848 854.541 221.004,125 8.006.417	9,091,1 1,00,200 1,00,20
Strategy 278 EUR DUISTINENT REAK STILL SENSY REAK STILL S	0 39,447,469,000,000 40,000,000 0 -35,000,000 -46,190,000,000 -4,819,000,000 -1,931,000,000 -1,931,000,000	0 6,442,838,630 22,910,000,000 -260,000,000 44,000,000 551,000,000 874,660,000 3,879,601,407 5,360,250,000	0 0 0 0 0 0	48.2 +0.747 -0.171 -4.5 -4.0 +10	#1,013 #4,850K #100K / #85.59 #2783k #1/880	Kibp / 25 pet / 25 pet //bp //bp	2,560,094 260,495 140,365 1879,000 127,156 140,265	5 \$1 5 \$1 5 \$1 1 \$1 1 \$450	280.485 2,802.813 280.485 48.933,435 12.880,822 48.703 19.552 397.848 854.541 221.004,125 8.006.417	9,091,1 10,200 11,200 12,200 1
Strategy 278 EUR DUSTRIBLE TRANS CHILL ACCOMMENT TRANS CHILL ACCOM	0 39,447,469,000,000 40,000,000 0 -35,000,000 -46,190,000,000 -4,819,000,000 -1,931,000,000 -1,931,000,000	0 8,442,838,688 32,010,000,000 -280,000,000 6,42,000,000 872,990,000 872,990,000 0 0 0	0 0 0 0 0 0	48.2 +0.747 -0.171 -4.5 -4.0 -10.1 +0.505	#1,013 #100K / #100K / #15 59 #2753 #1000 #2,553K	Kibp / 25 pet / 25 pet //bp //bp	2,560,094 260,495 140,365 1879,000 1937,150 140,400 419,900	5 50 5 50 6 50 6 50 7 50 7 50 7 50 7 50	280.485 2,802.813 280.485 48.933,435 12.880,822 48.703 19.552 397.848 854.541 221.004,125 8.006.417	9,091,1 100,204 11 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 1
Strategy 278 EUR DOUSTING THE STATE OF THE S	0 19,447,426,508 -1,940,000,000 0 -35,000,000 -4,619,000,000 -4,619,000,000 0 0,000,000 0 0 0 0 0 0 0 0 0	0 6,442,858,688 22,090,000,000 280,000,000 49,000,000 674,660,000 674,660,000 0 0 0 0 0 0	0 0 0 0 0 0 0 0	48.2 -0,747 -0,171 -4.5 -4.0 -15.1 -0,586	#1,013 *94,650K #1,00K / #1,550 *1,550 *1,	K/bp / 25 pet / 25 pet //bp //bp K/bp / 26 pet	2,560,084 260,495 140,985 1939,080 1207,120 140,960 419,960	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	280.485 2,902.913 280.485 48,703.485 12,860,823 48,703 297,886 207,886 207,886 207,886 207,886 207,886	9,091,1 109,201, 109,201,019,1 109,401,019,1 109,401,1 1
Strategy 278 EUR DUISTINENT REAK STILL SENSY REAK STILL S	0 39,447,469,000,000 40,000,000 0 -35,000,000 -46,190,000,000 -4,819,000,000 -1,931,000,000 -1,931,000,000	0 8,442,838,688 32,010,000,000 -280,000,000 6,42,000,000 872,990,000 872,990,000 0 0 0	0 0 0 0 0 0	48.2 +0.747 4.5 -4.5 -4.0 -15.1 +0.565	#1,013 #100K / #100K / #15 59 #2753 #1000 #2,553K	K/bp / 25 pet 25 pet //bp //bp K/bp / 26 pet	2560,084 260,485 140,985 1319,080 144 455 140,880	5 \$7 5 \$7 5 \$7 6 \$8\$ 7 \$25 2 \$2 2 \$2 2 \$2 2 \$2 2 \$2 2 \$2 2 \$2	280,495 280,495 48,953,455 12,860,822 48,703 19,552 297,948 854,541 221,004,125 8,004,125 1,004,125	9,091,1 100,204, 110,204,0074, 120,204,0074, 121,204,0074, 12

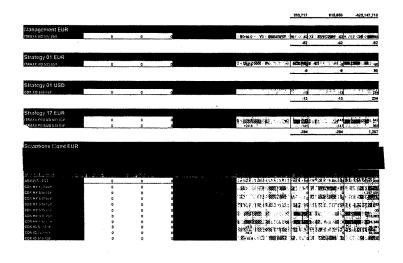
CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.



CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

10x HY 502 25Y	1,397,061,963	-71,936,017	o	0.002	\$151K / .25 pct	6002 S M	22	242 STATE (SEE S)	120
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	-80,000,000	1,464,000,000	o	0.217	-\$104K / .25 pct .	71 9	108	381 47-1711	852
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D1 8Y 590 85Y 17 169	۰	0	a			- 0	0.000, 2.00		, 40
DX HY 510 N/Y	-227,318,711	72,661.288	C	-0.490	+\$153K / 25 pes		-281	943 7,1	734
		٥	o	100	1.152 1.44	14.5	1184 15	ાના કહ્યા	1
	100,000,000	-300,000,000	d	4131.05	+\$130K / 25 pts	H-728		975 MG 2000 F	9,44
DR H # 500 H / Y 15-25	0		o c					rie :	
DERET SHRRIVE 25 25	0	0	o d	1. 824.455	: 164	285.20	4 F :	Case (1985) L	RE
		0	0	9.75		111 10	127.03	07/12/12	:3
	77,227,681	-38,777,319	o a	, A.167	440K / 74 pet	. 5	্ৰ ব্যৱসায় <mark>ক</mark>	570	950
	c	9	O		1 March 24				
25 HY 559 COY 10-15	. 0	0	o de la companya de l	₹.	156.502	S 0	: 305,855	3d "3	ě,
	-20,000,000	116,000,000	0	. +0.167	460K / 25 pct	÷, 6-494	- 25	123 1 1 1	084
DE SEA 247-024-52-12	0	0	0					g ·	
		0	9	Sec. 35 15.5	11	The Land	4.6	ole (国际)	
	-381,884,209	16,135,791	a	0.542	+658K / 25 pct ;	DETM	. 46	44 Sec. 1965 W	99:
KHY STREET OF BE	e	0	o contract of					dance and	
PHT STREET TU IS	125,000,000	400,000,000	o	0.79	+\$105K / .25 pet	387	127	920 7/	85
CH1 PW 621 19 21	0	0	0	\$7.	1.08.180	12 0	3 280 560	व अ	28
	0	٥	o de la companya de l			()		d ·	
		0	9			ε	11 520 889	뭐 .뭐.	2
	-2,758,643,713	830,556,267	o d	1 1.23	+\$1,74K / 25 pci	- 93,144	4,345	263 7 () 140	030
DE HY 5 II+ C/Y 513.10	0	0	o d				8	darrama a	
	2,970,500,000	4,782,500,000	o c	2693	152,499K / .25 pct	製湯	-6.537	234 1721	iδι
	-337,000,000	1,179,500,000	a	S Course	4843K / 25 pct	diam'r.	F E. 3,532	553 357 (360) 345	301
DE HY 5.16 674 25-25	0	0	a de la companya de	16 14			414.7	914 18573	d.
	5,027,000,000	3,016,200,000	. 0	+0.049	+\$12,049K / .25 pcl	400,737	2,822	8671 143.7	771
	-1,623,367,369	282,932,631	0	· 9 -0.477	-956 Rt / .25 pct	1,174	1 300 (100)	191 30,	A
	a	0	0	ž	1.777.7392	. 0	1 395 3562	A 1	. 22
	627,000,000	-1,315,200,000	o c	+0.082	- 5092K / 25 pct	12,105	274	034 -44,5	533
	20,000,000	-106,000,000	a	0.081	+\$50K / 25 pm	2,770	21	758 3 B 198	867
		0	9	2 (20 h 22)	10. 10.3	EST M	2 12 m	PERSONS E	3
	1,386,000,000	-485,100,000	d	0.182	+\$3.522K / 25 pct	15,470	-2,694	131 133	971
	+1,027.250,000	-1.027,250,000	6	1.230 ***	42,491K / 25 pct	3467	11,763	647 Sed 1 Sed 287	Ÿ.
	-173,250,000	-173,250,000	o a	1.729	-\$420K / .25 pcf	125	2,088	983 27 77 56,5	es,
DX HY 516 05Y	62 500 000	62,500,000		-1,483	+\$152K / .25 pct	-606			

Reducted by the Permanent Subcommittee on Investigations



CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

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(TRAXE WHINDOWS)	0	0	o		+8.2					10.1	10 tar	CE 2 4 237
HEARA MILESTS ON	0	0	0		+10.6		1		1	- 11.19	44 42.	497,290
								0		(0

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

JPM-CiO-PSi 0023079

From: Lewis, Phil cyhil.lewis@jpmorgan.com>
Sent: Mon, 14 May 2012 17:32:44 GMT
Dimon, Jamle cjamle dimon@jpmchase.com>; Braunstein, Douglas < Douglas Braunstein@jpmorgan.com>; Hogan, John J. < dohn.J. Hogan@jpmorgan.com>; Drew, Ina < ina.Drew@jpmorgan.com>; Zames, Matthew E comborgan.com; Cames, Matthew E comborgan.com; Perw, Ina < ina.Drew@jpmorgan.com>; Watthew E comborgan.com; Venkatakrishnan, CS <a wenkatakrishnan@jpmorgan.com>; Watthew E comborgan.com; Venkatakrishnan, CS <a wenkatakrishnan@jpmorgan.com>; Wilmot, John < JOHN.WILMOT@jpmorgan.com>; Martin-Artajo, Javier X javier X <a

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

From: Grout, Julien G-yvien g grout@gemchese.com>
Sent: Twe, 10 Apr 2012 19 02 23 GMT
TO: CHO CREDIT POSITIONS E-GLOC CREDIT_POSITIONS-@gemchese.com>
DC: CHO PAL Team 4(CH) PAL [Team@gemchese.com>
Subject: CHO CRED Fosition 10 Apr-12

Product	Notesul	Hedge (P.u)	Hodge (Annuity)	Price Orital Re	Change	Process	Other	P&L (T)	YTD (5)
		mmm	************			-	***************************************	***************************************	************
UUST#1897		0				*******	214 974	214,974	137, 164
MARKED SENSATION	48 125 000	48 125 000	G		+21.5	427K / bo	10.880	686,170	4.386
AYX 611.505 507 00Y	-81,375,000	-81,375,000	o		-25.0	-\$2.1K/bo	5.52	13,827	10000000
ANY PRINCIPLE SECURE	-462,000,000	462,000,000	ò			+\$41K/bo	18.098	790 683	1211.3410
CONTRACTOR SAVOR	1,480,500,000	1,480,500,000	a		-24.8	+\$227% / bo	13 286	4,751 604	4 4 4 4 4 4 2 863
ATS FOLSUB STRONG	-968 875 DDD	466 575 000	a		-24 8	-1205K / bu	41.715	4,089,568	28.004
ARN FOLSUS SIZ DEF	-679 000 000	-079 000 000	G		+24.7	+\$2159 / bo	112.564	5,074,177	61 554
AKE FUNDE STERNY	1,141,875,000	1,141,875,000	a		+24.5	-8475K / bo	309 195	11/363 419	143.74
AKK FINSUB SID VO	398 125 000	398 125 000	a		- +24.6	+\$182K / bo	139.696	4,372,082	60.21
AXX FILLSUB 516 09Y	915.250.000	915,250,000	o o		+24.7	\$511K / bp	153,583	11,661,151	46,30
AXX FRISUB S17 DEX	621,250,000	621,250,000	9		-247	-\$361K / bo	133.143	8 860 534	38.901
							77,143	-13,386,800	-24,101
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USTMENT	0	0	9				210,857	219,847	*****
ARK FINEUD SITTLEY			j		+29.0	Martin 1	367		
AVX FINSUB 507 004	11,625,000	-11,625,000	9			12 15 1		3,240	
AKE FILSUB S/V FOF	D	0	9		+34.2		1 534	1,534	
ava kinsua stonia	-85,000,000	-86,000,000	9		+24.0	-95 PK / bp	14,143	98,500	
ACX FILSUS 5 AT NO	0	0	9		+24.3		8.450	-6,450	
REAL FIFTE BUS SURFOLT	-211,500,000	-211,500,000	9		~~24.8	- 532K / 6p	10.530	- 000.367	44.60
					+34.6		10 630	10 836	**************************************
RAKK FILISUG SULTUY RAKK FILISUB STERSY	-136 125 000	-138 125 000	4		+24.8	-679K (bo	130 887	614 521	29.73

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

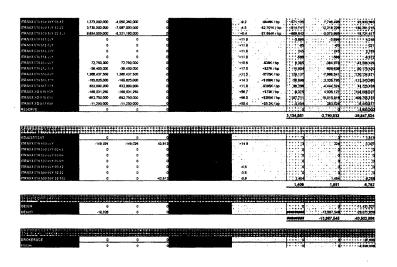
RAXI FIVOUS \$13 164		٥		-24.3	183	1630 1630
RAXX FIGSUS 51101Y			,	+24.8	1,721	4.72
RATE FOLSUS 5 12 03Y	-97.000,000	-97.000.000		+26 7 +E31K / bp	78.516	630,229
RACK FINSUB 512 05Y		0	d	+24.6	89.674	89,674
RAXX FINAUS STICEY	163,125,000	183,125,000	o c	+24.5 4684 / bp	183,219	1,510,958 1214,958,57
RAXX FINSUS \$ 10 00Y	-56,875,000	-56,675,000	o	-24.4 - 439K / hp	30,073	574,551 83,067,69
RAXX FINSUS \$13,004	130,750,000	130,750,000	o	+24.7 473K/bp	143,871	1,000,050 74,801,84
PRAYER/SUBSITION	90,625,000	80,625,000	o de la companya de l	124.7 -456K/bp	1-170,757	1,437,026 111178,209,77
RAXX 5'N 505 101		0	0	*11.7	7.0	480 17 17 17 17
RAXXIII NIS 198	۰	0	0	+11.7		*11111111111111111111111111111111111111
FRANK JUN SOUGLY	0	0	0	+14 9	1,280	1,200 11 11 11 11 10 10
TRAXX 5/8 549 95Y	0	0	0	411.0	111111111111111111111111111111111111111	(83)
RAXXX19 516 05Y	18,750,000	18,750,000		4115 \$11K/bp	1.876	748.94
					-72,282	-2,080,618 -48,007,81
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Daustment	9	۰		the second of the second of the second	216,041	215.0411 1 - 187.207.01
	735,753,836	735,753,836		+11.7 \$400K / bp	1216,041	
RAXX 2 to 500 10Y			0		1129.827	4.844.207 60.441.34
RAXX 2/10 505 10 Y RAXX 2/10 507 10 Y	735,753,836	735,753,836	0 0		129 027	4,844,207 50,441,54 63,491 772,41
RAX 2/0 505 16Y RAX 2/0 507 10Y RAX 3/0 5/3/50Y	735,753,836 9,237,152	735,753,836 9,237,152	0 0	-117 45 4K/bp	129.027	4,844,207 50,441,8 43,491 772,41
RAXX 010 505 107 RAXX 010 507 107 RAXX 010 503 007 RAXX 010 503 107	735,753,836 9,237,152 -291,851	735,753,836 9,237,152 -281,851	0 0 0	-91.7 45.4K/tap -92.0	129.627	4,944,207 50,441,94 63,491 772,41 269 1,04 547,720 4,945,2
RAXX 24 509 104 RAXX 24 507 104 RAXX 314 503 504 RAXX 515 503 504 RAXX 515 503 504	735,753,836 9,237,152 -291,851 72,263,247	735,753,836 9,237,152 -781,851 72,263,247	0 0 0	-912 45 66/bp -920 -917 44/76/bo	129.027	49.49 772.4 49.49 772.4 209 7.0 547.720 4.452 50.931.475 373.181.5
Doubtinent (Rank die 565 167 (Rank die 565 67) (Rank die 565 67) (Rank die 565 67)	735,753,836 9,237,153 -291,851 72,263,247 -42,553,601,554	735,753,836 9,237,152 -781,851 72,263,247 -42,553,601,554	0 0 0	-912 45 64 ftp -920 -917 4474 ftp -918 +88 6784 ftp	129.627 1,666 13311 750.662	4344.207 50,441.30 63,494 772,41 269 7,0 547.720 4,945.21 50,033,435 373,105,10 208,204 490,51
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Trans I'm Sofoly 604/3 Trans I'm Sofoly 604/3 Trans I'm Sofoly 65/69 Trans I'm Sofoly 64/12 Trans I'm Sofoly 64/12 Trans I'm Sofoly 64/12 Trans I'm Sofoly 72/50 Trans I'm Sofoly 72/50 Trans I'm Sofoly 72/50 Trans I'm Sofoly 74/60/12	-850,000,000 -400,000,000 345,000,000 475,000,000 12,284,000,000 -3,738,941,723 406,000,000	14,025,000,000 2,800,000,000 -784,000,000 -441,000,000 -451,250,000 -1,721,180,000 265,056,277 -2,131,500,000	0 47,551,285 -70,647,440 -5,980,891 7,297,484	1418 4.0000(1/10) 1749,378 -0.04 423,2623 3 ppt 1,364,378 -0.01 413,00001 2 ppt 1,364,000 -0.020 4800001 2 ppt 1,364,000 -0.020 480001 2 ppt 1,364,000 -0.020 4.00001 2 ppt 1,364,00000000000000000000000000000000000	7,992,47) 199,473,321 7,005,000 32,005,373 25,433 4,000,256 530 (es 20,61)3-16 131,120 4,003,351 1,005,474 11,003,401 1,446,430 123,400,367 3,777,412 34,003,457
TRAKE I'M SCHOUT 0043 TRAKE I'M SCHOUT 0046 TRAKE I'M SCHOUT 0046 TRAKE I'M SCHOUT 0442 TRAKE I'M SCHOUT 0442 TRAKE I'M SCHOUT 0442 TRAKE I'M SCHOUT 0444	-850,000,000 -400,000,000 346,000,000 315,000,000 475,000,000 12,284,000,000 -3,739,941,723 406,000,000	14,025,000,000 2,600,000,000 -762,000,000 -441,000,000 -451,250,000 -1,721,180,000 265,056,277 -2,131,500,000 980,000,000	0 47,551,285 -70,647,440 -5,980,891 7,297,484	1418 48000 (100 149,57% 149,57	7.002.47) 109.43.37 7.000.800 32.000.977 274,833 4,000.507 274,835 4,000.507 274,836 4,000.507 274,836 1,000.507 1,000.607 1,0
TRAXI I'M SSEULT 0043 TRAXI IIM SSEULT 0045	-850,000,000 -400,000,000 345,000,000 315,000,000 475,000,000 -2,736,941,723 406,000,000 -180,000,000	14,025,000,000 2,600,000,000 -780,000,000 -441,000,000 -451,250,000 -1,721,160,000 285,056,277 -2,131,500,000 980,000,000 125,000,000	0 47,551,285 -70,647,440 -5,980,891 7,297,484	145 4.0000(100 100) 1415(0001.25 pt 0) 1405(0001.25	7.002.07 (99.03.27) 7.003.000 (92.00.97) 7.003.000
TRACE IN SCIENT	-850,000,000 -400,000,000 -340,000,000 -315,000,000 -475,000,000 -12,738,941,723 -408,000,000 -25,000,000 -25,000,000 -25,000,000 -800,000,000	14,025,000,000 2,400,000,000 -784,000,000 -441,000,000 -451,250,000 -1,721,180,000 -265,056,277 -2,131,300,000 -125,000,000 -594,000,000	0 47,551,285 -70,647,440 -5,980,891 7,297,484	148 4800 (100 1 44,57% 1 44,57	7,992,47 (99,40) 277,708,889 (20,40) 277,708,889 (20,40) 277,708,889 (20,40) 277,840 (20,40) 2
TRACE IN SOLUTION SOLUTION STREET IN SOLUTION SO	-850,000,000 -440,000,000 340,000,000 315,000,000 475,000,000 -2,738,941,722 400,000,000 -25,000,000 180,000,000	14,009,000,000 2,600,000,000 -760,000,000 -441,000,000 -451,250,000 -1,721,160,000 -1,721,160,000 960,000,000 175,000,000 787,500,000	0 47,551,285 -70,647,440 -5,980,891 7,297,484	1418 4.0000(1) 10 149,578 -0.04 423,5862.3 pp of 1,9864 -0.01 413,0000.1 25 pp of 1,9864 -0.01 413,0000.1 25 pp of 1,9862 -0.05 4000.0 12 12 12 12 12 12 12 12 12 12 12 12 12	790, 47 19, 40 227 79, 40 227 79, 40 227 79, 40 227 70, 40 32 40, 40 227 20, 40 32 40,
TRACE ON SOLUTION IN THE STATE OF SOLUTION IN	-850,000,000 -440,000,000 345,000,000 475,000,000 -2,736,941,723 406,000,000 -180,000,000 -180,000,000 -850,000,000	14,009,000,000 2,400,000,000 -762,000,000 -441,000,000 -451,250,000 -1,721,190,000 265,069,277 -2,131,300,000 960,000,000 125,000,000 -390,000,000 -31500,000 -3150,000	0 47,551,285 -70,647,440 -5,980,891 7,297,484	1418 - 8.0000(1/10) 1/94/378 - 1044 - 142/5001 3 per 1/94/378 - 1044 - 142/5001 3 per 1/94/378 - 1045 - 142/5001 3 per 1/95/38 - 1045 - 142/5001 3 per 1/95	7.995.207 (99.12) 7.995.308 (9.20) 7.995.308 (9.20) 7.905.308 (9.20) 7.905.308 (9.20) 7.905.309 (9.20) 7.905
TRANS DIVISOR UP 400-41 TRANS DIVISOR DIVISOR DIVISOR TRANS DIVISOR DIVISOR DIVISOR TRANS DIVISOR DIVISOR DIVISOR TRANS DIVISOR DIVISOR TRANS DIVISOR DIVISOR TRANS DIVISO	-850,000,000 -400,000,000 -400,000,000 -315,000,000 -315,000,000 -12,244,000,000 -2,738,941,723 -600,000 -600,000,000 -400,000,000 -850,000,000 -13,812,418,851	14,005,000,000 2,800,000,000 -762,000,000 441,000,000 -451,250,000 -1721,160,000 -1721,500,000 -960,000,000 -175,000,000 -594,000,000 -787,500,000 -3,510,000,000 -3,510,000,000 -3,510,000,000 -3,510,000,000 -3,510,000,000	0 47,551,285 -70,647,440 -5,980,891 7,297,484	1418 4.0000(1) 0. 149,578 -0.04 42,526.27 3 per 1,598.48 -0.01 41,5000.12 3 per 1,598.48 -0.01 41,5000.12 3 per 1,598.48 -0.05 4800.07 3 per 1,598.48 -0.05 40,000.07 3 per 1,598.48 -0.05 40,000.07 3 per 1,598.48 -0.05 41,5500.07 1	399.47 999.18 199.12 199.12 199.13 199
TRANS CONTROL OF THE ACT OF THE A	-850,000,000 -400,000,000 315,000,000 475,000,000 475,000,000 475,000,000 -12,748,941,722 400,000,000 -150,000,000 -25,000,000 -400,000,000 -400,000,000 -400,000,000 -10,872,418,871	14,009,000,000 2,800,000,000 -760,000,000,000 -441,000,000 -451,250,000 -1271,160,000 960,000,000 127,000,000 767,000,000 3,61,000,000 3,61,000,000 3,61,000,000	0 47,551,285 -70,647,440 -5,980,891 7,297,484	1418 4.0000(1/10) 1949,719 -0.04 142,726,73 3pt 1949,719 -0.04 141,00001 25 pt 1949,726 -0.05 141,00001 25 pt 1949,726 -0.05 140,0001 25 pt 1949,726 -0.05 140,0001 25 pt 1949,726 -0.05 141,0001 25 pt 1949,726 -0.05 1	1994.07 1994
HARAC MISSON OF MEAN THAT I MEAN TO MEAN THAT I MEAN TO MEAN THAT I MEAN THAT	-850,000,000 -400,000,000 -400,000,000 -315,000,000 -315,000,000 -12,244,000,000 -2,738,941,723 -600,000 -600,000,000 -400,000,000 -850,000,000 -13,812,418,851	14,005,000,000 2,800,000,000 -762,000,000 441,000,000 -451,250,000 -1721,160,000 -1721,500,000 -960,000,000 -175,000,000 -594,000,000 -787,500,000 -3,510,000,000 -3,510,000,000 -3,510,000,000 -3,510,000,000 -3,510,000,000	0 47,551,285 -70,647,440 -5,980,891 7,297,484	1418 4.0000(1) 0. 149,578 -0.04 42,526.27 3 per 1,598.48 -0.01 41,5000.12 3 per 1,598.48 -0.01 41,5000.12 3 per 1,598.48 -0.05 4800.07 3 per 1,598.48 -0.05 40,000.07 3 per 1,598.48 -0.05 40,000.07 3 per 1,598.48 -0.05 41,5500.07 1	7.995.47 (99.10) 2.995.17 (99.10) 2.995.



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DX IG USD::::::::				*******************	******	*******	********	
OJUSTIYENT	0		0			d	d	1,301,700,07
DX 1G 507 61Y	-343,878,787	-343,876,787	o o	*89	- +\$56K / bp	500	452,320	3,217,45
DX 10 S03 (-7Y	207,968,616	207,608,816	o	+8.9	-543K / bp	1,420	345 229	1000
DX 10 583 05Y	-132,336,346,351	132,338,349,351	ō	+7.0	+\$8,977K / bp	2017	49,459,590	145 756 82
DX 16 S23 97Y	16,707,493,894	16,207,493,894	o	+6.0	4,155K/tp	53,000	22,847,987	107,440,05
DX 1G 593 1f Y	78,718,624,801	78,718,824,801	o o	-64	-\$40,023K / bp	4 584 631	329,571,892	1,728,028,20
0.8 IG 540 65Y	-2,582,277	-2,582,277	o d	+9.0			2,445	28,94
DX (G 5.14 05Y	-8,699,875,000	4,699,875,000	o	-89	-12,125K/bp	64,681	18,301,233	45,005,01
DX 1G 5.11 10Y	224,875,000	224,875,000	o de	-0.0	- \$165K / Dp	7.457	1,439,100	2 502 70
DX 10 5 15 05 r	-16,912,324,274	-18,912,324,274	d	+9.4	-96,147K / Dp	100,001	55 043 288	77 198 30
DESC 515 NOT	-47,250,000	47,250,000	o	*4.0	-536K / bp	. 2844	318.706	7226
DX IC 516 051	-16,189,906,250	-16.168,906,250	o d	*94	+56,612K / bp	183.754	60,348,227	42,507.12
DX (G 516 20 Y	204,250,000	264,250,000	d	48.8	-\$210K / bp	24,280	1,848,184	
02 1G S 17 USY	10,085,937,500	10,085,837,500	o d	+6.7	\$4.568X / bo	117,232	38,348,555	18 715 22
720 S12 D3 KD	13,854,625,000	13,654,625,000	o de	+6.9	96 860K / bo	127.083	59 527 518	
DX 8S S12 85Y	13,854,625,000	13,854,625,000		.69		127,083	59,527,518 -268,992,756	**** 73 238,93
DX IS \$12 85Y	13,854,625,000	13,854,625,000	, d	+89			59,527,518 -268,992,756	· · · · · · · · · · · · · · · · · · ·
~~~	13,854,625,000	13,854,625,000				127,083		· · · · · · · · · · · · · · · · · · ·
Strategy DEUSD :::::	13,854,625,000	13,854,625,000	0	469		127,083		**** 73 238,93
trategy DEUSD:::::	13,854,625,000		9	.009		127,080		***** #3,238,42
trategy DE:USD :::::	13,854,625,000 0 -366,123,233	************	0 0 0 5,884,412	69		127.083		
trategy DE:USD:::::: DUSTUSENT DE:SG 507 637	0		0 	***************************************	-50,880X / bp	127,080	-268,992,766	464,346,44 -1705,21
trategy DEUSD:::::	0 -300,129,230	0 -(00,123,235	0 -0 -5,864,412 0	***************************************	-50,880X / bp	127,080	-268,992,766	464,346,44 -1705,21
trategy DB:USD ::::: DUSTINENT DE 10 SOT PET DE 10 SOT PET 0 2-07 DE 10 SOT PET 0 2-07	0 -300,129,293 0	0 -(00,123,235 0	5,884,412 0 6,487,800	***************************************	-50,880X / bp	127,080	-268,992,766	454,345,64 454,345,64 1,765,33
Tratedy DRUST	-300,129,293 0 0 0	0 -100,123,225 0 0	9	-489	-\$6,860K / bp	- 127 083 - 20 0	263,992,758	454,345,44 464,345,44 1,765,3
Trategy DB/USD :::::  DUSTYINGST DUSTYING DX 10 S07 07 42 5 5 DX 10 S07 07 4 5 5 5 DX 10 S07 07 4 5 5 5 DX 10 S07 07 4 5 5 DX 10 S07 07 4 5 5	-366,129,250 0 0 110,000,000	-(00,529,235 0 0 -296,000,000	9	-489	-\$6,860K / bp	- 127 083 - 20 0	-263,992,766	454,345,44 464,345,44 1,765,3
Grategy DECUSIO : : : : : : : : : : : : : : : : : : :	-366,129,250 0 0 110,000,000	-(00,529,235 0 0 -296,000,000	0 0 0,487,880	-489	-\$6,860K / bp		263,992,758	- 75 228 42 - 464 346 44 - 1 765 23 - 1 41 277 43 - 7 203 47
itrategy DRUSD	-366,129,250 0 0 110,000,000	-(00,529,235 0 0 -296,000,000	0 0 6,497,880 0 723,133	-489	-96.980K / bp -917K / bp -917K / 25 pg	127 050 0000000000000000000000000000000000	-269,992,766 0 134,264 0 0 171,086 0 171,086 15,091	454 346 44 464 346 44 1785 21 145 277 43
intrategy DBUSD III Double to a construction of	0 -366,123,233 0 110,000,000	-100,123,235 0 0 -266,000,000 0 0 0	0 0 6,487,880 0 723,133 -1,356,381	-69 -6176	-\$6,860K / bp	127 050 0000000000 4 990 19 900	269,992,766	454,246,44 464,246,44 1,765,27 41,277,4 7,203,6
Strategy DEUSO :	0 -366,123,233 0 110,000,000 0 0 0 240,333,364	-100,123,235 0 0 -266,000,000 0 0 0 80,963,384	0 6,487,880 G 723,133 -1,356,381 -0,868,511	-69 -6176	-96.980K / bp -917K / bp -917K / 25 pg	127 000 	-269,992,766 0 134,264 0 0 171,086 0 171,086 15,091	15,226,41 464,246,44 1,765,21 11,277,11 7,200,61 11,50 1,160,51
Intradegy DRIUSDI  DUSSINGO DU	0 -366,123,233 0 110,000,000 0 0 0 240,333,364	-100,123,235 0 0 -266,000,000 0 0 0 80,963,384	0 0,487,880 G 723,133 -1,356,381 0,860,511 0	-69 -6176	-96.980K / bp -917K / bp -917K / 25 pg	127 OES	258,992,756 1194,756 1194,756 171,000 15,000 15,000	-75,225,51 -464,346,64 -1,765,21 -1,277,41 -1,277,41 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,166,25 -1,
Strategy DRUSD	0 -366,123,233 0 110,000,000 0 0 0 240,333,364	-100,123,235 0 0 -266,000,000 0 0 0 80,963,384	0 6,427,880 723,133 -1,356,381 4,866,511 0 2,431,466 11,863,263	-69 -6176	-96.980K / bp -917K / bp -917K / 25 pg	177.083	258,992,756	7.52.5% 464.346.44 1.765.31 1.77.55 7.205.61 1.165.61 1.165.61 1.165.61 1.165.61 1.165.61 1.165.61 1.165.61 1.165.61 1.165.61
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DR 40 540-924-02-10	125,000,000	526,500,000	-21,711,810	4.223 +#338K / 25 per	5.418	281 074	10546
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COX IS SQUARY DUCK	785,000,000	6,949,000,000		 0.367	\$1,495K / 25 pct	156.756	2 185 506	61,804,298
CDA IG 549 9/7 0 x 1/	-215,000,000	1,978,000,000		+0.363	+\$538K/ 25 pet	48 193	803,174	6.426.687
COX 16 519 6/Y 97 10	46,000,000	331,500,000	-255,993,856	0.053	+\$213K / 25 per	100,115	80,868	-363.343
CDX IG SEVERY 14-15	-1 979 000 000	3 349 000 000	410,470,000	0.005	+\$4,925K / 25 pct	68 117	43.549	90,230,850
CDA 15 555 977 1: 10	4,965,000,000	4,179,000,000	2,786,156		+\$17,413K / .25 pc		2,258,250	-51,998,904
COX IC 559 07Y 19-189	5,500,000,000	495,000,000	-610,016	+0.022	\$13,262K7 25 pc	ann	1,157,139	15,619,610
CDX IG 510 feV	3,413,024,577	8,895,984,577	0	-8.4	43.508K / 00	224,708	20,093,521	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
GDX 1G Sec 107 004.3	-560,000,000	2.454.000.000	ò	1 224	+\$1,066K / 25 pct	\$78,172	4,535,618	11,000,017
COXIG SECTION JET?	137,000,000	459,000,000	e	0.344	4343K / 25 pct	104,020	391,656	5,900,300
COX IC 509 N/Y 97-10	2 000 000 000	10.542.400.000	o di	0.011	\$5.020K / 25 pcl	9 9 163	1,886,641	133,601,553
COX 10 SV4 16.Y 10-15	-1,301,000,000	3,903,000,000	0	0.079	183,253K / 25 pcf	415,410	13485,073	3.00300
COX 1G 559 497 15-10	-2,661,000,000	5,456,300,000	d	0.051	+\$8,653K) 25 pc	537.762	1365,040	7.010.362
CDX IG 849 107 27-10 +	7,116,000,000	1,707,840,000		+0.079	\$17,156K / 25 pc	1,120,320	4,288,710	61,622,969
COXIG STHELY	0	٥	ď	+0.0		201116		
COX IG 512 65Y	۰	9	o	-40		11.30	4,591	h.bto
CDX IG 513 85Y	۰	0	o	+0,0		11.2362	,2,890	0.00
COX IC S11 057	-957,125,000	467,125,000	o	6.0	. +\$304K/hp	: 39.244	2,563,403	111111111111111111111111111111111111111
CDX (G.5-12-10)	32,125,000	32,125,000	a	+8.8	424K7 bp '	30,871	170,863	1,200,380
CD# 1G 5:15 65Y	-2.261,562,500	2,769,562,500	a	49.4	4525K / bp	2) 593	7,517,456	111111111111111111111111111111111111111
CDX IC S15 YEY	6,750,000	-6,750,000	o o	-44	. 455.2K/bp	406	45,244	ciadaci-
CDX IC \$16.05Y	-273, 187,500	-279,187,500	o o		+8112K / tip	33.500	1,064,000	107.610.182
CDX IC 516 50Y	37,750,000	37,750,000	0	+6.6	-430K/bp	30.151	221,402	\$ 616 bay
COX IG 5 17 05 Y	1,127,812,500	1,127,812,500	o	+8.7	4512K / bp	72,334	4,386,198	104 648,324
COX IG S 18 PSY	1,667,625,000	1,887,625,000		 -69	- \$927K / bp	28,307	8,013,227	49 317 401
						1,458,823	41,645,707	284,261,154
ADJUSTMENT							Apr. 1	205,603,05
CDX HY 507 97 Y	53 200 249	53,284,249		-0.982	+81126/,25 pct.	317	427 302	3/2,856
COX HY Ses ony	-11.175.078.791	-11.175.076.791	3	-0.002	423.468K) 25 pc		3/455 (0)	37.500.260
CDX NY N/ S G/Y	1,310,261,930	1,310,261,933	3	4.490	*\$2,752K / .25 pc	1::::1	5.0k2.724	160315
COX HY SCHOOL	-743 844 158	-743,644,156	2	-0.167	41.543K / 25 pot	100	835,634	6.413.017
CDX HY 510 01 Y	2714.500.573	2.714.500.673	3	0.00	\$5,700K / 25 pc	270	6.391.461	62.544.254
COX HY 510 07Y	2812.540.228	2.612.540.228	3	1,107	+85,485K / 25 pc	31334	23,166,955	45 122 865
COX HY 511 017	7,785,221,173	7,795,221,173	ĭ	0.001	-\$16,370K/ 25 cc		36,375,436	413436
CDX NY 511 07Y	3,860,998,738	3.880.088.738	ä	0.742	+\$6.106K/ 25 oc	79.284	22.064.563	20 405 207
CDENY SILVE	-65,625,000	-65,625,000	2	0.044	415867 25 pct		194,480	
COX MY 514-01Y	-10,691,125,000	-10,891,125,000	ä	-1.300	-\$28.411K/ 26 oo		137,928,216	
COX NY 515 OFF	4,586,125,000	-6,588,125,000	2	1,000	\$20,829K / 25 po			
	-0,20,000	-,,120,000	4	 	Annual Annual Annual Page No.	5 0'81-d	134,781,004	

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

CDX HY 517 05Y CDX HY 517 05Y CDX ECDX 510 05Y	-4,050,625,000 -7,036,687,500 -760,251,015	-8,090,525,000 -7,036,667,500 -780,251,015	0		1.361 1.725 +0.028	414,6734 ( 25 p 817,0844 ( 25 p 91,3464 ( 25 pc	430,670	76:523:331 114,746,976 -243,185	121,477.21 298.888.7
							618,170	372,820,754	567,866,88
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Miller alamana							£27.1.1		
DX HY SCIOLY	۰	0	37,822		11117		. :::::::9		-4,698,4
CDX HY 503 00Y 61-10		٥	9		1 1		1:::::9		1:::::::::
CDX HY 523 95Y 19-16			9		1111	1000	739	738	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
COX HY S/3 05Y 15-25							12::::	45	7111111111
CDX HY S13 61Y 23-39		ō.	-37,622				269	-2/1	
CDX HY 563 05Y 35-104		<u> </u>			·		1.000	9.	*****
CDX MY 503 07Y CDX MY 503 07Y 25-25	٥	0	9		Section .	110	1.1305	1,395	
DDX RY 503 07 Y 25-25			9	 			-250	236	364.9
COX HY 593 07Y	. 0						12 400	13,400	
COX #Y 518-07Y			9	 			13,409	13,409	
COX WY 563.07Y		•		 					
	•	•		 					
FA TANZA I I SIN HI BA							13,409		482,3
fa (a) [] f.c. Adjusticent								13,449	482,3
in id. Coustore Cox et selvey			0 0 0,996,860			*\$77K/ 25 pc	13,409		482,3
ACQUISTORERT CON HY NOT GRY CO.			0 0 0,500,650 0				13,409	13,449	482,3
FACULTY ROBUSTNOENT DOWN'S SERVEY DOWN'S SERVEY SERVE			0				13,409	13,409 0 0, 101,594	482,3
ACUSTONENT CONSTRUCTOR CONSTRU			0 63,741,374				13,409	13,409 0 0,101,504 0 0 34,558	182,3 182,3 1,702,7
COUNTY STATE OF THE COUNTY OF THE CO		-53,286,249 0 0 0	0 0 -63,741,374 -490,600	:			13,409	13,400	182,3 3,700 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,10 3,10 3,10 3,10 3,10 3,10 3,10 3,10
COL NI COL CON MY SOF ON Y COLOR CON MY SOF ON Y COLOR CON MY SOF ON Y SOF ON CON MY SOF ON Y SOF ON CON MY SOF ON Y SOF	0 -33,726,749 -3 -0 -0 -0	5) -33,280,280 0 0 0 0	0 63,741,374				13,409	13,400 0 0 101,50 0 34,50 33 34,50 33 6,440	482,3
COLUMN TO THE COLUMN	0 -33,226,749 0 0 0	0 -33,786,246 0 0 0 0	0 0 -63,741,374 -490,600				13,409	13,400	182,3 3,700 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,107 3,10 3,10 3,10 3,10 3,10 3,10 3,10 3,10
COUNTY SET OF THE COUNTY SET O	33, 226, 249 0 0 0 0	0 -33,286,246 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-83,741,374 -490,600 -1,766,867 0		. (0.082)	+577K / 25 pcs	13,409	13,400	1823 1707 1406 1406 1406 1206
COUNTY OF THE CO	9 -33,788,249 0 0 0 0 0 0	-53,286,24W 0 0 0 0 0 0	0 0 -63,741,374 -490,600		.0.982 -0.488		13,409	13,400 0 0 101,50 0 34,50 33 34,50 33 6,440	1823 1707 1406 1406 1406 1206
COUNTY OF THE COUNTY OF T	0 -33,786,149 0 0 0 0 0 0 0 0 1,282,607,03	0 -53,286,246 0 0 0 0 0 0 0	-83,741,374 -490,600 -1,766,867 0		-0.68e	+577K / 25 pct +5609K / 25 pct	13,409 200 200 300 3,414 337 41,414 42,56 43,414 43,514 43,514 43,514 43,514 43,514 43,514 43,514 43,514 43,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44,514 44	13,400	182,5 170, 143) 143) 123, 225,
COUNTY OF THE COUNTY OF T	9, -33,788,245 3 0 0 0 0 0 0 1,282,662,035 -1,0000,000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-83,741,374 -490,800 -1,766,887 0 0 137,381,644		-0.49a	+8399(1,25 pc: +8399(1,25 pc:	13,409	13,600	1823 1707 1401 1401 1203 1203 1703
ACCEPTANCE OF THE STATE OF THE	0 -33,786,749 0 0 0 0 0 0 -0 -1,282,665,03 0 -10,000,000	50.286,246 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 -63,741,374 -490,600 -1,768,867 0 137,381,646 0 129,295,950		-0.68e	+\$57(K) 25 pci +\$59(K) 25 pci 413(K) 25 pci	13,409	13,600 1,101,584 24,535 34,535 34,535 4,444 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4,535 4	182,3 3,700,7 3,307,3 4,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3 1,331,3
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CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

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DX HY SW3 GCY	26,151,616,608	-229.543.192	427,939		0.052	-\$485K / .25 pct		20.00	
DX MY 560 05Y 23-10	0	0	4				1::::3		
DX HY SCE 05Y 10-35	-1.485.000.000	27,175,500,000	a		9.217	41,927K / 25 pct	11.622	1,963,216	47.0e6.4
D# HY 503 (CY 19-25	1.410.000.000	1,269,000,000	-239,370		+0.031	43.525K / 25 pct	11:34	671,978	10 130 6
DX HY 563 95Y 75-35	663,000,000	-86,300,000	-9,478		+6.005	+\$1,656K / ,25 pct	417.031	439.477	1000
DX MY \$45 05Y 25-100	-100,000,000	3,000,000	-179,081		0.002	-\$238K / .25 pct	-65,651	46 711	960.4
DX HY 563 07Y	3,281,187	-3,261,187	5,923,695		0.408	+\$5.5K / 25 pct	- 2.139	12 426	
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		DOE LOOK \$10 EUM  DOE LOOK \$10	806,145,865 0 0 0 110,000,000 3,965,000,000	1,084,851,015 0 0 0 -407,000,000 -1,596,000,000	0 0 07,586,254		a.ms . 0.01	+\$775K / 25 pct +\$7,130K / 25 pct	3 by 7 927 6 bes 1 989 808	40,6s 1,491,0s 1,796,244	1	\$80).7 \$80).8 7,000,7
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CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

DX HY 510 u/Y 10-15	٥		o			100	45,434	10,104	2,172,0
DINY 5 10 0 / 2 15 25		۵.					20,650	20,988	127.5
DX HY 511 (5Y	-4,850,456,191	980,243,839	6,843,594		43 801	+\$2,072K / 25 p	4,095	4,605,168	35,642
28 MY 511 CLY 67-16	0	٥	0				1		
DI MY 511 GOY 16-15	223,000,000	516,600,000			+0.363	+\$272K / 25 pt	64,581	- 418,742	17,500,0
X HY S1165Y 15-25	865,000,000	-5,273,500,000	0		+0.415	+\$2,488K1.25 g	96,101	3,850,820	79,987,1
DR HY S11 GLY FLUS	250,000,000	375,000,000	-5,643,594		0.326	•8625K / 25 pa	5.557	762,590	10,3393
BARY SEEDLY 12-12-2	-958,000,000	334,600,000			-0.129	-\$2,291K / 25 p	1 724,828	1,150,129	***** NZ.013.3
X HY S1167Y	547,903,262	536,903,262	o		0.742	+\$1,13267 25 (	ct : 155,540	2,998,335	11111 94390
X RY \$31 475 FO-111			a		1. 2				1201211112
EX MY 531 A7Y 20-15	50,000,000	-20,000,000	a		43.435	+147K / 25 po	1 3 300	-50,726	2.343.5
EX MY 5/20/07/15/25	-50,000,000	69,000,000	a		0.003	475KJ 25 6c	11.277	200	10183
X HY 5 11 6/Y 25-39	٥	٥	a			1 1 1 4	:k::::::	in the second	
DERY STERVE DATE:	100,000,000	70,000,000	c c		+0.097	+\$245K / .25 pt	3,500	107,852	2.463.1
DX MY Sedept	-9,375,000	4,375,000	0		0.348	523K / 25 pc		27,749	Lista )
DX MY STAUCK	-409,625,000	409,625,000	a		1.358	\$803K / .25 pc	C Consid	5,176,648	
IX HY MONTY	-627,375,000	627,375,000	٠ ۵		1.665	42.005K / 25 p	i :::: 590	12,945,750	ili iki sari
DX MY 5-16 05Y	426,875,000	425,875,000	0		1,361	32,249K / 25 p	1 7005	11,730,600	1111106502
DX MY 5-17-01Y	-1,033,812,500	1,033,612,500	d		1,725	42,507K / 25 p	1	16,869,216	174 037
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3X HE 7 1 586- to 45	10,000,000								
trategy D9.USD	10,000,000	•		340.44213.2032					
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OX BY NOVEMBER 25-15-	875,000,000	437,500,000	a		: +\$2,166K / .25 pc	008,251	1,096,655	23,000
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OX HY 615 OCY  trategy 27B EUR  DUSTIDENT  BACK THE SCHOOL  BACK THE SCHOO	0 30,447,498,698 -1,940,000,000 40,000,000	5 5.442,633,698 32,010,000,000 -280,000,000	0 0 0		-\$1,011K / Bp - \$4,850K / 25 pet - \$100K / 25 pet -	2,559,812 2,559,812 460,224 10,365 360	7,500 3,046,828 360,685 -12,441,120 16,055,027 -18,760	8 234 8 234 96 20 41 54 56 36
Trategy 27B EUR DUSTRIENT BASK DIN SCHOOL	0 30,447,498,698 1,840,000,000 40,000,000 0 -35,000,000	5 6,442,630,698 32,010,000,000 -290,000,000 0 43,000,000	0 0 0 0 0		-\$1,011K / bp -\$4,850K / 25 pd -\$100K / 25 pd -\$55K / bp	2,559,812 2,559,812 460,224 10,365 360	7,500 3,046,878 760,665 -13,441,126 16,065,027 18,760 -15,340 -297,925	3,236 3,236 3,151 3,64,53 3,64,53
DA MY 615 GEV  Trategy 27B EUR  DUSTRIEN  BACK EN 807 DEV   0 30,447,498,690 1,840,000,000 40,000,000 -35,000,000 -560,000,000	5 8,442,630,696 32,610,000,000 -280,000,000 6 43,000,000 551,000,000			-\$1,011X/bp - -\$4,850K/25 pct - -\$100K/25 pct - -\$5,5K/bp - -\$505K/bp - -\$705K/bp -	2,559,812 2,559,812 360,465 460,224 10,365 10,365 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,465 100,	760, 655 3,046,8728 760,665,071 16,065,071 16,765 207,973	3,236 - 36,30 - 31,51 - 36,33 - 5,36 - 1,22 - 1,23 - 1,24	
IX HY 6/5 GTV  IV attegy 27B EUR  JUDISTICIES  BACK EN BOT DAY  BACK EN BOD DAY  BACK EN BO	9 30,447,498,698 -1,849,000,000 -0,000,000 -35,000,000 -560,000,000 -4,819,000,000	5 6,442,638,686 32,610,000,000 -260,000,000 0 43,000,000 551,000,000 674,660,000	0 0 0 0 0 0		-\$1,011X / 5p - -\$4,850X / 25 pci - -\$100X / 25 pci - -\$5,5X / 5p - -\$59X / 1p - -\$763X / 5p - -\$15,5X / 5p -	2,559,812 2,559,812 2,600,24 110,34 110,34 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4	760 665 -1264 8 720 -1264 8 720 16.065 (127 -16.340 -207 822 -503 827 822 -503 827 828	\$234 \$234 \$4154 \$4154 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5
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IX HY 615 GTV  TUTOGGY 27B EUR  JUUSTICION  BACK DIN BOTONY  BACK DIN BOTO	9 39,447,498,698 1,949,000,000 0 0 -35,000,000 -560,000,000 -4,819,000,000 -680,000,000 0 0 -8,819,000,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 5,442,638,696 32,919,000,000 0 49,000,000 51,000,000 574,840,000			-\$1,011X / 5p - -\$4,850X / 25 pci - -\$100X / 25 pci - -\$5,5X / 5p - -\$59X / 1p - -\$763X / 5p - -\$15,5X / 5p -	2,559,812 2,559,812 2,600,24 110,34 110,34 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4	760 665 	\$236 \$236 \$41,51 \$64,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55
IN AMENINATION  INDICATE STATE STATE  AND STREET  AND	9 39,447,498,698 1,949,000,000 0 0 -35,000,000 -560,000,000 -4,819,000,000 -680,000,000 0 0 -8,819,000,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 5,442,638,696 32,919,000,000 0 49,000,000 51,000,000 574,840,000	0 0 0 0 0 0 0		-\$1,011X / 5p - -\$4,850X / 25 pci - -\$100X / 25 pci - -\$5,5X / 5p - -\$59X / 1p - -\$763X / 5p - -\$15,5X / 5p -	2,559,812 2,559,812 2,600,24 110,34 110,34 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4	760 665 	\$236 \$236 \$41,51 \$64,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55 \$54,55
TO ANY 511 617  TO ATOMOTY 27 B EUR ANALYTIS SCHOOL ANALYTIS S	9 39,447,498,698 1,949,000,000 0 0 -35,000,000 -560,000,000 -4,819,000,000 -680,000,000 0 0 -8,819,000,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 5,442,638,696 32,919,000,000 0 49,000,000 51,000,000 574,840,000			-\$1,011X / 5p - -\$4,850X / 25 pci - -\$100X / 25 pci - -\$5,5X / 5p - -\$59X / 1p - -\$763X / 5p - -\$15,5X / 5p -	2,559,812 2,559,812 2,600,24 110,34 110,34 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4	760 665 	\$234 \$234 \$4154 \$4154 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5453 \$5
DAMESSOR Trategy 27B EUR DUSTRIENT RASK NIT SOLDER RASK NIT SOLDER SOLD RASK NIT SOLDER SOLDER RASK NIT SOLDER SOLDER	9 39,447,498,698 1,949,000,000 0 0 -35,000,000 -560,000,000 -4,819,000,000 -680,000,000 0 0 -8,819,000,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 5,442,638,696 32,919,000,000 0 49,000,000 51,000,000 574,840,000			-\$1,011X / 5p - -\$4,850X / 25 pci - -\$100X / 25 pci - -\$5,5X / 5p - -\$59X / 1p - -\$763X / 5p - -\$15,5X / 5p -	2,559,812 2,559,812 2,600,24 110,34 110,34 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4 150,4	3,046,028 3,046,028 30,441,102 16,265,027 18,365 20,522 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20,523 20	198, 209, 209, 201, 201, 201, 201, 201, 201, 201, 201

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

TRAUX I'M SOS 107 00 65	2,083,000,000	4,686,750,000	o Carrier	-Q 178	- 45 208K / 25 pc	1,059,552	4,250.70	33,664
RAXX I'M YOU TOY US US	-30,000,000	112,500,000	0	-0.073	+875K / 25 pct	18,700	23.74	2789
RANK CHIEFF SOFEL CO	-450,000,000	1,603,000,000	9	+0.2	+\$1,145K1,25 p	220,627	1,000,93	46,826,1
RAXX I/N SL9 107 02-52	-1,088,000,000	3,150,600,000	0	- 42	+9858K / bp	1 887,504	5,967,33	71,200
FRANK N'IN 500 SOY 12072	-3.355,000,000	5.374,500,000	o	-4.5	42,425K10p	584,781	11,228,43	
RAKK SIN 500 10Y 22-100	5,731,000,000	-3,094,740,000			\$4,489K / bp	1.5211,408	1,597,83	90,834,3
TRAXX CM 519 00Y	-161,250,000	-161,250,000	0	1-10.6	+\$83K / bp *	* 116,522	850,93	50,500
						420,550	-32,328,70	8 30,496,7
trategy 27C USD								
DUUSTRESIT		٥						0
DI IC 595-byr	59,158,340,468	-0.624,659,332	O	+7.0	+\$585K / bp	2.762	3,221,41	
Daile Schreit europ	-2,216,000,000	67,586,000,000	d	-0.432	+\$4,220K / 25 p	25,578	7.064.00	
DX (C 565 NOY JULY		0	o d		100000000000000000000000000000000000000	1:::::	100 100 100	
DRIG SERVEY JEHR	-90,000,000	27,000,000	o o	+0.174	+\$225K / .25 pc	931	157,82	-
DX IG 800 05Y 19 15	-600,000,000	50,000,000	0	0.006	+61,250K7,25 o	1 7 7 031	-90,48	
DX 80 525 614 11 10	-2,300,000,000	138,000,000	o c	0.000	+\$5,750K / .25 p		127,63	
DX 95 500 05Y 30-109	1,000,000,000	-20,000,000		0.014	42,415X / 25 pc		138.67	
9X NS 500 92Y	12,784,034,708	-208,785,292	0	+6.0	- +\$53K / bo	1::2744	292,53	91111111111111111111111111111111111111
DEPG SON GRY BUILD	-1,135,000,000	12,939,000,000	0	4,367	+\$2,181K1,25 p		3,234,48	
SEIG Sab (GP 30.07	0		d	222	11.1.1.1.1.1.	111110		
DX 10 569 677 97-16	-145,000,000	565,500,000	o de la companya de l	0.730	+\$383K / .25 pp	7,783	330.98	9 12043
IX IC 500 024 10:15	0	0	d		1.3	1	1. 11.12 . 15.1	
DE IG SOORLY 15. IF	0	9	d		3 197		2 22 31 32 3	
DX IG 569 60Y 10:109	5,930,000,000	-533,700,000	, d	10,022		22,394	1 275 17	37,7033
DA RG 5/02 10Y	-1,374,502,583	4,529,057,417	o o	-8.4	42.300K / bo	258,485	983955.92	7 :::::::::::::::::::::::::::::::::::::
DK 6G 569 for Cock	3,035,000,000	13,354,000,000	d	12(24)	45,779K / 25 pc	1 -1917.548	27,965,22	
DX 50 509 164 9007	-57,000,000	349,900,000	d		-\$143K/, 25 po	79.350	1 122 1	n
DEIG SIN 16Y III.19	-1,173,000,000	5,951,900,000	6	0.041	. 1483,800K / 25 pe	310,200	412.19	at : : : : : : : : : : : : : : : : : : :
DARGISCO REY 16-15	4674,000,000	1,872,000,000	a	0.079	+\$1,580K / 25 p	: :: :: bta	481.47	d:::::;3460;
DING NOW YOU TO USE	-1,089,000,000	1,349,700,000	o o	4.051	. 452,673K) .25 p	1 : 130,041	705.51	il.:::::33.662
DX (G 549 16 Y 16 159	8,009,000,000	-2,162,160,000	6	0.079	421,723K) 25 p	4 1.665.422	6,360,48	H.601
DK IG 515 65Y	-98,625,000	46,625,000	d	+9.4	+\$35K / bp	420	320,19	
DX 10 S16 55Y	-1,920,625,000	-1,920,625,000	o d	-9.4	48785K / bp	20,460	7,187,42	170,617
						*******	560,461	9 -215,129,3
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DA HY 513 05Y	1,392,081,983	71,936,017	0	0.092	-\$151K / .25 pct		22,242	3,428,
DX MY 51 to 17 ep 10	0	0	0				10.00.000	:::::::::::::::
DX HY 518 05Y 10-15	-80,000,000	1,454,000,000	9	0.217	-6104K / 25 pot		106,381	852
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DX MY 503 07Y 10-79	0	0	9		100			
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DX HV 5/3/624 34/10/			9				9	
DX HY SURVEY	77,227,681	-35,772,319	o a	0.187	\$80K ( ,25 pcs		43,479	1.040
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K MY 519 IST 15/25	0	0	9			0		*******
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12 MY 5-10 PCY 30-800		0	0			0		*********
2X HY 510 97Y	-2,788,643,713	830,356,287	Q.	1 107	\$1,744K / .25 pet	×70,142	7,459,387	
DX MY 510-57Y (3-10	0	0	C C	11. 11.		0		********
02 MY 510 97Y 19-15	2,970,500,000	1,782,300,000	0	0.16	\$2,499K / 25 pct	-275,443	2,609,478	187,253
DX HV 519 (2Y 19-25	-217,000,000	1,179,500,000	0	- 0.512	4843K / .25 pet	130,565	2,263,967	
33 HY 510 07Y 25-25	. 0	0	o c	8:2:1:12		******		
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DA HIV CAN BUT	178,250,000	-173,250,000		1,663	\$420K/ 25 pet			34.50
DE HY SIG OSY	62,500,000	82,500,000			+\$152K/ 25 pct	256	795.462	27.279

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From: Venkatakrishnan, CS <cs.venkatakrishnan@jpmorgan.com>

Sent: Thu, 22 Mar 2012 13:47:36 GMT

To: Broder, Bruce <bruce.broder@jpmorgan.com>
Subject: RE: Privileged and Confidential

res, piease, on the i	ast question. Thanks, Venkat
From: Broder, Bruce	ē
	rch 22, 2012 9:46 AM
To: Venkatakrishnar	
Subject: RE: Privile	ged and Confidential
We can't explain the	eir Var movement under the old model as we don't see any info about their (risk) positions, eg we
don't get sensitivitie	es. We had asked Pete's team to explain the movements in the old model, but they were never able
to and then they had	d no reason to as they already knew they were changing models. It took them a while, but they
finally agreed their of	old model was crap.
	inquire as to why their VAR/Svar declined in the new model? We might be able to get an answer
ourselves or through	n Pete on that one.
From: Venkatakrish Sent: Thursday, Ma	nan, CS rch 22, 2012 9:27 AM
To: Broder, Bruce	1911 22) 2722 7721 777
	ged and Confidential
Having said that, wh	y did Var (and 5Var) go up from Jan to Feb in the old model but decline in the new model?
From: Broder, Bruce	
	rch 22, 2012 9:01 AM
To: Venkatakrishnar	
Subject: RE: Privile	ged and Confidential
now apples to pears	and differences with the old Var model. I'm not sure this really makes it apples to apples. I think it's instead of apples to oranges. Apples to apples would be to just drop the Var/StressVar and focus
	y. CIO had no choice but to do the VAR model change. They were using a disapproved VAR model
	d have prevented the regulators from approving CRM for CIO's correlation trading portfolio for if it
had been kept (ever	n though CRM does not depend on VAR).
	n though CRM does not depend on VAR).
had been kept (ever	n though CRM does not depend on VAR).
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	n though CRM does not depend on VAR).

From: Venkatakrishnan, CS Sent: Wednesday, March 21, 2012 1:44 PM To: Broder, Bruce Subject: Re: Privileged and Confidential

Got it. Elsewhere but returning.

From: Broder, Bruce Sent: Wednesday, March 21, 2012 01:40 PM To: Venkatakrishnan, CS

Subject: RE: Privileged and Confidential

The factor is .08 = 1/12.5.

"On January 18th, CRM capital was \$3.2". This is correct, the CRM Capital was 3.1548, or \$39.4258 RWA.

In the Jan column, you see 31,100 RWA which was the reported CRM RWA. It represents the Jan average. Jan 18 was the last and highest of the 3 CRM measurements for CiO in Jan.

(26B is the Q4 reported average result).

Are you in your office or elsewhere?

From: Venkatakrishnan, CS

Sent: Wednesday, March 21, 2012 1:26 PM To: Broder, Bruce Subject: Re: Privileged and Confidential

Then what was the \$3.2bb? 78bb*0.085 is 6.3 approx but 26bb*0.085 is not 3.2bb

From: Broder, Bruce Sent: Wednesday, March 21, 2012 01:21 PM To: Venkatakrishnan, CS Subject: RE: Privileged and Confidential

6.3 is the standalone amount. Corresponds to 78,763 in the table below under pre-split.

From: Venkatakrishnan, CS Sent: Wednesday, March 21, 2012 1:16 PM To: Broder, Bruce Subject: Fw: Privileged and Confidential

In my own memo from yday, there is an inconsistency between two pre-split measured of capital: \$6.3bb from Anil two weeks ago and \$5.4bb from the table below. Do you know why?

From: Venkatakrishnan, CS

Sent: Wednesday, March 21, 2012 07:51 AM To: Venkatakrishnan, CS Subject: Privileged and Confidential

CIO CRM --- The Highlights

Background

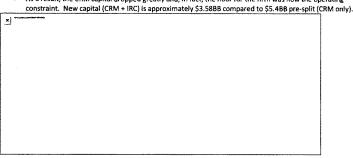
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- Comprehensive Risk Measure (CRM) allows for internal modeling of Correlation Trading positions and their associated hedges
  - These exist at JPM within the IB and the CIO
- The regulations also calculate a "Floor" to this capital
   Other non-securitization positions use Incremental Risk Charge (IRC) as the method of calculation
- Both CRM and IRC are based on a 99.9% confidence interval and a one year horizon BUT
  - o IRC assumes a three month holding period with rebalancing quarterly to compute an annual number

  - o CRM assumes a one year holding period with no rebalancing
    o A 30 year bond hedged with a 3month CDS will be fully hedged from a default risk perspective in the IRC calculation for one year but will be unhedged for nine months in the CRM calculation

#### The Issue at CIO

- On January 18th, CRM capital was \$3.2BB but was recomputed to be \$6.3BB on Feb 22nd
- The primary reason for this was the net addition of \$33BB notional in index CDS between Jan and Feb.
- The Model Risk group assigned a team to work with CIO to explain the CRM model and to understand the impact of these new positions on their capital.
- The team came to the conclusion that many of these trades did not constitute "optimal" hedges to the correlation book (from a tail risk perspective) and that they should be given IRC treatment not CRM treatment.
- Hence, for modeling purposes, we split the CIO's Correlation book into two parts: Correlation Trades plus related hedges in one part, and remaining index positions in another part.
- As a result, the CRM capital dropped greatly and, in fact, the floor for the firm was now the operating



The decline in capital when positions were moved to IRC was rather greater than we expected. An important reason was a \$125BB curve trade in indices (long risk maturing in 2014 ~ 2017) and short risk maturing in Dec 2012. Given the CRM approach of not replenishing maturing trades, the model calculated capital based on one leg of this trade (\$12SBB of long risk) remaining unhedged for three months (Dec 2012 to Mar 2013). IRC, on the other hand, assumes it was hedged.

#### Rationale and Next Steps

- We think that the rationale of splitting the books is well-founded: The correlation book contains tranche trades and hedges which work well in tail scenarios; the index book (under IRC) contains the rest.
- This logic should be used going forward and index trades which hedge tranches booked in the correlation book and the others in the index book.
- The question is whether we re-calculate capital in this way from (a) the start of the quarter; (b) some point midquarter; or (c) the date on which they are re-booked.

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# Credit Derivatives Terminology

- Credit Default Swap
- Notional Amount
- Credit Default Indices
- CDX and iTraxx
- On-the-Run and Off-the-Run
- Traded Maturities/Duration
- Tranches
- Spread
- Carry

- Curve
- Shape of Credit Curve
- Bear Steepener/Flattener
- Bull Steepener/Flattener
- Forward Trade
- Skew
- Convexity
- Tail Risk
- CS10% or CSW 10%
- RWA

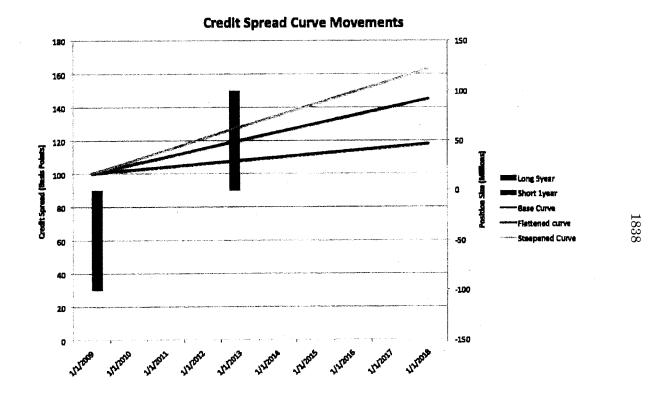
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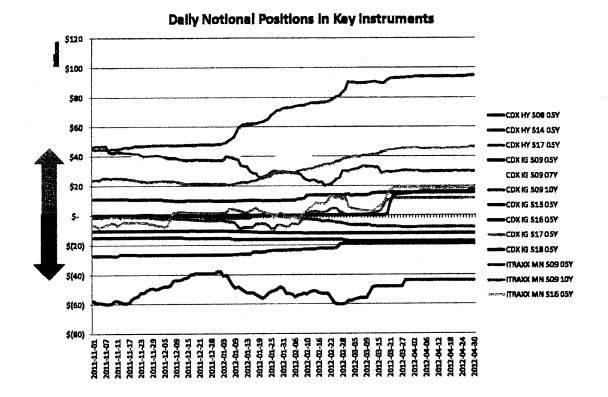
# **CDX Indices**

Index Name	Number On-the-Run of Series entities		Traded Maturities	Tranches	Description		
CDX.NA.IG	125	18	1, 2, 3, 5, 7, 10	0-3, 3-7, 7-15, 15-100	investment grade CDSs		
CDX.NA.IG.HVOL	30	18 1, 2, 3, 5, 7, 10 n/a		High Volatility investment grade CDSs			
CDX.NA.HY	100	18	3, 5, 7, 10	0-10, 10-15, 15-25, 25-35, 35-100	High Yield CDSs		
CDX.NA.XO	35	11	3, 5, 7, 10	n/a	CDSs that are at the crossover point between investment grade and junk		
CDX.EM	14	17	5	n/a	Emerging market CDSs		

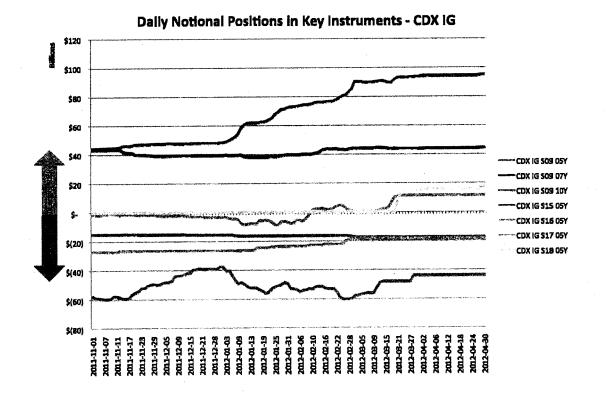
# iTraxx Indices

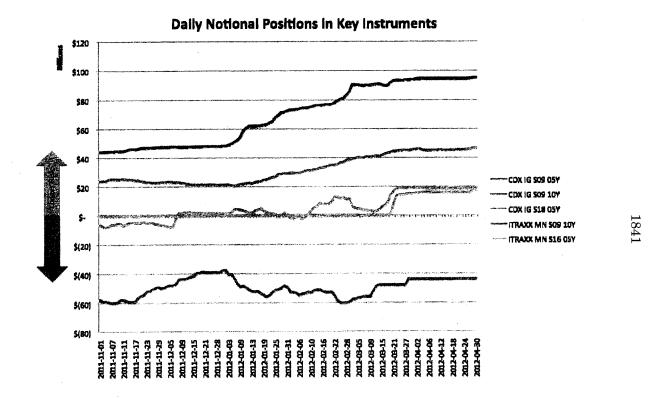
Index Name	Number of entities	1		Tranches	Description		
iTraxx Europe	125	17	3, 5, 7, 10	0-3, 3-6, 6-9, 9-12, 12-22, 22- 100	Most actively traded names in the six months prior to the index roll		
iTraxx Europe HiVol	30	17	3, 5, 7, 10	n/a	Highest spread (riskiest) non- financial names from iTraxx Europe index		
iTraxx Europe Crossover	40	17	3, 5, 7, 10	0-10, 10-15, 15-25, 25-35, 35- 100	Sub-investment grade names		

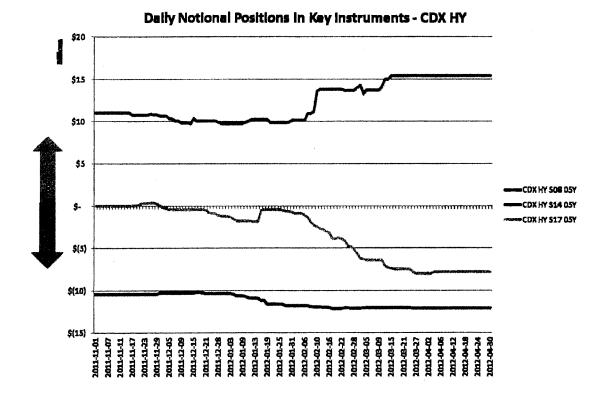




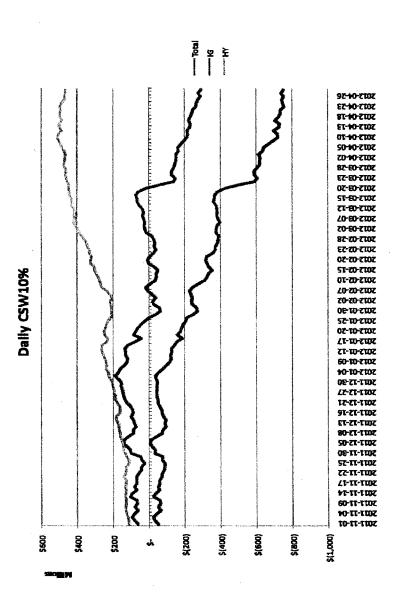


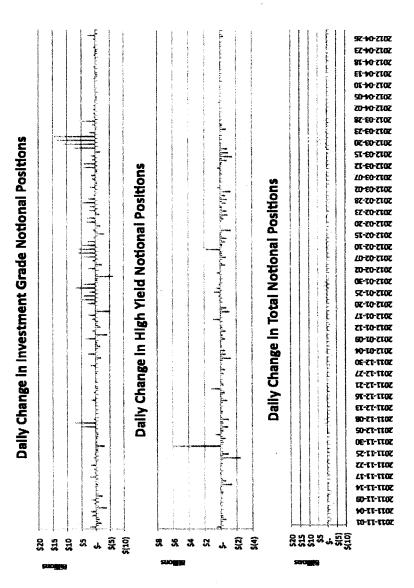




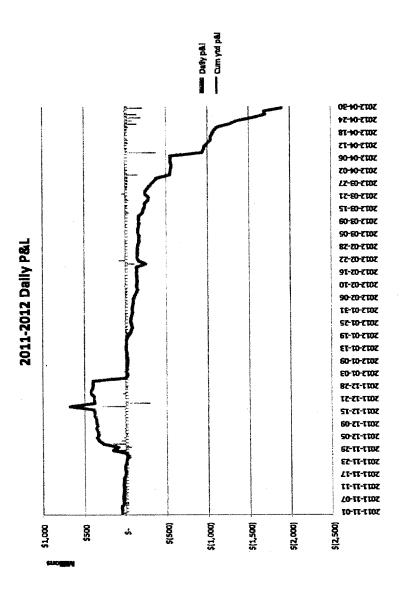




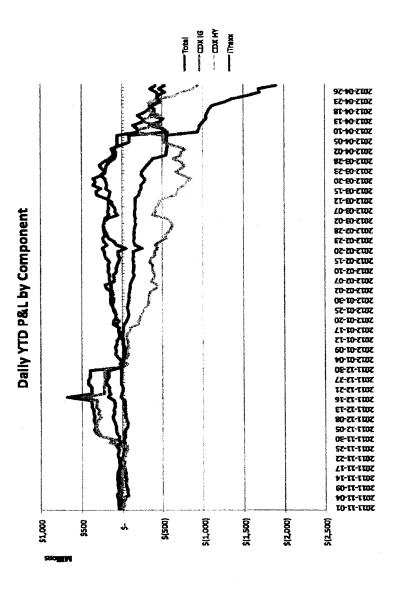






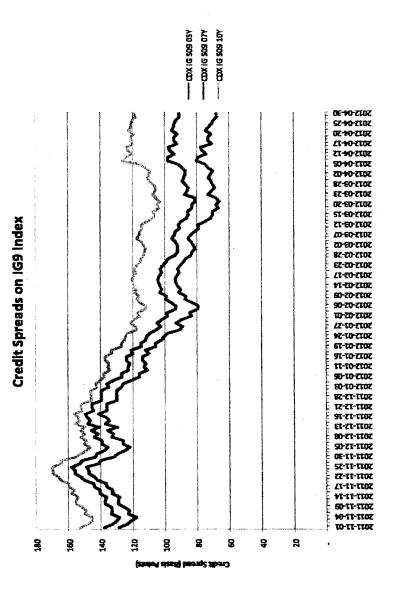




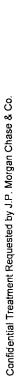


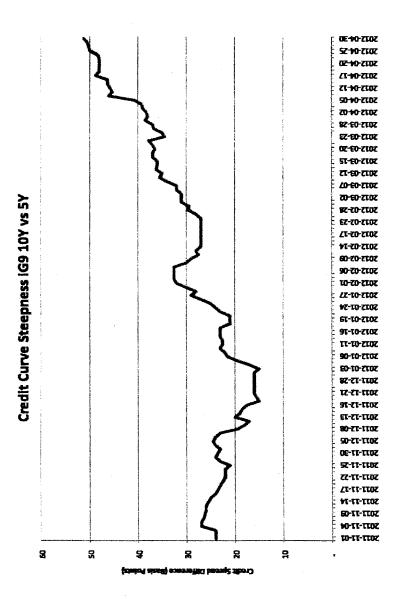
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# TRANSCRIPT OF AUDIO RECORDING PRODUCED TO THE PERMANENT SUBCOMMITTEE ON INVESTIGATIONS

Date: April 20, 2012 Telephone Call

Parties: Achilles Macris, Daniel Pinto, Javier Martin-Artajo

Identifier: OCC Box 07\Disc 14\20120711_JPM-CIO-A\NATIVE_DATA\JPM-CIO-PSI-A 0000140

Mr. Macris: Hey man.

Mr. Pinto: Yeah, so what's up?

Mr. Macris: No, it's not like that. You know, what is going on here is that this has taken, like, in a

life by itself. So we are acting after Ina's instruction, you know, who, you know, wants to talk to Hogan about it. And, I don't know if she did already or not, or, you

know, whatever.

Mr. Pinto: Who, Ashley?

Mr. Macris: Huh?

Mr. Pinto: Who wants to...

Mr. Macris: Ina, Ina, Ina, Ina.

Mr. Pinto: About this issue?

Mr. Macris: Mmm.

Mr. Pinto: Ok, well then, I need to talk to Hogan too.

Mr. Macris: You know, I don't know, listen, I mean, to me -

Mr. Pinto: So ah, this one. I, I, we don't have any collateral, significant collateral disputes with

anyone. I will, I'm trying to get Jean Francois to really check on all of the valuations of the positions. So how, how many millions of dollars are we talking about? So I, I just don't understand, why, why could someone in March, strange as that might

sound --

Mr. Macris: No, like you're not, listen. In a, the way that, you know -

Mr. Pinto: And how does it go to Ina? Because Ina is not the most stable person in the bank, so

Mr. Macris: Yeah, that's what I'm saying. You know it's gotten away from me here, this one.

You know, because, you know, you know, the story is like, you know, that, you know, Javier has, like, you know, sort of, some, you know, feedback and, you know,

issues, you know, with the dealers.

Mr. Pinto: But Achilles, Achilles.

Mr. Macris: Hmm?

Mr. Pinto:

I should say that it's a situation where I need to do a formal investigation. And, really, if Javier is fantasizing about this, he's going to really, he will, he will have a bad, a hard time here. I mean, if he's right, I need to fire a lot of people. So—

Mr. Macris:

Yeah, exactly, you know, I mean, I'm not on that page so much. Like, I don't disagree with you. You know, this elevation is not my style, right? But you know the story here has to do much more like, you know, the way that this was put, like, you know, forward, you know, today. All of this happened like, you know, kind of life, like in the last, you know, sort of two hours. You know, I've been told exactly how to do this. You know, so the issue that has been described is, you know, sort of in the morning call, you know, that's like, you know, two hours ago. So do you understand how rapidly this has developed? You know, Javier goes and mentions, you know, listen, we are making a mockery of JP Morgan, you know, in the street. Because, you know, we are long investment grade and the IB is like, you know, short investment grade, and we are battling it in a visible way that is, you know, creating, like, you know, a lot of question marks. And then, you know, what do you mean by that? And, you know, the issue goes like, you know, ok, what happened, like, you know, with the disclosure of the position, with the knowledge of the methodology, the capital —

Mr. Pinto:

But what I understand,

Mr. Macris:

Mmm, mmm.

Mr. Pinto:

From what I understand, how we got here, honestly, I don't care. What I see is that it is an accusation that the investment bank, with someone leaking the position of CIO, is acting against CIO on mismarking the books to damage CIO. And the second thing is that —

Mr. Macris:

No, it's not, that is not to my understanding. My understanding is, listen, I, yeah, I don't know. These are very aggressive comments. I mean, the way I said, like, you know, to Ashley, is like I don't know, you know, whose fault this is, or anybody's, you know from my side, or any other side. Like, you know, do you understand? Like I'm not, this isn't like, I don't know how, you know this has become, like you know, an issue of disciplinary action. You know, the call was more like, you know, to say, that you know, that there's a behavior from the dealer, you know, that is consistent with like in a nondeposit.

Mr. Pinto:

Yeah, but whoever, if it's you or Javier, or someone, picked the way that you picked in order to escalate this one, so that may have been intentional. It's not that it wasn't intentional. It's not intentional anymore. So now that we go so far up with it, we need to, so one thing is that you tell me, I think, that this trader is doing something incorrect. I go and check. And the other one is it goes all the way to Hogan to come back to me. Then, yeah, that may have been intention, but unfortunately, that train left the station.

Mr. Macris:

Well, it is what it may. It is what it may, but I'm not going to play broken phone with anybody either. You know what I mean? You know, you know, so, yeah, you know.

Mr. Pinto:

Yeah, if that's what it is, then we need to investigate what it is and that's it.

This issue, like you know, the issue that, you know, we'll have subsequently, and Mr. Macris:

that is, like, something that I agree with, you know, that I don't think that it is appropriate that JP Morgan battles this in the market. And, you know

Mr. Pinto: But Achilles, you are working on the assumption, that the guys in my, someone gave

them the positions that you have. Which, I honestly, don't think that is the case.

Mr. Macris: Javier can prove this.

Mr. Pinto: He can prove it?

Mr. Macris: Mmm hum.

Mr. Pinto: Yeah, well, then, that's fine.

Mr. Macris: But all I'm saying is that's not the gravity here. You know, you, you're giving it this

disciplinary spin to this that is not, like, you know, the central gravity the way I'm thinking about it. The way I'm thinking about it is, like, you know, when like, you know, basically, you know at CIO we [Indecipherable] with Boaz and Deutche, that was like in JP Morgan by Deutche. You know what I mean? You know, I think, you know, the current, like, you know escalation, that we have, like you know, between, you know, you know, let's say, you know, two different positions in the same firm. Even if that becomes like, you know, sort of elev -- you know, I'm led to believe that this is not a public, you know, thing, you know. And we're battling it out in the

Mr. Pinto: Ok. What, what, what are my guys doing? Just tell me. What have they done?

They mismarked the books or they trade against your books, or what? What is it?

Mr. Macris: Ok, you want me to like, you know? Hold on a second. Let me, let's be very accurate because like, you know, this was, you know, they ... Let me see if I can get you here on the speaker. Ahhh, man. This is not about "the guys done." I have not

gotten to what I think is the substance of it, but if you are amused by this conflict, we can have that conversation now. My point is, like, you know, I think that Bruno

will need -

Mr. Pinto: Achilles, you need to understand that this is a very, very, very , very serious

accusation.

Ok, hold on a second. Let's deal with that then and then I'll get to my view of the Mr. Macris:

substance afterwards, ok? One second. [Switch to speaker phone.]

You there?

Mr. Pinto: Yes. I'm here.

Yeah, Javier? [Achilles talking to Javier] I have Daniel with me, and he's telling me Mr. Macris:

what do you think that his guys done wrong. And I mean, obviously, we have a great relationship so he says, and he says, why are you going, like, you know, to, that route? I explain that this is what we've been asked to do by Ina. But there is something, that you have a grievance, yeah? In terms of, you know paying and you collecting this thing. So can you explain it, tactfully? JPM-CIO-PSI-A 0000140

Mr. Martin-Artajo: Yeah, Daniel, hi. Yeah, what I wanted, I reflected to Achilles is that I think that is, is

something that we should discuss internally at JP Morgan, really. I mean, I think

that -

Mr. Pinto: Yeah but, Achilles, Javier, can we specific? What have they done wrong?

Mr. Martin-Artajo: Yeah, no, it's got to do with, with, with the quotes that we're getting and the

behavior of our dealer in regards to the investment grade position that we have. I

mean, it's -

Mr. Pinto: So the, sorry, hold on. The quote that you are getting from who?

Mr. Martin-Artajo: With, I forgot the name of the traders. I'll give you the names. It's called Roman

something. Roman, I'm, I, what I don't -

Mr. Pinto: Roman in New York?

Mr. Martin-Artajo: Yes.

Mr. Pinto: The index trader in the, the, the flow index trader in New York?

Mr. Martin-Artajo: Yes.

Mr. Pinto: So on the quotes, I mean, what? There is someone < laughts> that has no fricking

clue on what you guys have.

Mr. Martin-Artajo: I know. I know.

Mr. Pinto: In New York so -

Mr. Martin-Artajo: I know. The only question, the only problem, Daniel, and maybe this is a longer

conversation is that, we, we are hearing from, from counterparties in the market that they are talking about some of the positions that we have. And, and I am

concerned about that, right? I don't want -

Mr. Macris: [Interrupting.] That's not the issue. The issue is not [indecipherable]. Say it exact

what you mean.

Mr. Pinto: But, so, I've very bothered. So what you think is that Sanjay, or Olivier or someone.

So clearly, the only one who knows who the positions are, are, is Olivier, and that's it. So do you think that Oliver went and talked to some of your counterparts or our

counterparts of all of the positions that you guys have in the market?

Mr. Martin-Artajo: No, I, I don't think it's that. I think that, what I'm trying to see is that, what I'm

trying to say is that, there is an issue here with our IB in terms of the positions that

we are trying to -

Mr. Pinto: But, but, Javier? Just to be, so, in the way that this was portrayed to me, is a very,

very serious accusation. So, then, there are two things that I want to know. So if there are any, One, could be that you are concerned about something that may happen. And that is very valid, but if it didn't happen, it didn't happen. So my question is, there is something that DID happen, that in any shape or form, you

think that our investment bank is trading against your position, because the position was leaked in some weird form to them.

Mr. Martin-Artajo: Ok, I don't think that there is anything here that has happened that is of, of a serious nature. What I think is happening here, that is of a serious nature, is that what can happen with the marks that we get from the investment bank. Ok?

<Laughs> Have you got any? Well, that's it. So now we go to the marks. Have you got any, we don't have any collateral disputes, so, or very little ones. Have you, have you, can you see, any of the marks, that they are deliberately un-, mismarked to hurt your position?

Mr. Martin-Artajo: I have, I have to, I have to show them, I have to show them to you. I mean, I think that this got to do with, with the knowledge of our position and the way that the investment bank is trying to, to position around that with the customers. I do think that that's the whole issue that we have. And then, that is the issue that I'd like to make sure that we keep it inside the company, right? It's something that I –

Mr. Pinto: Yes, but, so I'm asking you, is there any of the marks, that we have put in our books, that they are incorrect? Or malicious, to hurt your position? Yes or no?

Mr. Martin-Artajo: [indecipherable] I'm going to send you that, so that you can judge that, Daniel. I need to send them to you.

Mr. Macris: [Yelling.] Say the examples. What does he put, this is the time, the god damn words, please.

Mr. Martin-Artajo: Ok, what happens is that, every time we put a trade on, I get, you know, I get, sort of like an immediate ask from, from the dealer into the position that we just traded, right? So, I get evidence that they have access either to ICE or to some other way to look at what we do, and you know, I am concerned about that. I am, yeah?

Honestly, I don't, I, I don't know. Is that the case? That someone is accessing your, your position? Because Olivier gave it to them or someone? So I need to fire that person.

Mr. Martin-Artaio: Ok.

Mr. Pinto:

Mr. Pinto:

Mr. Pinto: So we need to be extremely careful.

Mr. Martin-Artajo: That's right. We need to be, I mean, I. This came through, through a very different angle, Daniel. I mean, I, I need to explain you how is it that we are raising this issue through Ina. Well, it came from a very different point of view. It came through, having to reconcile the capital that we using in the business with the actual models that we use that are developed by the investment bank too, with QR, ok?

Mr. Pinto: Yeah

Mr. Martin-Artajo: So we, we came up with, you know, a system, a way to look at all the risk is. You know we look at the VaRs, we look at the stress VaRs, we look at the same thing that you do, ok?

Mr. Pinto:

Yeah.

Mr. Martin-Artajo: So what happens is that we ended up with something that ended up with, you know, with a dialup that we have with Ashley, with Venkat, with, with a lot of people, ok? At the same time, you know, we are, risk management knows that we have large, large concentrations, ok? Now, I, I, I am hearing in the market that, you know, some of the guys in the company are talking to them and wondering what we are going to do with the positions. Now, I, I just want to stop that, yeah?

Mr. Pinto:

But Javier, Javier, Javier, Javier, my friend. You know that over these days, because of the difference in performance, everyone is stating that. So that, it's very likely, I'm not saying that this is true, it may be that you are 100 percent right and I have to fire 10 people here. I don't know.

Mr. Martin-Artajo: Yeah.

Mr. Pinto:

But it is very likely that they are kind of warming you up.

Mr. Martin-Artajo: Yes. <Laughs.>

Mr. Pinto: It's very likely.

Mr. Martin-Artajo: I know.

It happens all the time. Mr. Pinto:

Mr. Martin-Artajo: All the time, man. That's exactly what I, but I want it to be inside the company. I

don't want it to be known out there. And I don't want it be getting, getting -

Mr. Pinto:

But what, what the market knows, doesn't know. So, I don't know what it is. But obviously, you bought those positions in the market so it is very likely that some of the market people can put two and two together. But, let's assume that that's not

the case.

Mr. Martin-Artajo: Yeah.

Mr. Pinto:

So for me, what is important is someone from my group, or Olivier, or Venkat, or Ashley, or someone else, leaked these positions to put you in a position that it will hurt the bank. Really? I, I, it is hard for me to believe that that is happening, but -

Mr. Martin-Artajo: Ok, well, then, help me with something, Daniel, because this is all I need, I need from you. What we need to do is look at what is the real issue here. Are we fighting something that is, that is, that is not the same on the other side of the investment bank and, therefore, is just something that is just dealers trying to do their normal work, trying to see what we were doing, Or are we discussing something that is substantially a mirror image of what the investment bank has. And that's what I told Achilles. Is that we need to, we need to discuss with the investment bank which

of the two cases it is. Is it that we have an issue with, yeah?

Mr. Pinto:

The position that you have, so, I don't know what it is. I suppose that it has to because we have some diversification benefit, by definition you have to put on a

position that is the other way around.

Mr. Martin-Artajo: That's right.

Mr. Pinto: That's, that's quite obvious. But, but that, from there, from there, which is a

fact. Obviously, is a fact.

Mr. Martin-Artajo: Yeah.

Mr. Pinto: And these guys know, that we, as you know, both know, that we are getting some

diversification benefit.

Mr. Martin-Artajo: That's right, yeah.

Mr. Pinto: From there, from there, from there, to go and accuse that someone is putting you in

a position that is harming JP Morgan, by leaking your positions to the market, or by, or by trading against you, or by mismarking the books, it's a very different story.

Mr. Martin-Artajo: That's right. So I want to -

Mr. Pinto: So what I point out is to prove these three factors have not happening or are

happening. And if they are happening, I need to fire a lot of people.

Mr. Martin-Artajo: And if they're not happening, we need to stop that they talk outside the market.

Mr. Pinto: But, you have <a href="https://www.nc.nih.gov/">But, you have <a href="https://www.nc.nih.gov/">https://www.nc.nih.gov/<a href="https://www.nc.nih.gov/">h

market. So what do you got? You get it from Deutche? You get it from Barclays? So where are you getting from? These people, I, I don't know. But we will see. We

will check everything; we always do.

Mr. Martin-Artajo: Yes, please. That's what I'm asking you. I am on your side. Try to, try to, try to see

what we can do about this, because -

Mr. Pinto: Friends, I think that this has, unfortunately, this has took a turn and now it's Hogan

and Ina and the whole world involved -

Mr. Martin-Artajo: Yeah.

Mr. Pinto: Out of something that you suspect, but you don't know, because a Deutche guy or

someone told him.

Mr. Martin-Artajo: No, no, no, no, no, no. That's not, that's not the point. The point is, is that I am working

with, with you guys in trying to disclose information on what we are doing, ok? We are trying to be transparent here, with, you know, we are learning how the risk management and the QR interacts with our books. We are learning what that means for us in terms of capital. I'm trying to optimize capital. I'm trying to get a

lot of that done. And I think that -

Mr. Pinto: You know, absolutely, but that, that Olivier, is that Olivier is working on that. Olivier

is not part of the business anymore. Olivier, I guaranty you, there is, there is no, he is a very honest person. He has no incentive at all to leaking that into anyone,

because he doesn't work there anymore.

Mr. Martin-Artajo: Ok.

Mr. Pinto:

And in any case, and in any case, that someone mismarked the books in March? It

just doesn't make sense.

Mr. Martin-Artajo: Ok, alright, I, I, I, ok, I'm just going to give you some, some, some facts. I, I, I -

Mr. Pinto:

No, what I'm going to do, I would prefer that, that we get, jump inside this thing to

really look into the positions, and see if we have anything that was incorrectly

Mr. Martin-Artajo: Ok.

Mr. Pinto:

And then we will internal audit the whole trading operations. Auditing and we will

do whatever it makes you feel more comfortable.

Mr. Martin-Artajo: Ok, let's do that.

Mr. Pinto:

Yeah, obviously, this is, I would have preferred to deal with this in a different way, but we are where we are, and next time we will be extremely more careful. And, in

marked.

Mr. Martin-Artajo: How would you want to do it then? So that it's not, I mean, I, I'm, you know, I think what we need to do, I mean, for us, really, what I really wanted to understand is that we are in a, in a position where we need to understand very well what the next step is for our book, because, it is, you know the, the, the capital issues -

Mr. Pinto:

But Javier, so these are two very different things. One is that you are accusing

people of wrongdoing. That's one thing.

Mr. Martin-Artajo: Yeah.

Mr. Pinto:

The other one is the externalization thing that we discussed the other day. And that

may or may not go ahead.

Mr. Martin-Artajo: That's right.

Mr. Pinto:

And it's nothing to do with this thing.

Mr. Martin-Artajo: Ok.

Mr. Pinto:

And if you don't want to be a part of it, just don't be.

Mr. Martin-Artajo: Ok, no, no, we do want. But I, I just want to make sure that we don't have a big, I just want to clarify, that, that we don't have a risk management issue. That's all,

Daniel, that we are -

Mr. Pinto:

Yeah, that's fine. But that, at the moment what it is, is a real accusation. It's not that a concern that you may have for the future. And the way that the people think, over this side, is someone in my group, did something wrong. Either mismarked the books or used information that they should have not used to trade against your position and acted against the benefit of the, to harm the bank. So that is what is

floating around.

Mr. Macris:

Hold on a second. Daniel, let me just say to that. Like, you know, this issue, you know, came about, like you know, less than, you know two and a half hours ago. Ok? Let me just say that I talked to you about this. Like you know, so, the meeting was not, like, you know, you concentrate this meeting on disciplinary actions and things like that. I don't know where that's coming from, and I don't know what your conversation was with Ashley. You know, I believe that like Javier has shown me here, enough evidence, that like you know, the people, you know, on the desk know our positions or what we are doing in the market place. You can forward to your staff but you can see it. I don't much care about it, to be honest with you. So there is like, you know, a grievance like, you know, here, about, like you know, the knowledge, you know, of our position on the desk. I'll leave it, like you know, it to that. I don't care so much about it. The purpose of the call with, like, Ashley, that we were instructed to do with Irv. Do you understand that? "Instructed," "Irv," these are the two significant words here. You know, the issue revolved about an administrative solution in what has been perceived "a battle," you know, whether it has, like you know, disciplinary, or doesn't have, it was not like, you know, I don't know. It did not enter my mind. But there is definitely a battle. You know, that, you know, you know they work it out that they -

Mr. Pinto:

A battle? Where, where do you see the battle?

Mr. Macris:

[Talking to Mr. Martin-Artajo.] Can you explain? [Talking to Mr. Pinto.] Because the, I don't know Javier's sort of words, [talking over Mr. Pinto who says, "But Achilles, that's my point."], but you know, you know you find [indecipherable]. Can you find something that explains to people what it is?

Mr. Martin-Artaio: Yeah.

Mr. Macris:

Because I don't want to care about the disciplinary thing. I want to care, like you know, that in my opinion, if there is a short, you know, that needs to be covered by the IB, and we got the long, let's find, like you know, some solutions here. You know, I don't want to get, like you know --

Mr. Pinto:

There is no, I, I, I don't think so. So the last big position that we have against you where we lost money is American Airlines. We hedged you at the end of last year. We lost the money and we were wrong. So, i, i, i don't know. I don't know. It may be another one. I really don't know. You know who are you trading with. But -

Mr. Martin-Artajo: Ok. So then, then what happens is that then we need to settle this inside JP Morgan. If you're right about what you're saying, I have, I have reasons to think that, that, that, you know, I think you need to do a little more work on that. But it doesn't, the issue is, is that we should keep it inside the company, whatever that is. And if there is a trade to be done, we do it internally and we don't force it outside. And if there is no trade to be done in the market, then so be it. But at least I'm clear that -

Mr. Macris:

Our guys are trading in the market day in and day out.

Mr. Martin-Artaio: Yeah.

Mr. Pinto:

My, my, I don't know. I, I really need to, someone to digrate this open in the open of the solution of the so

Mr. Martin-Artajo: That's right.

Mr. Pinto: What is concern for the future, you know, what someone may do and what has

happened.

Mr. Martin-Artajo: Ok, let's -

Mr. Pinto: Clearly, the thing that concerns me the most, at the moment, is to see if someone

has done something wrong, already. Not that you're concerned that they may do something wrong in the future, because, that, that hasn't happened. So –

Mr. Martin-Artajo: Ok, I'll send you, I'll send you through, through Ashley, the, the, you know, the, the,

you know, some of the things that we observe on our side for you to be aware of -

Mr. Pinto: But those are valuations or they are comments?

Mr. Martin-Artajo: Well, they are, they are comments. They are chats. They are marks. They, they are

quite a lot of things really. I mean, I, I don't think there's any, like Achilles said, I don't think this is a disciplinary thing. I, I'm just, I just don't want it to be, in the market. We're seeing as we're doing something here that is, that is, that we have a problem in our desk and at the end of the day what we're trying to do here is actually try to optimize the book for RWA purposes. And, and I'm going to, and since we coordinating this with the investment bank, I want to coordinate whatever we need to do in the book also with the investment bank and not do it outside. Because I have a feeling that we have, you know, something to do here. And that's what I, I want to make sure that the traders know. That we cannot, I don't want to battle it outside when we have something at the end of the day. It, it should be

done inside the company.

Mr. Pinto: Yeah but that, that, Javier, I, I don't understand how that one, that, from either of

two things. The, the externalization is something that we, we decide that we will do  $% \left\{ \left( 1\right) \right\} =\left\{ \left( 1\right) \right$ 

together.

Mr. Martin-Artajo: Yeah.

Mr. Pinto: And that is happening. The day to day trading, which it looks to be your concern.

Mr. Martin-Artajo: Yeah.

Mr. Pinto: That someone is trading against you, knowing your position, is something that I will

be extremely surprised that is going on, but we'll take a look and see if that is

coming up and that's it.

 $\textbf{Mr. Martin-Artajo:} \quad \textbf{Ok, thank you. Thank you for that, Daniel. Thank you for that.}$ 

Mr. Pinto: And if you could, so how much do you think is damage?

Mr. Martin-Artajo: It's a few basis points, but it's in a large position so that's the issue.

Mr. Pinto: So it's not many millions of dollars?

Mr. Martin-Artajo: I don't know like, maybe 250?

Mr. Pinto:

Two hundred and fifty million dollars?

Mr. Martin-Artajo: Yeah.

Mr. Pinto:

Ok. And you think that the fact that we marked the book that way, so we are benefitting with that amount and you are having a loss of that amount?

Mr. Martin-Artajo: Well, I, I just, I'm just concerned that the bid/offer spread is wide, and I don't know where the, the prices are when we trade. That's basically what it is, really.

Mr. Pinto:

Ok, so then, then, I think that we need to get Jean Francois to take a look of the marks and see if there is anything that is being done inappropriate. What I was telling Achilles is that we haven't, we haven't had recently, any substantial, how do you call, actually I forgot the name, discrepancies in the valuations with clients, or my market disputes.

Mr. Martin-Artajo: Ok.

Mr. Pinto:

So if we would have something of that nature, we would have substantial market disputes. But in any case, so I'll take a look, and then we'll take it from there.

Mr. Macris:

Can I, just, I want to, like, you know, comment, you know, Daniel, like on a couple of things. Like you know, just to put, like, you know, here, like, in retrospective, you know on these things. On the externalization that's like a long-term thing, you know, we are working together, nothing is going to change. This is not of the moment, right? We are on board. Second, on the issue like, you know, like you know, coordinating our activities to optimize, like you know, our individual RWA and capital and overall the firm, that is also something, that you know, like the externalization, I want to, like you know, use, you know, Ashley and company and I've been, like you know, completely open, you know, in all aspects, you know with the guys that I want to work, you know to that solution and that is like a second point. What, like, has erupted, like you know, today, you know, is, like, you know, an issue of, like, you know, disfunctionality in the way that we making the market. You know, I personally do not know, or am saying or claiming or mentioned, like you know, to Ashley, that, like you know, this disfunctionality is, like you know, our fault, you know, the IB's fault, or somebody else's fault. I don't know. Do you understand? I know there is tension. Right? It can be only in our head. Now, if, veah?

Mr. Pinto:

One of the things, one of the things that I will do without mentioning anything that we have [indecipherable]. I will check with [indecipherable] to see if any CIO activities in mark, with some, let's see if they, if this is something that they even notice.

Mr. Macris:

Right. So, like you know, what, all I'm saying is like you know, here. So the nature, like you know, of the call that I was asked to do, had to do, like you know with the issue, you know, let's not, like you know, escalate. You know, this, you know, tension and needs, like, you know, complementary positions that we can settle administratively. Right? You know, let's do that as opposed to, you know, continuing, like you know, being visible JP by JP into the street. Like you know, doing things dysfunctional. Dysfunctional, I think, doesn't mean dike sinappropriate

things or, like, in the subject to disciplinary action. I don't know. I think that, like you know, Javier seems to be a little bit more convinced, like you know, the positions that, you know, that he has, like you know, they are known to the IB. And, like you know, the positions. [Speaking to Mr. Martin-Artajo] What is the system that you were telling me called?

Mr. Martin-Artajo: ICE.

Mr. Macris:

[Speaking to Mr. Pinto] ICE. That the, the thing that goes into ICE. You know, the dealers, you know, see. I don't know. You know what I'm saying? I have not investigated. I don't know. My thought it was not about the disciplinary things or punishing anybody. What I'm not saying, like you know—

Mr. Pinto:

No, Achilles, Achilles, Achilles? Sorry. That's, that's not right. Someone is acting wrong. So, I'm not going to accept any of the persons that work for me that don't, that don't operate with 100 percent integrity.

Mr. Macris:

Ok.

Daniels:

So, there is, there is an accusation. This is what it is. You may have, it may be right or wrong. Alright? Let's investigate and, and, and come to a conclusion.

Mr. Macris: G

Good.

Mr. Pinto:

If someone did something wrong, so there, there will be a consequence of it. Of course.

Mr. Macris:

All I'm saying to you is, like you know, that is not where my thought is, like you know, I'm happy that, like you know, that I opened to you what, like you know, Javier presents to me. Same thing, together from the same time, like you know, as I do, because I asked him to compile it and to put it down, because I understand the seriousness of this thing. It's not where my head is. Do you understand? Like, ok, we'll look at it, but, I understand, you know, that your approach is like, you know, on the up and up. I much appreciate it. You know, the, the point of this call that I was asked to do here, you know, and you people involved like Irv does not know the book, and, you know, whatever, Ashley, on the outside of the airplane, obviously I don't operate this way, as you know, for many years. You know, it is, like you know, the issue, there is, like, you know, something that will play in the public arena. Right? You know, for whatever reason, you know, let's sort it out. So I think that it's not —

Mr. Pinto:

But, but, ah, yeah but to think, to think, that someone from us, or Olivier, or anyone else went and openly in the market, talked about your positions, really? I would be extremely surprised.

Mr. Macris:

Ok.

Yeah.

Mr. Pinto:

That the market knows that, what your positions are, that may be, because you bought tons of it.

Mr. Macris:

Mr. Pinto: So then, so then, [indecipherable] for now. I mean, if you sold them back, there are

only three players in this space. So, it is very likely that people know what you have. But in any case, I think that we'll take a look and see what it is. If we did something

wrong -

Mr. Macris: Again, I, all, all I want to tell you, like, I think that is, that is great that you are doing

it, and I appreciate it. It is not, like you know, for me here, you know, I don't want to, like you know, represent to anybody, and I certainly did not represent this, you know, on the quid quo, where at, like with Irv and Ashley, that like you know, there is, like you know, something here with, you know, disciplinary, you know, actions.

You know, we're talking, like you know, if there is -

Mr. Pinto: Yeah, but Achilles, Achilles, you know that when -

Mr. Macris: Ok, but I choose to, to, have like what is important to me. I'm just stating it to you.

Right? You know, you --

Mr. Pinto: Yeah, I, I understand but, but, as I told you, things that that, when Ina goes and talks

to Hogan and the whole company, this, this is, it was really it, probably.

Mr. Macris: Yeah.

Mr. Pinto: Ok, thank you.

Mr. Macris: Alright, man. Take care. Ciao.

###

Drew, Ina <Ina.Drew@jpmorgan.com> From: Sent: Mon, 23 Apr 2012 11:04:41 GMT Goldman, Irvin J <irvin.j.goldman@jpmchase.com> To: Subject: Fw: Largest OTC Collateral Call Dispute Report plus Update on Collateral Disputes Reported to Supervisors From: Macris, Achilles O Sent: Monday, April 23, 2012 03:32 AM To: Drew, Ina Cc: Wilmot, John Subject: FW: Largest OTC Collateral Call Dispute Report plus Update on Collateral Disputes Reported to Supervisors From: Bates, Paul T Sent: 22 April 2012 13:32 To: Stephan, Keith; Macris, Achilles O; Martin-Artajo, Javier X Cc: Lewis, Phil; Enfield, Keith

Subject: Fw: Largest OTC Collateral Call Dispute Report plus Update on Collateral Disputes Reported to Supervisors Below is Fridays mail from the collateral team that raised the issue. It breaks out the overall disputes as at 18 April of \$515mm per cp (ABS mtm of these positions is approx. \$39bn difference is only 1.5% of this). Morgan stanley is the biggest dispute at \$117mm this is what triggered the collateral review. This is mostly tranches as it is on our bilateral trades and the majority of the index trades are facing ICE. The biggest difference by instrument is the Itraxx Series 9 10year 22-100 tranche which is approx \$95mm. Collateral disputes are not uncommon at the firm level. We do occasionally get collateral disputes, the bau process is for MO to check the bookings and tie out positions and for VCG to confirm the mark. MO have confirmed with the collateral team that the positions have been fully tied out with the counterparty other than a very small number of trades with an immaterial variance that have parameter breaks. Currently VCG are working on validating that the book is marked with in thresholds (focusing on the top 19 instrument differences which is about 90% of the total) and are looking to completing this tomorrow morning. The desk were given the break down on Friday as well. VCG will also look at any findings from their work as well. The collateral team also provided a time series which shows the overall difference growing through March to a approx. \$500mm at March month end. March month end was tested as satisfactory by VCG. Thanks Paul From: Lewis, Phil Sent: Friday, April 20, 2012 03:16 PM To: Bates, Paul T Subject: FW: Largest OTC Collateral Call Dispute Report plus Update on Collateral Disputes Reported to Supervisors

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

From: Wilmot, John

Sent: Friday, April 20, 2012 9:04 AM
To: Lewis, Phil
Subject: FW: Largest OTC Collateral Call Dispute Report plus Update on Collateral Disputes Reported to Supervisors

Phil – fyi. Rory seems to be working on this with the FO. I have alerted Ed as well.

John C, Wilmot | Chief Investment Office | 🖾 john.wilmot@iomorgan.com | 🖅 Work: (212) 834-5452 | 🛎 Cell: (917) 664-1890

From: Demo, Mark
Sent: Friday, April 20, 2012 9:01 AM
To: Wilmot, John
Cc: Morris, Andrew X; Miller, Charles R; Bjarnason, David; Hughes, Jason LDN
Subject: FW: Largest DTC Collateral Call Dispute Report plus Update on Collateral Disputes Reported to Supervisors

John -- I wanted to bring something to your attention. This is a weekly report that we in IB Collateral produce that reflects the 10 largest collateral disputes for the week. You should know that in our top 10 this week we have quite a few disputes that are largely driven by intri differences on CIO London trades. If I look at the total mtm differences across the CIO book facing the G-15 - the mtm difference totals over \$500MM.

I have included a break out of yesterday's mtm differences by G-15 firm for only the CIO London credit book. The numbers in the own column show our trade count facing the counterparty. The numbers in the Diff MTM column show the total mtm difference across the CIO London trades facing the counterparty indicated.

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We are in correspondence with your middle office (Rory O'Neil) who has taken our questions regarding these differences to your Front Office. We are awaiting a response. We are also doing mum difference based on product type and underlier which we will have a little later today.

I am working from home today - I can be reached at the same of you want to talk.

Mark Demo | 18 Collateral | J.P. Morgan | 383 Madison Avenue, 11th Floor, New York, NY 10179 | T: 212 522 5485 | mark.demo@ipmorgan.com

JPMC INTERNAL USE ONLY

From: Demo, Mark

Sent: Thursday, April 19, 2012 6:33 PM

To: Staley, Jes

Co: Zinke, Steinar X; Sankey, Brian; Eichenberger, Stephen; Cox, Andrew UK; Christ, Michäel; Eckstein, Peter C; Waller, Lawrence;

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Ambrecht, Mary R; Hanrahan, Kieran; Brough, Richard; Magnus, Arthur; Keating, Karen R.; Bessin, Jean-Francois X; King, Ian A; Bishop, Elizabeth W; Compton, Paul H; Zames, Matthew E; Masters, Blythe; Pinto, Daniel; Hernandez, Carlos M.; Ricci, Paul A.; IB Credit Risk Reporting; Scott, Nicola R; Robbins, Nigel; O'Rourke, Erin; PS Europe Collateral; Sims, Mark; Bruce, James A; Moores, Christopher D; Morris, Andrew X; Magalhaes, Augusto P; Miller, Charles R; Moffitt, Albert J; Clisz, Mark M; Poz, Thomas I; Rallan, Luke X; Lee, Louis TH; Winkelman, Amanda D; McDonagh, Daniel; Diaks, Marc X; Morzaria, Tushar R; Beneski, Beverly J; Gaunekar, Siddhi P; Thomey, William D; Robinson, Scott A; Willcox, Christopher P; Jhamna, Sanjay X; Vigneron, Olivier X; Munro Directs; Munro, Graeme; Rubenstein, Stuart; Leach, Mark; Rokkos, Angela; Nuttall, Kenneth E; Nandanar, Preeti H; Bogle, Andre A; Warnier, Daniel P; Boi, Simona; Dewson, Thomas X; Kane, Karoline; Healey, Gareth; Hurley, Jonathan X; Eichenberger, Stephen; Miller, Charles R

Subject: Largest OTC Collateral Call Dispute Report plus Update on Collateral Disputes Reported to Supervisors

Attached is this week's report detailing the 10 largest collateral call disputes on the OTC derivatives book. In order to reflect ongoing issues with some of the larger broker dealers, this report lists counterparts with which we are seeing consistent differences regardless of whether it is JPMC or the counterpart that is showing exposure.

The report also reflects updates on collateral disputes previously reported to Supervisors as well as those disputes tracking to be reported to Supervisors for April month end.

The RAG ratings in col O are defined as follows:

Red = a dispute meets the age, size and risk rating criteria set out in the grid below,

Amber = the dispute does not meet all the criteria on the grid

Green = either the dispute has been resolved since the date of the data cut for this report, or resolution is imminent.

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Mark Demo 212-622-5485

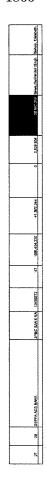
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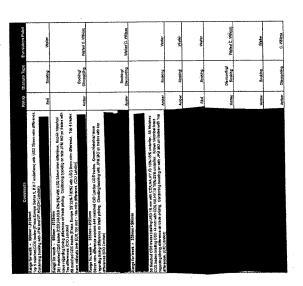
	MD Credit Exec	Christ, Mehaol	Christ, Mehasi	Ch65, Mehael	Christ, Michael	Bishop, Eleabeth	Eckster, Peter	Bishop, Elizabath	Christ, Michael	Bishop, Elizabeth
10 Largest OTC Collateral Disputes over 7 days old	Primary Credit Officer	155 St. St. of St. Halb, Kyde, Resmeth	122 000 000 General Catherine S Christ, Retail	(R)QNEGS3 Mr Ressen John A	24 517 770 Pdc. Thomas.	ANTERSON Mengen, Berry	Asychare Keiko	20 870 000 Manjan Barry	57.633.091 Pog.Thomas I	0)20000 Maryan,8am
fateral Disputes	Total Disputed Amount	155,27.8 npp	628/009/921	668,252,857	016,513.50	84,777,591	965.95.698	929 003 003	160,003.76	49,386,680
jest OTC Co	Agreed Amount	a	o	761,000,167	24,232,230	79,322,419	98,700,000	0	57,308,889	18,000,000
10 Lar	Counterpary Call	43,280,900	10,220,000		e,	0	000'092'84	000'005'02		0
	JPMC Collateral Cali	111,839,800	998,861	157,306,000	000,05(81)	163,500,000	6	000'000'09		56,200,000
	JPERC BITE	78,748,882	3,717,283,869	1	1,959,244,028			(1,394,095,162)		1,657,774,218
	Trade Count	545.54	287,08	50,867	46,338	5,947	16.121	28.450	14,911	-
	Confract #	718282	34803		2007 SWISS	14982	19242	10005189	19011481	995500
	Bank Branch Confract #	JPINC BANK NA	JPISC BANK 44A	JPMC BANK MA	JPMC BÄNK NA	JPINC SANK NA	JPMC BANK NA	JPMC BANK NA	JPMC BANK NA	OD \$ ONLY
	Legui Name	agregan Stanley Capita, Services LLC	CITIBANKNA	Banic of America, NA	ООС ОИИК САСНЯ НТРЯНАТКИАЬ	OREDIT SUISSE AG	NOMURA WTERNATIONAL PLC.	DREDT SUSSE NTERNATIONAL	vsin xarb shars namo (cs)	CREDIT GUISSE NTERNATIONAL
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JPM-CIO-PSI-H 0000146

# 1868

From: Goldman, Irvin J <irvin.j.goldman@jpmchase.com>

Sent: Thu, 03 May 2012 00:22:41 GMT

To:

Braunstein, Douglas <Douglas.Braunstein@jpmorgan.com>
Hogan, John J. <John.J.Hogan@jpmorgan.com>; Bacon, Ashley <Ashley.Bacon@jpmorgan.com> CC:

Subject: CSW 10%

On page four of the materials is a graph of csw 10% since beg. 2011 Please let me know if this satisfies your request.

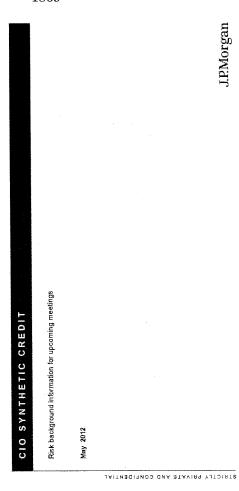
lrv

From: Goldman, Irvin J Sent: Tuesday, May 01, 2012 01:49 PM To: Hogan, John J.; Zubrow, Barry L Subject: CIO Risk Material- As requested

Enclosed is the background material you requested for the audit committee meeting. Let me know if you need anything

irv





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# Executive summary

- Limit structure for synthetic credit book is incorporated within the overall CIO MTM credit limits.
- Synthetic Credit VaR is large percentage of overall CIO VaR.
- Existing risk metrics and risk appetite were consistent with historical experience.
  - Recent experience more consistent with extreme tail scenario.
- Large stress loss reduction actions taken during Q1 increased substantially complex risks not captured by the current limit structure.
- Substantial notional and risk changes occurred within a very condensed time period in late Q1.
- Risk management initiated overall review of all CIO limits and governance policy in February 2012.

J.P.Morgan

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# Background

### CIO Synthetic Gredit in the context of the portfolio:

- Historically intended to provide positive P&L protection to large credit events.
- Partial offset to long credit exposures in the AFS portfolio.
- Risk protection strategy changes in 2012 from historical profile.

#### Risk profile evolution:

- Pre Q4 2011
  - The portfolio was net short risk to credit spreads, with upside on HY defaults, positive spread convexity to a sell-off /
  - in preparation for large expiry of HY short risk positions in Dec '11, and contemporaneous with increased long risk positions in Q3, the HY short risk position is increased,.

### ■ Q4 2011

- 30 Dec CSW10% sensitivity is maximum short at +\$152MM, HY default of AMR in Nov' 2011, with emerging default risk among other names (e.g. Kodak Rescap). High yield indices become less liquid.
- Q1 2012
  - To neutralize the net short risk position emanating from HY short risk positions, yet to retain upside on defaults, investment Grade long risk positions are increased (this increases the concentration risk to series 9 instruments in CDX and iTraxx, and increases sensitivity to the 'Compression' risk of relative value between IG and HY positions.
- Portfolio net CSW10% moves from +\$152MM to -\$152MM as at 30 March.
- Short Risk neutralization strategy creates substantially higher complex risk profiles.
  - Directional credit spreads
- Compression (investment grade vs. high yield, US and Europe)
- On-the-run/off-the-run basis
- Curve
- Tranche/Correlation
- Interest rates

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# Position Evolution 2012

	cides to i		

- 1. Spread +10%, spread +50% position turns from long protection to long risk
- 2. Significant increase in net notional position (not indicative of risk position)
- 3. Decreasing index equivalent during 1Q '12, but increase in spread +50% tells a different story

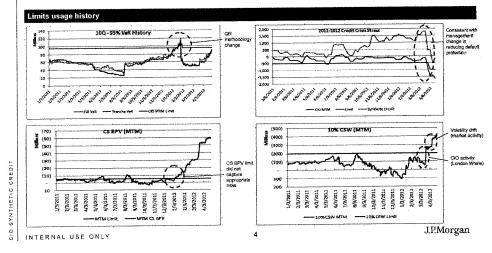
				100	rections for			4.544	
Risk Summary	30-Sep-11	91-Oct-11	30-Nov-11	30-0ec-11	31-Jan-12	29-Feb-12	30-Mar-12	19-Apr-12	27-Apr-12
P&L					I				
YTD	95	124	548	447	1 (190)	(1897)	(719)	(1,290)	
MID	15	29	274	109	(100)	(E9)	(350)	(252)	
	5 1 1		Court on the Court of March		<u> </u>		AND THE CONTRACTOR AND THE CONTRACTOR OF THE		
Rhtterrel (5) Pactered	42,698	38,813	42,181	50,397.	E1,184	94,611	158,944	158,136	162,620
Notional (S) like Eng	(39,912)	(12,907)	(\$1,184)	(75,717)	J (74.171)	(82,716)	(41,075)	(27,012)	(30,46)
Spread +10%	<b>4</b>	82	24	1578	(29)	(20)	(153)		<b>3</b> 987
Surped +60%	195	323	360	, 554	្រ (នារូវ)		(546)	(1,338)	, (Tab
Greedit Sitresee (LFS):	550	1,049	1,288	1,440	967	1,505	970	(140)	(1) (1) (2 <b>8</b> )
VeR 95	56	68	70	81	1 62	56	55	55	Č5

Market Bata	38-5ep-11	31-0ct-11	39-Hov-11	30-Dec-11	31-Jan-12	29-Feb-12	36-83a:-12	19-Apr-12	27-Apr-1.
TRAXX MN OTR 06Y	203	162	185	173	143	129	125	146	137
CDX IG OTR 05Y	145	122	128	120	102	94	91	100	94
CDX RY OTR 05Y	850	660	733	589	568	552	579	633	583
TRAXX XO OTR 05Y	838	659	756	755	618	569	613	686	643
TRAXX MIN S09 05Y	196	142	176	171	128	109	99	118	107
TRAXX NN S09 07Y	220	170	196	189	149	135	132	155	145
TRAXX MW S09 10Y	228	182	209	196	160	149	151	178	168.2
TRAXX MN 509 5/10	32	40	33	25	32	40	52	61	62
CDX IS S09 05Y	150	121	129	132	91	83	71	72	67
CDX KG 509 07Y	162	131	138	142	105	94	91	98 :	91
COX IG SOS 10Y	175	150	150	151	120	114	113	124	118.35
CDX (G S09 5/10	25	29	21	19	29	31	42	511	52
EUR FX	1.34	1.39	1.35	1.29	1,31	1.34	1.33	1.31	P.Morga

# Risk metrics and limits: CIO limits structure

- For MTM instruments, limits encompassed both the accounting designated investment portfolios, as well as hedge activity
   Limits were not set at the specific level of the Synthetic Credit Portfolio
- Limits in place include: CIO VaR

  - CIO stress
- Credit spread sensitivity (CS01)
   Exposure to 10% wider spreads (CSW10%)
   Limit excess during 10 in CS BPV was approved with a plan to revise the limit as cs01 comingled hy and IG cs01(not beta)
   Review of all ClO limits and governance initiated in February 2012



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# Corporate risk appetite

- Corporate Risk Appetite: "No quarterly loss greater than (\$2.28) (\$1.58) Corp. ex PE; (\$750mm) PE; \$0 CIO*
- CIO contribution to corporate:
- CIO stress limit on MTM set at \$500mm, consistent with historically delivered performance
   Recent change in MTM stress limit to \$1.08 driven only by inclusion of preferred stock investments

  - Stress performance of MTM activities not expected to breach risk appetite
- Actual P/L driven by a series of idiosyncratic tail risks
- VaR, stress, P/L experience did not foretell relative value dislocations
- Focus of risk metrics was performance of synthetic credit in credit deterioration scenario

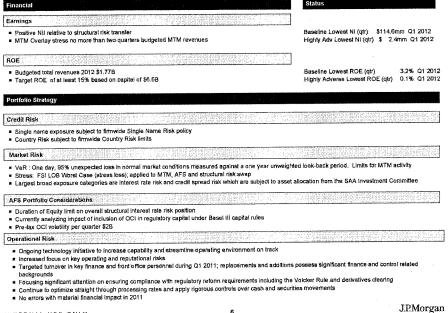
	1012	4Q11	3011	2Q11	1011	4Q10	3010	2010	1010	4Q09	30,09	2009	10,09
As reported in the EPR Supplem	ent (\$mr	n)											
rincipal transactions	\$ 113	\$ 324	\$ (933)	\$ 745	\$ 1,298	\$ 587	\$ 1,143	\$ (69)	\$ .547	\$ 715	\$ 1,109	\$ 1,243	\$(1,493)
Total private equity gains/(losses)	328	(149)	(440)	816	727	387	750	75	136	273	155	(20)	(462)
Securities gains	449	54	607	837	102	1,199	99	990	610	378	181	366	214
Net interest income	16	245	8	218	34	(131)	371	747	1,076	978	1,031	865	989
VITM VaR 95%	67	69	48	.51	60	49	53	72	70	78	99	111	121
MTM Revenues for CIO & CRP (	imm)												
OO E # 4 - 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	(255)	329	(582)		376	192	236	(207)	329	456	965	1,321	(292)
CRP	47	4	(27)	(33)	85	30	93	49	28	139	41	87	(520)
Total CIO & CRP	(208)	333	(609)	98	461	221	329	(158)	356	595	1,026	1,408	(811)
Synthetic Credit	(532)	367	56	m \\mathre	28		- 1 - 7 v	akstę 🙀	134	218	537	390	= (187)
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			19 (19 )61	無為特殊	scare drov	END I					1927.5	Synthetic	Codit

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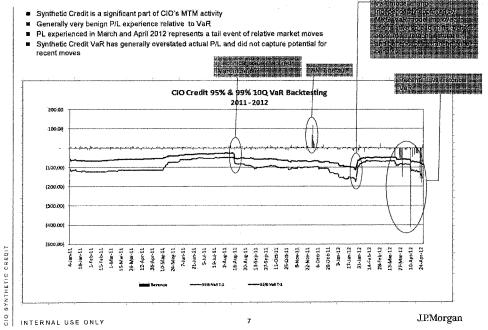
# CIO risk appetite

DRPC January 2012



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# CIO Synthetic Credit and risk appetite



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# Capital Metrics History

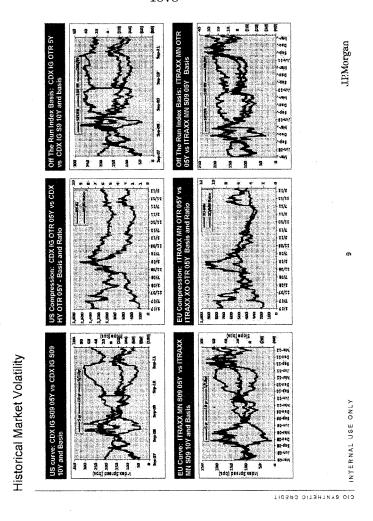
- RWA measurement model for credit derivatives under development for implementation with Basel III
- Firm is managing to Basel III measures, though regulators do not yet require it
- Managing to the model and model developments showed promise as total RWA reduced during December and January
- From late January through February model output was halted due to technology issues
  - Portfolio managers attempted to estimate capital based on VaR output
  - VáR however tied to much more "normal" (1 in 20 day) part of the distribution
- Capital was increasing but QR could not provide information for 5 weeks.

Synthetic Credit RWA	Var	StressVar	CRM	IRC	Total.		Synthetic Credit RWA
Merch 11	4,256	12,384	37,967	n/a	54,608	100,00	
May 11	3,737	10,836	36,515	n/a	51,087	30,00	
June'11	2,119	5,917	41,909	n/a	49,945		
July'11	1,173	5,376	41,515	n/a	48,063	60,00	
August '11	2,070	17,364	57,428	n/a	76,863	40,00	0
September '11	4,277	12,275	78,301	n/a	94,853		
October '11	4,498	10,458	76,353	n/a	91,308	20,00	•
November 11	4,392	11,487	73,485	n/a	89,365		
December 11	5,431	17,558	18,274	n/a	41,263		and and and and and the
January 12	4,435	11,898	22,007	n/a	38,340	h.   '	k h 4 h h . k h 0 4
February 12	2,372	8,812	55,921	n/a	67,105	$\mathcal{M}$	Total
March 12	2,942	12,059	25,600	43,700	84,301	\	
		<u> </u>				. /	
						\	
						QR based	
						methodology changes	

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# Risk Policy

# New Business Initiative Approval Chief Investment Office

Updated 07/17/2006

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Policy Statements	٠٠٠٠٠٠٠
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#### Rationale

This policy was originally approved by Chief Investment Office's Risk Committee on May 5, 2005 and was effective as of that date. It has been developed in accordance with the Firm-wide policy New Business Initiative Approval (NBIA), which requires each line of business to establish an NBIA policy following certain guiding principles for risk control, and approval of that policy by the LOB's Risk Committee.

## **Changes from Previous Version**

- The Firm-wide oversight process has been discontinued. As a result, the new Firm-wide NBIA policy shifts responsibility for determining the appropriate level of due diligence and sign-off required for all new products or initiatives to the lines of business.
- For CIO, the role of oversight, formerly performed by the Firm-wide new product group, will shift to the CIO Risk Committee. Individual regions or business lines will continue to sponsor new initiatives and manage the NBIA process, including co-ordination with all groups requiring sign-off.
- All NBIAs should be submitted to the CIO Risk Committee for concurrence prior to commencing the formal sign-off process.

05/13/2006 Updated: 07/17/2006 Policy No.: 01.00.04.28
Risk Governance
Chief Investment Office (CIO): Structural Interest Rate Risk Management - all regions, MSR (Mortgåge Servicing Rights) hedging activities, FX hedging activities; Tibs policy may be updated at a later date for the inclusion of COLI/BOLI, Pension & Retirement Plan and other CIO activities.

# Key Points

- This policy establishes guidelines for CIO New Business Initiative Activity (NBIA) approval, replacing New Product Approval (NPA) guidelines.
- Establishes minimum requirements for sponsorship of NBIA and the required
- Mandates Regional Business Head sponsorship of NBIA and documentation of all new business initiatives prior to inclusion in CIO authorized instrument
- Shifts oversight role for new initiatives to CIO Risk Committee from centralized corporate group (now disbanded). Requires submission of NBIA to CIO Risk Committee prior to its launch.

### **Policy Statements**

### 1. Definition

A New Business Initiative Approval (NBIA) is the introduction of a new or changed product, service or activity. The materiality of a change is a determining factor in identifying the appropriate risk control procedure to be followed. In a broad sense, new initiatives include the following:

- A new product to a region or business line with CIO. A significant change to an existing product or business activity that significantly alters the risk managed by CIO.
- alters the risk managed by Lto.

  Introduction of a product or activity in a new location.

  A new product or activity requiring significant change to systems, operations or middle office infrastructure to process. Revival of an existing product or activity that has been dormant for a significant
- period of time.

### 2. Sponsorship

Each NBI should be sponsored by a regional or business head (direct reports). The sponsor is responsible for proposing an NBI to the CIO Risk Committee prior to its launch. The proposal should be in the form of a business case analysis and include, where appropriate, the following information:

- Purpose (e.g. required to hedge incremental risk). Cost estimate for systems or processing. Incremental return or financial P&L estimate.

- Person responsible for managing process (e.g. business management/CFO representative).
- Associated infrastructure (systems, legal entities, etc.). Market risk, credit risk, finance, technology, etc.

NBIA, Chief Investment Office

# 1881

#### 3. Process

The NBIA approval process should include at a minimum:

- Regional or business unit head (direct report).
- Market Risk Management. Middle Office.
- Middle Office.

  Operations and technology representative responsible for processing. Regional CIO CFO/BM representative.

- Audit. Credit risk, finance, etc.

The sponsor and/or associated Business Manager is responsible for hosting an introductory presentation to all designated signatories at initiation of an NBIA proposal. It should comprise a clear business rationale, overview of the product, proposed support infrastructure and outline any known issues. The forum should also offer signatories a chance to pitch initial questions or raise concerns/issues that may need resolution prior to launch.

#### 4. Due Diligence

The specific level of due diligence required for each new product or initiative will be determined by the product sponsor and reviewed, where appropriate with the CIO Risk Committee. In addition to the minimum requirements, the review should include, as appropriate, other risk control areas such as legal, compliance, credit, liquidity management, or other risk functions.

The Business Manager (or sponsor) should maintain a master copy of the NBIA document and ensure it is kept updated. Approvers should submit comments, recommendations and conditions for sign-off to the Business Manager for inclusion in the master copy.

### 5. Sign-off

If an NBIA cuts across two or more locations where coverage personnel differ, the signatories should ensure approval is sought from all additional interested parties before offering an official sign-off on behalf of their corporate function. Approvals must be received in written email format from each and all designated signatories.

# 6. Other Considerations

- A post-implementation review should be done where appropriate to evaluate whether or not the original process assumptions were correct and whether or not the risk controls are performing as intended and that the activity volume is not taxing the infrastructure.

  In the event an NBI-driven transaction is not executed within 1 year of sign-
- off, the NBIA should be re-circulated for re-validation.
  Records of all NBI approvals should be maintained within the sponsoring
- location.

NBIA, Chief Investment Office

# 1882

## Regulatory Requirements

The NBIA policy is a key control for Sarbanes-Oxley. Documentation of an initiative definition, controls, how appropriate risk area reviewers were determined and actual risk area approvals are to be archived for seven years.

Interagency statements and individual statements regarding new initiative due diligence are regularly distributed by regulators. As an example, guidance as to the process to be followed to prudently manage the risks associated with new, expanded or modified bank products and services was distributed by the OCC on May 10, 2004.

OCC Bulletin 2004-20, Risk Management of New, Expanded, or Modified Bank Products and Services: Risk Management Process is found at http://www.occ.treas.gov/2004/May.htm.

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NBIA, Chief Investment Office

JPM-CIO-PSI-H 0001145

CIO

PAGE 01/30

## Chief Investment Office New Business Initiative Approval Executive Summary

Name of Initiative	Credit and Equity Capability
Portfolio(s)/Region(s)	NA/ EMEA
Initiative Spensor	Achilles Macris, Andy Panzures
Initiative Approver	
Brief Initiative Description	CIO needs broad product capability/expertise to dynamically allocate capital and invest across asset classes, as well as to effectively manage residual exposures created by the Firm's operating businesses. The key areas where CIO needs to initially build out its product capability are in Credit & Equities.
Economic Rational for	
Proceeding	Credit
, , , , , , , , , , , , , , , , , , ,	The Firm has Jarge cyclical exposure to credit, which is the single largest risk concentration from the operating businesses. Credit exposure and capital are increasingly fungible (Bosel II). Clob to add credit capabilities to manage macro overlay programs similar to interest rates, mortgages, and foreign exchange.
	Equity:
	Provides CIO with espablily to opportunistically allocate capital to equifics to:
	Refine and target existing macro views. Complement ClO's existing product capability in constructing macro hedges over the economic cycle.
Key Changes From Current Activity	Credit:
	CIO currently has very limited credit capability, mainly being confined to yield enhancement strategies. This initiative will provide the platform to build CIO's capability in order to allow CIO to manage corporate credit exposures and diversify its asset classes.
	Equity:
	CIO currently trades exchange traded equity index products with must of the current activity being flowed in Asia. The expanded product set will allow CIO greater capability in targeting sectors and indices across regions.
-	Systems:
	CIO will be using the PYRAMID infrastructure and booking model for both credit & equities, which although well established within the Firm is new to CIO.
Changes to Operational	CIO will rely on the Equity Derivatives Group (EDG) support model. This
Processes	1 GO will say on the Edinish Detrantives Group (EDO) support fooder. This

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	will be determined and governed by a Service Level Agreement. CiO will retain ownership of balance sheet substantiation.
Key Risk Issues	CIO will be reliant upon the EDG middle office processing and confirmation activity. This will be addressed via SLA between CIO and EDG support.
Risk Rating (1, 2 or 3)	2 - Medium  New products and systems to CIO, but not to the Firm
Priority Rating (A, B or C)	A - High
Other Significant Information	
Target Launch Date	
Date Authorized to Proceed with Development	

Guidance:
Initiative Approver: authorizes initiative development, agrees the initiative Jaunch and prioritizes initiatives for development. The initiative approver should be a direct report of the CIO.
Initiative Sponsor: the Sponsor should typically be a Portfolio Manager.

- Risk Rating is based on incremental risk and materiality of risk change:

  1.—High Risk.—significant incremental risk—new business for the axes, significant residual risk after risk management, manually intensive environment, considerable legal exposure, cross border issues, significant effort for Regulator approval, infrastructure under stress, major investment of capital, significant balances sheet implicated on 2.—Medium Risk—moderate incremental risk—multiple risk control areas are affected requiring cross discussion about the risks and operational considerations.

  3.—Low Risk.—Hile incremental risk—implementation of a vanilla initiative requiring the involvement of several risk control areas where only minor concesses are anticipated.

# JPMorganChase 🖨

Chief Investment Office New Business Initiative Approval Proposal

Credit & Equity Capability

Initiative Sponsor	Achilles Macris,
Key Contact	Andy Panzures Roger Kibble-White,
Rey Consict	Alison Giovannetti.
	Brandon Konigsberg,
	Bonnie Kindler, Jason Hughes
	E
Authorization to Develop Received	
Target Launch Date	

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CIO

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- 7. Finance Regulatory Capital
- 8. Finance Controls
- 9. T&O Technology
- 10. T&O Operations
- 11. Tax
- 12. Legal
- 13. Compliance
- 14. Funding
- 15. Audit

Appendix 1: CFTC Speculative Position Limits

Appendix 2: Non-Statistical Limits

Appendix 3: System Architecture

Appendix 4: Equity Sector Index Futures

# 1. Proposal Summary

Name of Initiative	Credit and Equity Capability
Portfolio(s)/Regions(s)	NA/ EMPA
Initiative Sponsor	Achilles Macris, Andy Panzures
Initiative Approver	7-
Brief Initiative Description	CIO needs broad product capability/expertise to dynamically allocate capital and invest across associatases, as well as to effectively manage residual exposures created by the Firm's operating businesses. The key areas where CIO needs to build out its product capability are in Credit & Equities.
Economic rationals for proceeding	Credit
•	The Firm has large cyclical exposure to credit, which is the single largest fisk concentration from the operating businesses. Credit exposure and capital are increasingly fungible (Basel II). CIG to add credit capabilities to unsage moreo overlay programs similar to interest rates, mortgages, and foreign exchange.
	Equity:
	Provides CIO with capability to opportunistically allocate capital to equities to:
	Refine and target existing macro views.  Complement CIO's existing product capability in constructing macro hedges over the economic cycle.
Key changes from current activity	Credit:
	CIO currently has very limited credit capability, mainly being confined to yield enhancement strategies. This initiative will provide the platform to build CIO's capability in order to allow CIO to manage corporate properties and diversify its asset classes.
	Equity:
	CIO currently trades exchange traded equity index products with most of the current activity being focused in Asia. The expanded product set will allow CIO greater capability in targeting sectors and indices.
	Systems:
	GO will be using the PYRAMID infrastructure and booking model which although well established within the Furn's new to CIO.
Key Risk issues	CIO will be reliant upon the EDG middle office processing an confirmation activity. This will be addressed via SLA between CIO an

	EDG support.
Risk Rating (1, 2 or 3)	2 - Medham
	New products and systems to CIO, but not to the Firm
Priority Rating (A, B or C)	A - High
Processing Location	
Main systems impacted	STS, PYRAMID
Other LOB's or Legal Entities	Bank and Whitefriars Inc.
Impacted	,
Operational impact (include anticipated volumes and key	Anticipated Monthy Vois
capacity metrics)	Credit Indices: JTraxt, CDX etc
Other significant information	
Regulatory approvals required	No
Balance Sheet usage	
Other Policies impacted	
Additional Headcount Required	4 traders - 2 in EMEA, 2 in New York
	2 FTE cost allocation from Equity Derivatives group
	2 CIO Middle Office FTE, t in EMEA, 1 in New York
Date authorized to proceed with	
development	
Target Launch Date	Late April
Key Contact for questions	Roger Kibble-White, Alison Giovannetti, Brandon Konigsberg, Bonnie Kindler, Jason Hughes
Person responsible for Post Implementation Review	

# 2. Working Group and Approvers

Stakeholder Area	Working Group Member(s)	Signature	Agreed Completion Date	Date Approved
Business Sponsorship				
Global Head	ina Drow			
Global CFD	Joe Bonocore			
Portfolio Maneger (Initiative Sponsor)	Achilles Macris, Andy Panzures			
Regional CFO	Brandon Konigsberg, Roger Kibble-White, Colvis Lee			
T&O Manager	Alison Giovannetti, Phil Lewis			
Risk Control Areas				
Market Risk, Credit Risk & VCG	Bob Rupp, Fiona Longmuir			
Finance - Accounting	Mark Allen, Allister Jeffrey, David Alexander			
Regulatory Capital	Keith Enfield/Mark Weber			
Finance - Controls	Elliot Honeyfield, Nancy Dennery			
T&O - Technology	Joe Colman, Nick Wood			
T&O - Operations	Alison Ginvannetti, Bonnie Kindler, Tom Mauro			
Tax	Mark Prediani			
Legal	Carolyn Monroe-Koatz			
Compliance	Coiln Harrison, Bob Cole			
Funding	Frederic Mouchel			
Audit	Bill McManus, Sally Russell			
Other as appropriate				1
Senior Country Officer				1
Legal Entity CFO/SFO	Allister Jeffrey			İ

^{*}Sign-Offs are contained in a separate file distributed with this document

# Initiative Overview

i. Initiative description, economic justification, strategic fit, growth forecast, expected valume, capacity limits II. Business Rationale including market apportunities and ricks

Please see Executive Summary.

Proposed initial product list:

#### Credit:

Credit Indices: iTraxx, CDX etc. – see below for indices
Credit default swaps (not on corporate names) – see below for indices
Options on Credit Indices- see below for indices.
For EMEA, Options on Credit indices are dependent upon the build out of credit products within
Pyranid Equities, scheduled for May/Inne 2006, and should not be trutled until this
implementation is complete.

Europe: Itraxx, USA: CDX, Japan: Itraxx

#### Сотпропени:

- Xover 5 yr
   Hivel 5 yr
   Main IG 5 yr
   Main IG 10yr
   Financial Sub Index 5 yr
   Financial Sub Index 10 yr

## Options on:

- Хочег 5 уг
   Нічої 5 уг
   Маіл IG 5 уг

- Exchange traded index futures (already an approved product) see below for indices
   Options (Exchange traded and OTC) on exchange traded futures see below for indices
   OTC total return sweps on indices/sectors see below for indices
   Exchange traded sectorial products iShares and SPDRs (for list of Exchanges and contracts Appendix 4).
   Variance/volatility Swaps
   Outperformance/Swaps

# Indices:

- S&P
   Eurostoxx
   FTSE
   CAC40
   Nasdaq

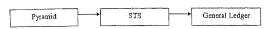
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- Dax
  Thex 35
  MIB Index
  CME-USD denominated Nikkei
  CME-Yen denominated Nikkei
  Simex Nikkei
  Simex Nikkei USD denominated
  MSCI TAJWAN INDEX
  TFE Tajwan lodex denominated in TWD
  Stoxx50 Indicx
  Swiss Market Index
  Hang Song
  OMLX PTH6 Index
  SRP TSE60 Montreal Exchange
  FTSE Mid 250
  TecDAX
  Bovespa
  Mexico BOLSA
  Kospi

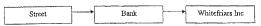
# Trade & Legal Entity Flow

i. Include an end to end product flow diagram including external resources utilized



- Client facing trade captured in Pyramid
  Trade settled through STS
  Confirmation generated through XDG a subset of STS
  Pyramid auto generates a back to back trade between the Bank and IP Morgan Whitefrians Inc.
  Pyramid auto feeds IPMCB and IP Morgan Whitefriars Inc General Ledger
  Client risk recorded in JMPCB
  Trade risk recorded in JP Morgan Whitefriars Inc

ii. List legal entities impacted



- London Branch (trades back-to-back through the branch)
  NY Branch (trades back-to-back through the branch)
  JP Morgan Whitefriars Inc. (ultimate repository of the risk)

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# Market Risk/Valuation Control/Credit Risk

#### Market Risk

The initial product slate is:

Credit (\$5imm VaR limit):

- Credit Indicies
- Credit default swaps
- Options on credit indices

### Equity (\$10mm VaR limit):

- Exchange traded index futures (already an approved product)
   Options (inc OTC) on exchange traded futures (already an approved product)
   OTC total return swaps on indices/sectors
   Exchange traded funds

The Business has, to date, operated under a regional limits infrastructure therefore it may be necessary to realign the hierarchy to be more reflective of a global risk framework by asset class. This will require developmental work from the VARS MO and the risk reporting teams.

Equifica trading:

From an Equities perspective the existing VaR limits will need to be supplemented with additional non-traditiotal measures such as delta and vega to ensure concentration levels are kept in check and to more appropriately monitor the options-related risk. (See Appendix 2)

Positions will need to be booked into Pyramid (Equities version) and VARS feeds established to ensure appropriate risk capture — this should exactly match the set-up for Institutional Equities. VaII is calculated within Pyramid and the pell vectors are fed to VARS for consolidation with the rest of the business's portfolios. Risk is fed from Prada (Pyramid's front-end risk tool) to VARS on "underlying" basis (e.g. FTSB, DAX, Eurostoxx) as oppose to individual trades therefore Prada will need to be used to view trade details and observe relative value sector strategies. MVAR will also require access to Prada/Atlas.

<u>Credit tradings:</u>
Credit trading is essentially a new business and therefore requires a new limits infrastructure comprising
both VAR and non-statistical measures such as 10% credit spread widening, cabpy or default exposure.

Ideally CIO should clone the Credit Rybrids version of Pyramid and utilize the "Trevor" database to ensure;

(i) Index exposures are fied on a decomposed name-by-name basis for more accurate VaR computation and to feed the Single Name Position Risk monitoring process.

(ii) options can be appropriately handled (the Equities version does not support credit options)

CIO will also need to clone the separate PCM feed from Trevor for regulatory capital purposes.

It is understood that owing to systems constraints the Credit Hybrids functionality within Pyramid will not be available for use by CIO until May/lune 2006. CIO should therefore refrain from undertusking credit options trading until this time. Since the Equities version of Pyramid is the only platform available then there will be a number of short-comings, namely:
a) no decomposed index feed
b) no SNPR feed
c) reliance on the Pyramid model for computing VaR (in which credit data is understood to be dubious)
CIO will need to additionally clone the PCM feed for regulatory capital purposes and should ensure that the relevant credit products are set up accordingly.

Given the deficiencies of the Pyramid Equities version for the credit trading activity, MVAR would insist that in the event the required systems development does not occur by end of H1'06 new activities must stop and the ClO Risk Committee must evaluate how to proceed.

CIO

### Valuation Control

CIO is not a market maker and uses the Investment Bank's risk and valuation systems to transact its products. As such CIO is a price taker using prices and valuation inputs controlled and determined by the market making businesses of the bank. CIO's Valuation Control Group coordinator will ensure that where pricing adjustments are identified from the month end price test process for market making groups in the Investment Bank, that where CIO hold the same positions the adjustments are also discussed with/applied to CIO.

#### Credit trading:

The only candidates for reserves are credit spread options which may qualify for Unobservable Parameter Reserves depending on the size and type of positions held. Index CDSs tend not to incur reserves, however, if the business were to venture into single name space theses positions would qualify for Price Discovery, Recovery Rate and/or Concentration reserves.

### Finance - Accounting

The instruments in the initial product slate are derivatives and as such must be marked-to-market. These items will be treated as trading instruments. ETF's will also be treated as trading instruments.

II. Consider Accounting Policy review and regulatory reporting implications

Regulatory considerations are considered in Section 8 below.

iii. Will the accounting for the new products be performed manually or will it be automated?

The accounting will be automated using the ACE accounting engine to generate entries.

# Finance - Regulatory Capital

IP Morgan Whitefriars Inc. has no standalone regulatory capital requirements. Positions in JP Morgan Whitefriars Inc. will be subject to the Firm's regulatory capital requirements:

Has this product been reviewed by regulatory reporting (US and non-US) to ensure that it will be reported to accordance with regulatory reporting requirements. List any regulatory reporting requirements (US and non-US) in relation to the new product and provide a description of any requirements that differ from GAAP.

This product been reviewed by regulatory reporting (US and non-US) to ensure that it will be reported in accordance with regulatory reporting requirements

For Rishboard capital purposes, will lifts product be booked under trading or banking book rules and has legal and regulatory reporting reviewed the proposed treatment.

For Risk-based capital purposes, this product will be booked under trading book rules and legal and regulatory reporting reviewed the proposed treatment.

iii. Will this product feed into appropriate market, counterparty eradit and specific risk systems (if so, please describe the feed nosses, internal model, tisk and backing systems, and appropriate contents in technology and middle office)? If not, have procedures and controls been put in place to report in annually and who will be the contact person for manual reporting?

CIO

The following approaches will be used to feed the Firm's specific risk systems:

Credit: CIO will leverage the Equity Derivatives Group's PYRAMID infrastructure. CIO will use the infrastructure to feed the Firm's PCM model which will be used to calculate specific risk on the credit products with the exception of Credit Options which will be calculated using the following

For option positions, long or short, the risk weighted amount is the morket value of the effective notional amount of the underlying instrument or index multiplied by the options delta. These are required to be reported on a namual template. For credit options which are NOT price based, we may not be able use a option delta upproach (we may need to use a notional x %4 approach).

Equity: CIO will leverage the Equity Derivatives Group's PYRAMID infrastructure. The Firm has permission to use its internally calculated VaR for vanilla equity cash and derivative products subject to the application of a one time add-on. In order to utilize this approval CIO will book equity products in a portfolio distinct to other instruments. The add-on is applied as follows:

RWA from VAR = VAR*SQRT(10)*3*12.5

RWA for Specific Risk = VAR*SQRT(10)*12.5

Non-vanilla equity products (not in the scope of this approval) must be reported via manual

Varieties Volumes Sunns
The inchesial should be reported as the number of units multiplied by the contact tyrice or the notional specified within the confirmation in CCV. This mainter is divided by 2 for a varieties way.

The rational for this is as follows:

Variance 9wap

Variabne Swap

Pay Out = Units (CaStilke Vol) x (Net Vol2-Stilke Vel2)

if Act Vol = 0 than Pay Out = Units Stilke Vol 2 If Act Vol = 0 then Pay Out = Units Strike_VolVolatility Swaps

Pay Out = Units x (Act_Vol-Strike_Vol)

If Act Vol = 0 then Pay Out = Unit x Strike_Vol.

iv. Describe the nature of any collateral held in relation to this product

No specific collateral will be held against the proposed products, however derivative MTM collateralisation will be subject to normal Firm collateral group process.

Daes this product impact deposits and, if so, has this been communicated to regulatory reporting for purposes of calculating appropriate reserves.

This product does not impact deposits.

vi. Hes any impact to risk weighted assets been identified, evaluated and communicated to regulatory reporting, Are the appropriate risk weighted asset limits to place and been reviewed by the applicable CPO7.

CID

Given the use of approved models as detailed above, the impact to risk weighted assets is not deemed to be material and can be accommodated within CIO's existing limits.

vii. Has the methodology for calculating risk weighted assets for VAR and specific risk been communicated and approved by regulatory reporting & Market Risk Management? Is any regulatory approved or specific risk model development required for day product?

The methodology for calculating risk weighted assets for VAR and specific risk been communicated and approved by regulatory reporting. The models have been approved by the regulators and hence no specific regulatory opproval or specific risk model development is required for this product.

viii. If this product regulars risk fincinding general, specific and consist purply has the product been submitted to regulatory reporting to update the risk inventory 1817.

The product slate is part of the bank's existing approved products.

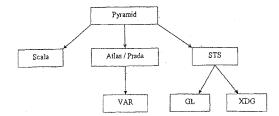
## Finance - Controls

- i. Consider changes to the control environment including process, control procedures and review (I Sarbanes Orley implications: ownership of new process templates, testing

The Credit and Equity business will ultimately reside in JP Morgan Whitefriars Inc. A new operational controls template will be created for SOX purposes specific to the Credit & Equity business and will address all key controls. Also, additional control steps will be added to the "CIO CFO" SOX template covering this new activity.

Discreet cost centers, SPN's and books are being established for CIO Europe and New York to support and segregate the activity.

T&O - Technology



- Trade captured in Pyramid
   PA. reported in Scala on T, price review on th1
   Real time risk in Alas
   End of day risk snapshpt in Prada
   Prada feeds VAR
   Trade settled in STS
   STS feeds GA. via ACE
   STS feeds XDG for confirmation tracking and matching

CIO's technology team will provide basic technology support for CIO use of Pyramid.

### 10. T&O - Operations

- Un operations areas imported with location and monager responsible, note key impact, singling experient, capacity concerns.
   Note monated procedures, pleas to outcomest, required external communication, climit reporting, client valuation, confirmations, etc.
   Describe the control processes implemented to manage operating risk?

### EMEA

CIO Front Office will capture trades in Pyramid.

CIO Middle Office will leverage the EDG Operations Groups.

Prior to trading SLA's and SOP's need to be agreed with EDG Operations to clarify the support model and cost base.

# CIO Middle Office

- Monitor Pyramid queues, highlight exceptions to the CIO FO
  Request new reference data requirements
  Close books end of day
  Run end of day reval, consuring Scola and VARS data is accurate
  Monitor MIS central depository, highlight breaks to FO
  Download Scala P/L reports joto excel
  Agree P/L with FO, adjust for end of day pricing errors

- Review confirm, nostro and trade breaks resolve differences
  Maintain adjustments in Scala
  Request FO P/L sign off
  Ensure SOX handshakes in place
  Reconcile P/L and Balance Sheet accounts in general ledger
  Reconcile P/R monthly
  Monthly substantiation and GLRS sign off

### EDG Operations

- IBOD to settle trades, report nostro breaks
   IBOD to confirm equity trades, report breaks
   Credit Markets to confirm credit trades, report breaks
- Set up reference data
  Report CIO exceptions in MIS central depository

### North America

CIO Front Office will capture trades in Pyramid.

CIO Middle Office will Jeverage the EDG Middle Office and Operations groups and the Credit Derivative Middle Office and Operations group.

Prior to Iteding SLA's and SOP's need to be agreed with EDG Middle Office and Operations and Credit Derivative Middle Office and Operations to clarify the support model and cost base

### CIO Middle Office

- Agree P/L with FO, adjust for end of day pricing errors
  Review confirm, nostro and trade breaks resolve differences
  Request FO P/L sign off
  Ensure SOX handshakes in place
  Reconcile PRF monthly
  Monthly substantiation and GLRS sign off

# Credit/Equity Middle Office

- Monitor Pyramid queues, highlight exceptions to the CIO FO
  Request new reference data requirements
  Close books end of day
  Run end of day reval, ensuring Scala and VARS data is accurate
  Monitor MIS central depository, highlight breaks to FO
  Download Scala PI. reports into excel
  Maintain adjustments in Scala
  Reconcile PIL and Balance Sheet accounts in general ledger

### EDG Operations

- JBOD to settle trades , report postro breaks
   IBOD to confirm equity trades , report breaks
   Credit Markets to confirm credit trades , report breaks
   Set tracefence data
   Report CIO exceptions in MIS central depository

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### 11. Tax

i. Jurisdiction considerations, withholding tax, YAT, income attribution

As the ultimate risk repository entity is different to the entity employing the risk managers, CIO will use the "hedge fund" model to attribute income back to the entity employing the risk managers from the ultimate risk repository entity (FIM Whitefirias Rio). Under the hedge fund model income is attributed from the risk repository entity to the entity employing the traders as follows:

Higher of 1) 25% of year to date not revenues; or 2) Fully loaded costs of risk managers plus 5%

This will be documented via a service level agreement.

ii. Tax issues e.g. tax advantaged transaction, tax shelter regulations

......

None.

iii. Do the we rules differ from accounting rules? If so, have the systems been set up to enplare the information needed for tax purposes?

No.

### 12. Legal

Regulation K is a Federal Reserve Board regulation which restricts offshore subsidiaries of US bank holding companies engaged in banking activities with respect to non-investment grade equity activity. IP Morgan Whitefriars Inc. is an indirect subsidiary of the Bank and hence subject to Regulation K.

Regulation K does not apply to derivative positions (unless equity is acquired as a hedge for a customer driven equity derivative activity in which case the net delta position may be taken – this clearly does not apply to CIO). Regulation K will affect CIO holding of Exchange Traded Funds (ETFs).

Below is a summary of the legal requirements applicable to ETFs in the Reg K entities.

1. During the Underwriting Period, which is for the 90 days after we acquire the ETF shares from the issuer:

No percentage limits
Dollar limit per fund is approximately \$990 million (i.e. 3% of the Bank's tier 1 capital).

2. After the Underwriting Period

Subject to the 19.9% voting shares limit.

- case by case review of each ETF prospectus to determine which ETF shares are voting and which are
- not; if there is a large redemption resulting in our exceeding the limit unintentionally, we would reduce our position as soon as practicable.

Subject to an overall 25% equity limit (the threshold for control of a fund is 25%).

Subject to the \$40 million dealing limit (\$25 million if held in an investment account). For purposes of calculating compliance with the \$40 million dealing limit, Reg K permits us to not long and short positions

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in the same security. However, a long position in the ETF shares cannot be netted against shorts on the underlying stocks that the ETF tracks. These would not be longs and shorts in the same security.

CIO

Regulation K does permit us to use our internal hedging models to net a stock index derivative against a basket of stocks specifically segregated as an offset to the stock index derivative. Such netting is subject to a 25% haircut (i.e. maximum long physical position of \$160 million) subject the derivative being hedged is a bank permissible, customer driven equity derivative transaction." (The Bank has systems in place to do full netting for bank permissible transactions but does not have a system to do netting subject to the 25% history.)

Since the Bank is not authorized to buy and sell ETF shares, the purchase and sale of ETF shares would not qualify for full netting.

Look through Requirement. If we have a "redemption unit" of ETFs we would have the right to convert that unit to shares in each of the underlying that the ETF tracks. (It may be that certain ETFs do not give us the right to convert in which case the discussion which follows would be inapplicable.) The right to convert the ETF shares into the underlying would count as "equity" in the underlying for purposes of the Reg K 40% of equity limit. Equity is defined in Reg K as including interests that are convertible to shares or other ownership rights in an organization.

If it is not feasible to do the look through every day, it would be reasonable to calculate the maximum percentage of each of the underlying which you could possibly obtain by redeeming all the EFF shares you could hold under your internal limits. You could then deduct those amounts permanently from the 40% of equity availability. This would enture that twe would never go over the 40% of equity limit.

CIO MO will pre-clear cash transactions for Reg K purposes with EDG Reg K monitoring team (contact Roberto Vivenzio).

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## 13. Compliance

As Whitefriars Inc is not permitted to face counterparties directly, all proposed trading activity should be intermediated through one of the regulated entities (PMCB or IPMSL) when trading with the market.

Exchange traded securities can be transacted through JPMSL (for Europe based traders) provided existing practices and procedures are applied and margin payments are made accordingly. OTC derivatives should be transacted by JPMCB with JPMSL acting as agent.

Proposed trading activity in exchange traded futures, options on such futures and other exchange traded products is subject to rules and regulations of the applicable exchanges and regulatory authorities (such as the Commodities Fourier Trading Commission in the US) in the relevant jurisdictions, including speculative position limits (Current applicable limits in US and Asia are attached in Appendix I). CIO will monitor its rading activity for compliance with all applicable limits—Positions held by other lines of business of the firm in the same legal entitles utilized by the CIO should not be aggregated for position limit purposes, provided there is no sharing of position information, common traders or direct common supervision between business groups (Comment: This is view from US, is it confirmed from F&O compliance for Asia?).

### 14. Funding

Funding will occur through the bank's standard model as IPM Whitefriars Inc. has TPSD.

#### 15 Andif

All Audit questions and queries have been answered and their major concern is that all Front Office and Middle Office staff receive the correct maining and that Middle Office document all control procedures.

As the NBIA is a Risk Rating 2 it does not require formal Audit sign-off

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# CIO New Business Initiative Approval Policy

# Post-Implementation Review

Section 1 - to be completed at the time of approval

Name of Initiative:	
Line of Business:	
Post Implementation Key	· ·
Contact:	
Launch Approval Date:	
First Transaction Date:	

Brief description of the approved initiative:

(copy from initiative summary)	

List any conditions associated with the approval, comment on open items and the timeframe for completion.

	Risk Review Group	Conditions raised during sign off	Comments
1			
-			

Section 2 - to be completed within 6 months of the activity going live

Address the following:		·
Is the initiative as described in the proposal when it	was approved?	
Is the initiative within the volumes and limits agree	d when approval was granted?	
Have there been any operational errors as a result o	f introducing this initialive?	
What economic value has been received and how d	oes that value compare to the initial projections?	
Have there been material operational changes that v	were or should be documented?	
Have there been material operational changes that v Other points of note	vere or should be documented?	
	vere or should be documented?  (Insert name)	

Send completed copy to LOB ORM, Regional Expeditor and Audit

CIO

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# Appendix 1: CFTC Speculative Position Limits

	Net of All Months	Net Single Month	Spot Month
Chicago Board of Trade(CBOT)			
Dow Jones Ind Avg (plus mini Dow Jones Ind Avg)	50,000		
Chicago Mercantile Exchange (CME)			
Nikkei 225	5,000		
S&P500 Index (plus mini S&P500)	20,000		
S&P400 Index (plus mini S&P400)	5,000		
Russell 2000 Index (plus mini Russell 2000 Index)	10,000		
NASDAQ 100 (plus mini NASDAQ 100)	10,000		
New York Board of Trade (NYBOT)			
Russell 1000 Index (plus mini Russell 1000 Index)	50,000 mini equivalents	50,000 mini equivalents	50,000 mini equivalents

# Asian Exchange Limits

TFE Taiwan Index denominated in TWD (TAJEX futures): position limit for institutions is gross 4000 (e.g. short May 1000 plus long lune 2000-3000). For IPMSL, the contract is exempted as 2 times of the standard institution limit valid for a year, i.e.currently 8000.

Hang Seng: net 10,000 long / short for all contract months combined. (Note: Hang Seng Index Futures and Hang Seng Index Options are all netted together to calculate the net 10,000 long / short. Regarding the HSI options, we need to use the delta value in the calculation).

Kospi: net 5,000 long/short for all contract months combined.

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Appendix 2: Non-Statistical Limits - DRAFT

Equity	Marine of Strategy (Str	***************************************	nonenceumon de la company	eronement.
			De chi voc	
Configura	Hoavette .			IIIAA KARAKA
ŲS	S&P	SPX	250	0.50
	DJIA	. **	125	0.00
	Nasdaq		125	0.00
Canada	S&P/TSX	SPTSX60	125	0.13
Brosil	Bovespa	BOY	50	0.00
Mexico	Mex Bolsa	MEXBOL	50	0.00
Euro	EuroStoxx50	SX5E	250	0.50
CAC	Cac40	CAC	125	0.25
DAX	Dax	DAX	250	0.50
Italy	S&P/MIB30	SPMIB	125	0.25
Norway	OBX	OBX	125	0.00
S Africa	FTSE/JSE 40	TOP40	50	0.00
Spain	Ibex 35	IBEX	125	0.00
Swiss	SMI	IMZ	125	0.13
UK	FTSE100	UKX	- 250	0.25
	S&P/ASX			
Austrolio	200	A\$51	50	0.13
China	H Shares	HSCE	125	0.13
HK	HangSeng.	HSI .	125	0.25
	Jakarta			
Indonesia	Comp	JCI	. 50	0.13
India	BSE Sensex	ZENZEX	50	0.00
Japan	Nikkei	NKY	250	0.50
	Topix	TPX	250	0.25
Korea.	Kospi .	KOSPI	125	0.50 .
	Kospł200	_	125	0.50
Maloysia	KL comp	KLCI.	50	0.13
NΖ	NZX 50	NZSE50FG	50	0.00
Philippines	PSEI	PCOMP	50	0.00
	Straits			
Sing	Times	172	50	0.13
Taiwan	TATEX	TWSE	125	0.25
Thoiland	SET 50	2E)	50	0.00
Total Gross			1.250	3.0
Total Net			500	1.5

Credit

10% Credit Sprend Widering \$2mm (Tot

\$2mm (Total) \$2mm (By Sub-Index e.g. itraxx main, itraxx hivel)

CSBPV

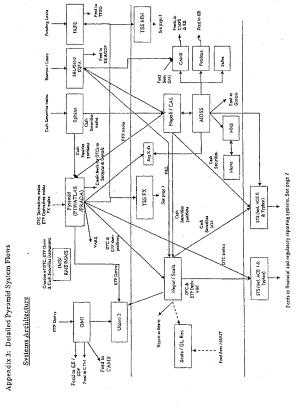
\$2mm (Total) \$2mm (By Sub-Index)

Vesa

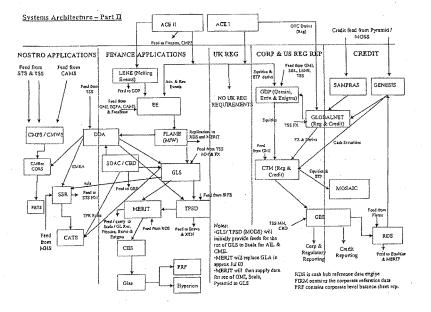
tha (Total - expressed in 0.1 bp b/c terms)

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05/22/2008 15:32 212834655B

CIO

# Appendix 4: Equity Sectorial Index Futures

region of the second	的方法的证明	330 3 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	PARTER 250	and the second s
NDU6 Index	US	USD	CME	NASDAQ 100 FUTURE Sep06
NQU6 Index	US	USD ;	CME	NASDA Q 100 E-MINI Sep06
M DU6 Index	us	USD :	CWE	MIDCAP 400 FUTR Sep06
RLU6 Index	US	USD	CME	RUSSELL 2000 FUTR Sep06
ROU6 Index	US	USD	NYF	RUSSELL 1000 FUT Sep06
SUU6 Index	US	USD	CME	S&P BARRA VALUE Sepué
SGU6 index	US	CZU	CME	S&P BARRA GROWTH Sepos
MVU6 Index	US	USD	KCB	VALUE UNE FUT Sep06
RSM6 Index	US	USD	CME	RUSS E-MINI 1000 Jun06
RRU6 Index	ŲS	USO :	CME	RUSSELL MINI FUT Sepo6
Q U6 Index	GB	EUR	LIF	FISE EUROTOP 100 Sep06
M UUS index	GB	EUR	LIF	MSCI EURO IX FUT Sep06
MPU6 Index	G-B	EUR	LIF	MSCIPAN EURO Sepos
FIM6 Index	GB	EUR	LIF	FTSEUROFIRST 80 JUNO6
EPM6 Index	GB	EUR ;	UF	FTSEUROFIRST 100 Juno6
MFM6 Index	DE	EUR	EUX	MIDAX INDEX FUT JUNGS
I U6 Index	G8	GBP	LIF	FISE 100 IDX FUT Sep06
Y U6 Index	G8	GBP	LIF	FTSE 250 MID LIF Sep06

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Credit & Equity NBIA Sign-off.txt

CIO & GFLM Alison C Giovannetti 20/04/2006 12:44

TO: Jason LDN Hughes/JPMCHASE@JPMCHASE, Roger X
Kibble-white/JPMCHASE@JPMCHASE
CF Subject: Re: Credit & Equity NBIA - sign off
This document contains a file attachment with a file size of 198.2 xB.

Signed off

Regards, Alison

Alison Giovannetti GDP : 8 325 8025 External : (020) 7325 8025

Corporate Reporting Business Advisory - Tel 212-834-9425 Cell 646-258-1114 Keith Enfield 20/04/2006 14:51

TO: Jason LDN Hughes/JPMCHASE@JPMCHASE cc: Roger X Kibble-white/JPMCHASE@JPMCHASE Subject: Re: Credit & Equity NBIA

I approve but I think you should make a note that non-vanilla equity products (if you ever have any) and credit swaptions (which you are planning on trading and are not currently approved for PCM) will need to be reported via the manual template.

Phil Lewis 21/04/2006 13:57

TO: Jason LDN Hughes/JPMCHASE@JPMCHASE
cc: Alison C Giovannetti/JPMCHASE@JPMCHASE,
thomas.j.mauro@jpmcraan.com@JPMCHASE
subject: Re: Credit & Equity NBIA
This document contains a file attachment with a file size of 198.2 KB. Jason - ok to sign-off.

As stated in the document, next step is to finalise the SLAs and SOPs regards Phil

David M Alexander 25/04/2006 14:11

To: Jason LDN Hughes/JPMCHASE@JPMCHASE cc: Roger X Kibble-white/JPMCHASE Subject: Re: Credit & Equity NBIA Page 1

Ciu

PHOE 25/38 .

Credit & Equity NBIA Sign-off.txt

3ason ~

You have my approval. I traded vms with Roger - all of these positions will be mtm in a trading book. Please revert back to me if any other types of positions are held beyond what is included in the NAIA that might warrant different acctg, I.e. Loans or non-marketable equity securities.

Nancy E. Dennery Chief Investment Office - Tel (212) 834 - 9485 Nancy E Dennery 25/04/2006 13:09

To: Jason LON Hughes/JPMCHASE@JPMCHASE cc: Roger X Kibble-white/JPMCHASE@JPMCHASE subject: Re: Fw: Credit & Equity NBIA This document contains a file attachment with a file size of 198.2 KB.

Yes, I have reviewed and sign off for the controls section.

Treasury - Tel +44 20 7777 0034 Frederic Mouchel 03/05/2006 09:56

To: Jason.LDN.Hughes@jpmorgan.com@jPMCHASE
cc:
Subject: Re: Credit & Equity NBIA
This document contains a file attachment with a file size of 198.2 KB.

Investment Bank - Technology Nicholas J5 Wood 03/05/2006 17:50

To: Jason LDN Hughes/JPMCHASE cc: joseph g coleman Subject: Re: Credit & Equity NBIA This document contains a file attachment with a file size of 199.4 KB.

This occument contains a real extraction of the top of my head the areas that we need to include in the plan are:

my review of any tools that Joe may be developing (you allude to these but don's specify what they do or how big they will be - bottom of P13) care appropriate id admin workflows for the existing apps (Pyramid, STS, early for the CIO staff - unless we will use thre same approvers as for EOG and EAM update the BC plans for CIO as these new systems will need to be included.

Nick Wood

Robert J. Cole Compliance - Tel 212/270-1554 Fax 212/270-3450 Robert J Cole

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CIO

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Credit & Equity NBIA Sign-off.txt

05/05/2006 20:19

TO: Jason LON Hughes/JPMCHASE@JPMCHASE
CC: Roger X: Nibolle-White/JPMCHASE@JPMCHASE, Brandon
Konjgsberg/JPMCHASE@JPMCHASE, Carollyn Monroe-Koatz/JPMCHASE@JPMCHASE,
Colin R Harrison/JPMCHASE@JPMCHASE
R: NSTA - Compliance Section

Jason- see my comments below (in red and strikethrough), which includes new language regarding compliance approval required before trading in credit/equity indices with less than 20 names as we discussed. With these changes, we are ok from US Compliance perspective

Feel free to call me with any questions.

- Te] (201) 595-5696 Fax (201) 595-6776 Arthur Kirshenbaum 04/05/2006 15:48

To: Jason LDN Hughes/JPMCHASE@JPMCHASE
cc: Roger X Kibble-White/JPMCHASE@JPMCHASE
subject: Re: Fw: Credit & Equity NBIA

Dason, I have no further comments or questions and approve. Is this e-mail sufficient or do you have a more formal process? Arthur

Mark Frediani 27/04/2006 15:25

TO: Jason LDN Hughes/JPMCHASE@JPMCHASE
cc: Roger X Kibble-white/JPMCHASE@JPMCHASE
subject: Re: Pw: Credit & Equity NBIA
This document contains a file attachment with a file size of 778.5 KB.

I don't have any issues. Please accept this e-mail as my sign-off.

Regards, Mark

Robert R Rupp 28/04/2006 20:49

To: Achilles O Macris/JPMCHASE@JPMCHASE, Andrew
Panzures/JPMCHASE@JPMCHASE
CC: Ina Drew/JPMCHASE@JPMCHASE, Enrico Dalla
Vecchia/JPMCHASE@JPMCHASE, Sesph S. Bonocore/JPMCHASE@JPMCHASE, Roger X
Kibble-white/JPMCHASE@JPMCHASE, Brandon Konigsberg/JPMCHASE@JPMCHASE,
Jason LDN Hughes/JPMCHASE@JPMCHASE, Fiona J. Longmuir/JPMCHASE@JPMCHASE
Subject:

Enrico, Fiona and I met to review the credit and equity NBIA and we agreed to sign-off, for purposes of the new product approval process.

Fiona prepared a summary of our discussion which includes a list of follow-up issues (see the bottom of the attachment). More detailed information is included in the NBIA document. Most of the issues are Page 3

. 010

PAGE ZB/30

Credit & Equity NBIA Sign-off.txt related to feeds and reports that Roger/Fiona/Jason and others have been working on. In addition to those issues, there are two items I want to note here:

We assembled an approach to limits that parallels the method used in the IB for these products. While we are set on VAR limits, we need to work with you to fill out the other proposed limits (eg delta, vega, credit events) outlined in the attachment.

 $2. \ \ \,$  Pls note the systems issues around credit options which need to be resolved before proceeding with that product.

any questions/issues, lets discuss early next week. thanks вор

CIO / GFLM Technology - Tel 212-622-6136 Joseph G Coleman 25/04/2006 13:03

To: Jason LON Hughes/JPMCHASE@JPMCHASE
cc: Alison C Giovannetti/JPMCHASE@JPMCHASE
Subject: Re: Credit & Equity NBIA

Confirmed - I sign off

Elliot M Honeyfield 20/04/2006 10:39

To: Jason LDN Hughes/JPMCHASE@JPMCHASE cc: Roger X Kibble-White/JPMCHASE@JPMCHASE Subject: Re: Credit & Equity NBIA This document contains a file attachment with a file size of 198.2 KB.

Happy to sign off, just noticed a few grammar errors that I will advise of

regards

Elliot

LONDON BRANCH LEA LEGAL ENTITY CONTROLLERS - Tel 44 207 777 2275 Fax 44 207 777 2010 Mark S. Allen 09/09/2008 Bis50

TO: JASON LDN HUGHES/JPMCHASE@JPMCHASE

cc: Andrew Marcovitch/JPMCHASE@JPMCHASE, Arthur

kirshenbaum/JPMCHASE@JPMCHASE, Dermot w walsh/JPMCHASE@JPMCHASE, Rachel E

Leigh/JPMCHASE@JPMCHASE, Madhura Shah/JPMCHASE@JPMCHASE, Subject: Re: Fw: Credit & Equity NBIA

This document contains a file attachment with a file size of 778.5 kB.

My sign-off is obviously dependant on Rachel Leigh's approval to use the Equities infrastructure. Otherwise no further questions.

CIO

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Credit & Equity NBIA Sign-off.txt

Mark

Roger X Kibble-White 10/05/2006 12:10

To: Jason LDN Hughes/JPMCHASE@JPMCHASE
cc:
Subject: Fw: Credit & Equity NBIA
This document contains a file attachment with a file size of 198.2 KB.

signed-off.

Thanks

Chief Investment Office Finance and Business Management - Tel (852)2800-7091 or GDP280-7091 Fax (852)2810-6709 colvis Lee 10/05/2006 14:52

To: Jason LDN Hughes/JPMCHASE@JPMCHASE
cc: Charles K.C. Mong/JPMCHASE@JPMCHASE, Roger X
Kibble-white/JPMCHASE@JPMCHASE
Subject: Re: equity and credit initiatives

There is no issue from Asia CIO CFO perspective. The market risk limits granted are on a global basis. We are in the process of coordinating a separate NBR sign-off for Asia and will refer to the global limits in our assessment. Pls take this as my signoff.

Thanks,

Colvis

Chief Investment Office CFO/COO Joseph S. Bonocore 10/05/2006 16:09

TO: Jason LDN Hughes/JPMCHASE@JPMCHASE
-cc: Roger x kibble-white/JPMCHASE@JPMCHASE, Ina
Drew/JPMCHASE@JPMCHASE
Credit/Equities NBIA

Approved.

Chief Investment Office Ina Drew 10/05/2006 16:19

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05/22/2008 15:32 Z1Z0340550

Credit & Equity NBIA Sign-off.txt

TO: Jason LDN Hughes/JPMCHASE@JPMCHASE
cc: Roger X Kibble-white/JPMCHASE@JPMCHASE, Joseph S.
Bonocore/JPMCHASE@JPMCHASE
Subject: Fw: Credit/Equities NBIA

Approved, Ina Drew

Carolyn L. Monroe-Koatz Managing Director & Assoc. General Counsel Carolyn Monroe-Koatz 15/05/2006 14:59 To: Roger X Kibble-White/JPMCHASE@JPMCHASE CC: Subject: Credit and Equity Capability NBIA

Roger - can't find the mail asking me to sign off. I am signed off, but I am going to send you later today a revised NBIA. My assistant is inputting more material into the Legal section right now. CMK

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Risk Policy

# New Business Initiative Approval Chief Investment Office & Global Treasury

Updated: 3/22/2012

#### Contents

Rationale
This policy was originally approved by Chief Investment Office's Risk Committee on May 5, 2005 and was effective as of that date. The policy was most recently reviewed on June 30, 2011. It has been developed in accordance with the Firm-wide policy New Business Initiative Approval (NBIA), which requires each line of business to destablish an NBIA policy following certain guiding principles for risk control, and approval of that policy, by the Business Control Committee. The C10 Risk Committee, under its charter, reviews and/or approves (as appropriate) Risk policy and strategy for all risk impacting the Chief Investment Office. The NBIA policy sets forth is framework that electrologic kinovaldon and introduction of new products, while making sure that the risks are identified, controls established and approved prior to leunch.

#### Changes from Previous Version

- Initiative risk assessments have been added to the NBIA template in accordance with the materiality
  of the applicable risks.
   Expanded the Governance section of the policy to ensure NBIA proposals are reasonable and
  appropriate through the monitoring conducted by the Business Control Committee.
   Post Approval process has been added to help ensure that subsequent requirements are recorded,
  monitored and completed on a timely basis.

Scope
This Policy applies to initiatives arising from Global CTO lines of business and Global Treasury.

Definition of New Business Initiative

A New Business Initiative Approval (NBIA) is the introduction of a new or changed product, service or activity. The materiality of a change is a determining factor in identifying the appropriate risk control procedure to be followed.

In a broad sense, new initiatives include the following:

A new product to a region or business line with CLO.

A significant change to an existing product or business activity that significantly alters the risk managed by CLO.

Introduction of a product or activity in a new location.

A product, service, business or program or a subsidieny acquisition that requires significant change to allow regulatory compiliance.

A new product or activity requiring significant change to systems, operations or middle office infrastructure to process.

Revival of an existing product or activity that has been dormant for a significant period of time.

If an initiative is determined to be a variation of an existing product by the Initiative Proposer and the Global Head of ORM, then NBIA Lite procedures are followed.

Sponsorship
Each NBIA should be sponsored by a regional or business head. The proposal, which is managed and retained for future reference by the Key Contact (purson responsible for managing the process) should be in the form of a proposal summary analysis and include, where appropriate, the following information:

Brief Initiative Description
Economic Rationale
Responsible parties involved with initiative
Other significant information

### Initiative Risk Assessment

Each initiative is risk ranked according to the materiality of the applicable risks. Any question regarding the risk rank can be escalated from the working group to the head of Market Risk or Operational Risk Management (ORM). Guidance on risk ranking is maintained by ORM and a summary is included below.

Risk Rank Guidance Summary: General guidance is provided below on the risk ranking of Initiatives. The general principle behind the risk ranking process is to compare the proposed activity to the existing business and control environment of both CIO and JPMorgan as a whole.

Establishment of Risk Rank 1 or 2 mandates that a Full NBIA template be used. Establishment of Risk Rank 3 indicates that an NBIA Lite template may be used.

Raisk, Bank, J. High risk: significant incremental risk - New business for the area, significant residual risk after risk management, manually intensive environment, considerable legal exposure, cross border issues, significant effort for feepulatory approval, infrastructure under stress, major investment of capital, significant balance sheet implication.

Activity completely new to the CIO.

Activity that requires a new operating legal entity.

Activity that requires significant investment (e.g. for technology /new hires) or has major potential financial impact.

Significant expansion of current high-risk activities.

A combination of these may indicate a potential RR1 initiative.

- Risk Rank 2 Hedium Risk: moderate incremental risk multiple risk control areas are affected requiring cross discussion about the risks and operational considerations.

  Variation of existing products (which requires new infrastructure or control processes).

  Officing existing products in a different location or from a different legal entity (which requires new infrastructure or control processes).

  Expanding existing products to different Business Units (which requires new infrastructure or control processes).

Risk Rank 3 - Low risk: little incremental risk - implementation of an initiative requiring the involvement of several risk control areas where only minor concerns are anticipated.

- Change to an existing, well-controlled product or business.

- Offering existing products in a different location or from a different legal entity (for which limited new infrastructure is required and existing control processes will be leveraged).

- Expanding existing products to different Business Units (for which limited new infrastructure is required and existing control processes will be leveraged).

During the review process, if the incremental risk of an initiative is more or less significant than anticipated, the risk rank can be amended.

risk rank can be amended.

Initiative Review and Approval Process
The NBIA approval process should include a working group comprising of representatives from the following groups:

Regional or business unit head
Credit Risk
Market Risk Hanagement
Finance/Voluntion
Operatorial Risk Management
Middle Office
Finance
Global Controller
Regulatory (some regions may require multiple regulatory approvals)
Treasury
Tax
Compliance
Legal
Operations
Technology
Others (as needed)

The sponsor is responsible for communicating via email documentation to all designated signatories at initiation of an NBIA proposal. It should comprise a clear business rationale, overview of the product, proposed support infrastructure and outline any known issues. The forum should also offer signatories a chance to pitch initial questions or raise concerns/issues that may need resolution prior to launch.

All Initiatives should be evaluated in terms of risk and subject to a review and approval process as outlined in Exhibit A. Initiatives should be reviewed and approved by each impacted risk stripe. The working group is responsible for commenting on risk impact, establishing appropriate controls and processes and providing input to documentation.

Risk stripes have the ability to provide conditional approval. Examples may include:
Regulatory approval or notification required prior to implementation.
Operational parameters (e.g. technology requirements).

Conditional approvals, if any, are reviewed at the Business Control Committee (BCC) meetings.

Governance
The Business Control Committee (BCC) forum members discuss and review global NBIA proposals. Participants in the BCC include the Head of business, the Global CFO, the Controller and representatives from the various functional areas – legal, compliance, market risk, technology and operations and audit.

The BCC has oversight responsibility for the NBIA processes and generally ensures that current NBIA proposals are reasonable and appropriate.

If an NBIA cuts across two or more locations where coverage personnel differ, the signatories should ensure approval is sought from all additional interested parties before offering an official sign-off on behalf of their function. Approvals must be received in written email format from each designated signatory.

Documentation Requirements

For each Initiative, the definition and scope of the activity, economic rationale, risks and controls should be recorded in a document (the 'NBIA Document'). Template is attached in Exhibit B.

The key contact (Middle/ Front Office) will be responsible for managing and coordinating the approval process for the NBIA. Final NBIA information will be archived for seven years from the date of approval.

The NBIA document represents the engagement of all required functional groups and is reviewed by Audit.

All NBIA requests and completed activities are tracked and stored in Jira, a central database, which is the sole repository for NBIAs and required approvals.

Post Approval Requirements
The Key Contact of the completed NBJA is responsible for ensuring that post approval requirements are tracked, reviewed and monitored to closure. Post approval requirements are coordinated by the Key Contact unless otherwise agreed by the Business Unit CFO.

- Post approval requirements include:

  Recording the Initiative implementation date.

  Monitoring and reporting any conditional approval until closure.

  Completing a Post Implementation Review (*PIR*) for all full NBIAs.

The PIR should be completed within 6 months of first activity with any extension to this period agreed with the Business Unit CFO and the key contact. They should:

Verify that the Initiative is materially the same as that approved.

Check that economic performance and limits are within projected levels.

Check that controls are effective and transaction volume is not negatively impacting the infrastructure.

- Roles and Responsibilities
  Initiative Proposer (Front Office / Other functions)
  o Responsible for creating or proposing NBIA with financial case and soliciting senior business support (see "Sponsorship" section for details).

  Xey Contact (NA: Middle Office; ENA: Middle Office; Charle, Middle Office; Other Michael Charles and prepares the NBIA process and prepares the NBIA officement.

- Maintains a master copy of NBIA document and ensures it is kept updated.
   Final, represented copy to be housed in Jira with approval signatures.
   Escalates Issues and delays to CFO / Working group and ensures the NBIA process is complete prior to initiative launch.
   Responsible for completion and/or execution of the Post Implementation Review (PIR).
  Working Group (see "Initiative review and approval process")
   Identify activities that require NBIA review; comment on the risk impact (ultimate escalation points include CFO, COO and CRO); establish appropriate controls.
   Provide confirmation on initial due diligence to proceed with initiative (NBIA) development.
  Global Controller
- Provide Continuation on many one surgicular and accounting/GAAP policies are established.
   Responsible for ensuring proper reporting and accounting/GAAP policies are established.
   Responsible for forecasting of RWA based on existing products and rules. Validate RWA calculations provided by corporate.

- CFO
  Ensure due diligence is enacted to comply with CIO NBIA guidelines.
  Monitor accounting/GAAP policies are followed as established by the Global Controller.
  Ensure proper portfolio/strategy is associated with the NBIA under review.
- coo
- COO
  In collaboration with Working Group, agrees to preliminary Risk Ranking.
  Oversees the overall NBIA process within their LOB.
  Responsible for guiding the Key Contact in completing the PIR.
  ORM Control Team
  - MECONTO' Team
     Oversees the overall NBIA Policy and Process and provides guidance and training where required.
     Assists in the determination of the NBIA Risk Rank where needed and acts as a central control and escalation point for issues.
     Maintains all completed NBIA documentation,
     Monitors and triggers the six-month Post Implementation Review.

- Other Considerations

  In the event an NBI-driven transaction is not executed within 1 year of signoff, the NBIA should be recirculated for re-validation.

  Records of all NBI approvals should be maintained within the sponsoring location.

Regulatory Requirements

The NBIA policy is a key control for Sarbanes-Oxley, Documentation of an initiative definition, controls, how appropriate risk area reviewers were determined and actual risk area approvals are to be archived for seven years. Interagency statements and individual statements regarding new initiative due diligence are regularly distributed by regulators. As an example, guidance as to the process to be followed to prudently manage the risks associated with new, expanded or modified bank products and services was distributed by the OCC, on May 10, 2004. OCC Bulletin 2004-20, Bick Management of New, Expanded, or Modified Bank Products and Services: Risk Management Process is found at <a href="https://www.occ.treas.gov/2004/May.htm">https://www.occ.treas.gov/2004/May.htm</a>.



Exhibit A: Process of development of an initiative for Review and Approval



NBIA, Chief Investment Office & Global Treasu

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### Exhibit B: NBIA document templates

# Chief Investment Office / Global Treasury New Business Initiative Approval Executive Summary

Name of Initiative				
Portfolio(syRegion(s)				
Initiative Sponsor				
Initiative Approver				
Brief Initiative Description				
Economic Rational for Proceeding (estimated risks and rewards, including profits and losses)				
Key Changes From Current Activity				
Changes to Operational Processes				
Key Risk Issues				
Risk Rating (1, 2 or 3)	1	2	3	
	High	Medium	Low	
Priority Rating (A, B or C)	A	В	C ·	
	High	Medium	Low	
Account Treatment (ex Trading, FAS				
Target Launch Date	***************************************			····
Date Authorized to Proceed with Development				

Guidance:
Initiative Approver authorizes initiative development, agrees the initiative bunch and prioritines initiatives for development. The initiative approver should be a direct report of the CIO.
Initiative Sportsor: the Sportsor should typically be a Portfolio Manager.

Risk Rating is based on incremental risk and materiality of risk change:

ALLY MAKING IS DESSO ON INCREMENTAL TISK AND SECTIONARY TISK CHANGE:

1 - Nish Nisk - significant incremental risk new business for the area, significant residual risk siter risk management, manually intensive environment, considerable legal exposure, cross border issues, significant effort for Regulator approva), infrastructure under stress, major investment of capital, significant bilance sheet implication

2 - Nedium Risk - moderater incremental risk - multiple risk control areas are affected requiring cross discussion about the risks and operational considerations.

3 - Low Risk - little incremental risk - implementation of an initiative requiring the involvement of several risk control areas where only minor concerns are anticipated.

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# JPMorganChase 🖨

Chief Investment Office/ Global Treasury New Business Initiative Approval Proposal

> (Portfolio(s)/Region(s)) (Title of Product Proposal)

Initiative Sponsor	
Key Contact	
Date Authorization to Develop Received	
Target Launch Date	

NBIA, Chief Investment Office & Global Treasur

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### Table of Contents

- 1. Proposal Summary
- 2. Working Group & Approver List
- 3. Initiative Overview
- 4. Trade & Legal Entity Flow
- Market Risk
- 6. Credit Risk
- 7. Finance Accounting
- 8. Finance Middle Office / Operations
- 9. Finance Controls / Operational Risk Mgmt /VCG
- 10. Finance Local LEC (where applicable)
- 11. Technology
- 12. Treasury Funding (where applicable)
- 13. Treasury Regulatory (where applicable)
- 14. Regulatory
- 15. Tax
- 16. Legal
- 17. Compliance
- 18. Audi

Appendices as necessary e.g. external product description documents, legal documents, detailed operating procedures

NBIA, Chief Investment Office & Global Treasur

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### 1. Proposal Summary

Name of Initiative				
Portfolio(s)/Regions(s)				
Initiative Sponsor				
Initiative Approver				
Brief Initiative Description	1			
Economic rationale for proceeding (estimated risks and rewards, including profits and losses)				
Key changes from current activity				
Key Risk issues				
Risk Rating (1, 2 or 3)	i High	2 Medium	3 Law	
Priority Rating (A, B or C)	A High	B Medium	C Lave	
Processing Location				
Main systems impacted				
Legal Enties that are impacted				
LOB's that are impacted				
Operational impact (include anticipated volumes and key capacity			***************************************	
metrics)				
Other significant information				
Regulatory approvals required				
Balance Sheet usage				
Accounting Treatment(ex Trading, FAS				
133)				
Note any Reputation Risk Review				
requirements				
Other Policies impacted				
Additional Headcount Required				
Date authorized to proceed with				
development				
Target Launch Date				
Key Contact for questions				
Person responsible for Post Implementation				

# 2. Working Group and Approvers

Stakeholder Area	Working Group Member(s)	Signature	Agreed Completion Date	Date Approved
Business Sponsorship				
Global Head				
Global CFO				
Portfolio Manager (Initiative Sponsor)				
Regional CFO				
Global Controller				
NSIA Preparer				
	ļ		_	
Risk Control Areas				
Market Risk				
Credin Risk				
Finance - Accounting Polities				
Finance Middle Office / Operations				
Finance - Controls / Operational Risk Mgmx /VCG				
Finance-Local LEC(where applicable)				
Technology				
Treasury Funding (where applicable)				
Tressury Regulatory (where applicable)				
Regulatory				
Tex				
Legal				
Compliance				
Awdit				
Other or appropriate				
Other as apprepriate Senior Country Officer				
Legal Emily CFO/SFO				

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# 3. Initiative Overview i, loitiative description, economic justification, strategic fit, growth forcest, expected volume, capacity limits ii, Business Rationals including market opportunities and risks 4. Trade & Legal Entity Flow i. Include an expanded end to and product flow diagram including all Key Sox controls and reconciliations. Within the product cyclic planse ensure that local trade capture, gold daily appearing conformation & differenties, explainery reporting and collaired rights. Lizz all legal entires, Standed upon Numbers (SPR) & Arch experce systems have temperated. 5. Market Risk i. Describe exposer to interest rate risks. If you will VAX's be calculated. Describe in depail what system will be used to monitor and expose and VAV. If you will VAX's be calculated. Describe in depail what system will be used to monitor and expose to exact the property of the prop 6. Credit Risk Consider: exposure, limits, models, hedging and process flows for accurate risk monitoring and reporting. Counterpary considerations: Margin and colleteral messagement 7. Finance - Accounting Finance - Accounting Describe recogning researed to be violized Consider Accounting Policy review and Explanery reporting implications Will the assuming five the one proface by reformed immostly or will 1 be assumed. Will be assumed professor the professor dimmostly or will 1 be assumed? As it is described makestable. As it is described makestable. As it is described makestable. Which inverse incommendated/by: As it is described makestable. If the professor is not assumed for a set of Convass Effective Y Feld, Prospersion or Resonance for SFA 5.115 impairment makes 1/f forward for the professor of the set of the professor of the set of the professor of the set of the professor of the set of the set of the professor of the set of the professor of the set of the professor of the set of the professor of the set of the professor of the set of the professor of the set of the professor of the set of the professor of the set of the professor of the set of the professor of the set of the professor of the set of the professor of the professor of the pro 8. Finance - Middle Office/ Operations E. Liu operations areas impassed with bocation and manager responsible, note key impact, staffing expenites, requestly concerns. Is. Non manual procedure, places to surrounce, received external communication, client reporting, client valuation, confirmations, etc. Is. Also with Clobal NeV Due to (eff. Will his termanual or system fel? Is also with Clobal NeV Due to (eff. Will his termanual or system fel? Is also yell requested to the concernment when set to place to the control of the control 9. Finance - Controls / Operational Risk Mgmt /VCG Consider changes to the control environment including process, control procedures and servew. For all fractions performed by parties external to CIO piease identify the appropriate purper for all confirm that the appropriate hundrals are created. This will ensure that from a SOX's supposite the recting of councils is appropriately handled. ii. Describe makter valuation and pricing motholology. Highlight VCD implications including model reads (new or existing), model validations procedures. Consider pricing model reads (new or existing), model validations proceedure. Consider pricing model validations proceedure. Consider pricing model validation procedure. 10. Finance-Local LEC (where applicable) 1. Local accounting emples NBIA, Chief Investment Office & Global Treasury

### 11. Technology

Systom needs: Will additional systoms or systom enhancements be needed? If so what is the materiality of the need? Which existing systems must inverface with the new problem? Will system insurface be mused or electronic?
 If also is not appearing and integer must now encloses or minused worksmounds and spreadthests, agreed limitations, external weathers

## 12. Treasury Funding (where applicable) i. Note the impact of funding and inquidity

13. Treasury Regulatory (where applicable)

3. Nose any Ceptral Investments, belance sheet wage, Paren, Bank or Affiliase funding, Crossany

ii. Estimans funding requirement; overall, by logal entity and main currencies; lequidity implication

#### 14. Regulatory

i. Overview ii Regulatory Reporting NPA Review Considerations

### Regulatory Reporting NPA Review Considerations

- Has this product been reviewed by regulatory reporting (US and non-US) to ensure that it will be reported in accordance with regulatory reporting requirements. List any regulatory reporting requirements (US and non-US) in relation to the new product and provide a description of any requirements that differ from GAIP
- For Risk-based capital purposes, will this produce be booked under reading or banking book rules and has legal and regulatory
  reporting reviewed the proposed treatment, where appropriate. Hos any import to risk weighted oaset been identified, evaluated and
  communicated to regulatory reporting. Are the appropriate risk weighted asset limits in place and been reviewed by the applicable CFO?
- Will this product feed into appropriate market, counterporty credit and specific risk systems (if so, please describe the feed names, internal model, risk and booking systems, and appropriate contacts in technology and middle office)? If not, have procedures and controls been put in place to report it momatify and who will be the contact person for manual reporting?
- 4. Describe the nature of any collaieral held in relation to this product.
- 5. Does this product impact deposits and, if so, has this been communicated to regulatory reporting for purposes of calculating
- 6. Has the methodology for colculoting risk weighted assets and specific risk been communicated to regulatory reporting? Is any regulatory apparant or specific risk model development required for this product?
- If this product requires risk fincluding general, specific and counterpary) has the product been submitted to regulatory reporting to
  update the risk inventory list?

- Invisidiscino considerations, withholding star, VAT, income attribution
   II Tax states c.g. hat submutged invasation, tax shelter regulations
   III Tax states c.g. hat submutged invasation, tax shelter regulations
   III Da the lax notes differ from accounting rules? If so, have the systems been set up to capture the information needed for tax purposes?
- 16. Legal

A review needs to be conducted on the legal framework

### 17. Compliance

A review of Complance cases for all jurisdictions impacted seeds to be completed. It should consider connecessaries to reduce risks related to regulatory, documentation and procedure.

Date the minister exclude companitive bodding (a transaction in which JPMorgan Chase & Co. or a subsidiary submits a bird to provide or purchase a featantial product or service in a strongetivity process; that is retracted to remark the exclusion of occur more valencing bads, fee from collations). If ma, has initiative must also be reviewed by Amittan.

Compliance prior to MBIA approval, and if the NBIA is approved, the new business activity will need to be added to the last of competitive bidding activities subject to additional pobleces, procedures and counts under the terms of various regulatory agreements deted July 6, 2011.

### 18. Audit

A review of the risk of fraud, theft, error should be performed.

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### Chief Investment Office & Global Treasury New Business Initiative Approval Policy

### Post-Implementation Review

### Section I - to be completed 6 months post first trade execution.

Name of Initiative:			
Line of Business:			
Post Implementation Key Con	itact:		
Launch Approval Date:			
First Transaction Date:			
Brief description of the appro	ved initiative:		
(copy from initiative summary			
List any conditions associated	with the approval, comment on open items and the s	imeframe for completion.	
List any conditions associated Risk Review Group	with the approval, comment on open items and the t	imeframe for completion.    Comments	************
			***********
Risk Review Group			
Risk Review Group	Conditions raised during sign off		
Risk Review Group  Section 2 - to be completed wi  Address the following:	Conditions raised during sign off		
Risk Review Group  Section 2 - to be completed wi Address the following: Is the initiative as described in	Conditions raised during sign off		

Send completed copy to LOB ORM, Regional Expeditor and Audit

Have there been material operational changes that were or should be documented?

Have there been any technology or system issues as a result of introducing this initiative?

Post implementation review completed by (insert name)

Date (insert date completed)

# NBIA Lite Procedures

#### 1. Oblectiv

The New Business initiative Approval documentation series as a guide to help the appropriate implementation of new business. The objective of the NBIA Light version is to facilitate the approval process of certain initiatives that represent a variation of an entiring product or process.

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- 2. Eligible inligatives for the "NBIA Light" version
- Variation of an existing product / process within CIO.
- Examples: product traded in one region/legal entity will expand to other regions / LE, extension of existing product ranges (traded long-term to short-term). If a product is traded on IB but not on CIO the NBIA has to be "full version".
- In case of doubt about which version of NBIA to apply, the NBIA preparer and the Global Head of ORM should reach a consensus.
- 3. Due diligence review

Before a trade can be executed the following steps must be completed:

- 1, Fill the checklist sections A to D on Form 1
- Contact all necessary key areas/people for the appropriate implementation of the initiative and fill up section E of Form
  1. The areas to be contacted are divided in "Required approval" and "Required contact". For the "Required approval" it is
  necessary to collect the signature or approval emit of a prepresentative of the area.
   Sent the completed Form 1 to the CIO Controller.
- 4. Responsibilities of the "NBIA preparer"
- In case of doubt, contact the Global Head of ORM to determine if a Lite NBIA version is applicable.
- Contact all key areas/people listed on section E and include any other areas that should be contacted based on specific requirements of the initiative.
- Explain the initiative and check the existence of any issues or system/processes modifications necessary for the implementation of the NBIA.
- Follow up on any issues and update the key areas on the NBIA's development. Make sure that the areas involved have the same level of information by the time the NBIA will be sent to approval.
- Collect signatures or approval emails.
- 5. Post-implementation review:

The NBIA preparer has to complete a post implementation form 6 months after the trade product and submit to the CIO Controller.

### NBIA Life Form 1: Initiative Approval Proposal

### (If any of the items are not applicable write N/A, please don't delete the line)

#### A Proposal Summar

1	Initiative Name:	The state of the s
2	NBIA preparer:	
3	Creation date:	
4	Brief Initiative Description:	
5	Initiative Proposer /sponsor	
6	Region:	
7	Justification for NBIA lite	
8	Status:	
9	Proposed Launch Date:	

# B. Systems impacted

1	Legal entity(ies) impacted:	
2	Legal Entity Branch ID	
3	LE / OU Number	
4	Standard Party Number (SPN)	
5	Org Code	
6	Trade Capture system - Pontolio / Book - Portfolio / Book Type (Accrual or MTM)	
7	Settlement system/ issues - Portfolio / Book	
8	Confirmation process	
9	Will system feed the general ledger?	
10	VAR Portfelio	
11	How will VaRs be calculated?	
12	How will GlobalNet/DAC be fed? (Manual or system fed?)	
13a	Does product requires the use of a model for valuation and/or risk management purposes. If yes, has the model been tested, approved and documented in accordance with standards established in the Firm-wide Model Risk Policy?	
13b	If no, is this model currently in the pipeline to be reviewed by the MRG team? In addition, has it been identified as an unapproved model in the model reporting database?	

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### C. Accounting treatment

1	How will the Product be treated for accounting? (Trading,AFS, or SFAS 133)	
2	If this new product is a Security (FAS 115) please answer questions 3-6, if not please skip to question 7.	1
3	Are the Securities marketable?	
4	Which interest income methodology will be used? (Constant Effective Yield, Prospective, or Retrospective)	
5	What impairment rules will be the Securities be subject to?	When accounted for as AFS, the product will be subject to SFAS 115 impairment rules. If lower than AA, then subject to EFFF 99- 20
6	If the product is to be accounted for as AFS, then has it been reviewed for embedded derivatives?	
7	What SFAS 157 Fair Value Measurement classification will be assigned?	
8	How will Specific Risk be reported?  Manual or system fed to PCM?	
9	If manual, what is the risk weighting based on Basel treatment?	
10	Is this product an SPV? If yes, how will this item be consolidated on the balance sheet?	
11	Will the security receive Market Risk or Banking Book Rules?	Securities Accounted for as trading are eligible to receive banking book RWA if certain criteria are satisfied (no embedded derivatives, intent to hold, etc).
12	If Market Risk Rules, what is the VaR and StressVaR?	
13	What type of product is it (if banking book rules)?	Product type will determine Loss Given Default

### D. Controls, legal and other processes

1	Which controls and reconciliation will be performed? Please list out.	
2	Are any controls being performed by non CIO groups?	
3	Which substantiation process will be in place?	
4	What is the source of daily marks? External marks?	
5	Price testing required? If yes, what is the source?	
6	Legal / regulatory restrictions? Explain.	
7	Compliance restrictions? Explain.	
8	Specific Collateral management needs	·
9	How will this product be funded?	
	1	

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### E. Areas contacted during the NBIA process

### Required contacts:

	Contact name	Mark if not applicable
Market Risk	Peter Wieland	☐ N/A
Middle Office	NA Bonnie Kindler	□ N/A
	EMEA - Paul Bates	
	Asia – Fei Qian / Yuling Xu	
CIO Accounting Policy	Nancy Dennery	□ N/A
Valuation Control Group/ ORM	Edward Kasil	□ N/A
Technology	Joseph Coleman	. □ N/A
Legal	Caroline Monroe Koatz, Angela Liuzzi	□ N/A
Compliance	Robert Cole	□ N/A
Audit	8iii McManus	□ N/A
		[] N/A

### Required approval (signature or approving email must de attached to this Form):

r	
Business Head Sign-off	
CFO Sign-off	
Global Controller	
NRIA menerar	

Launch Approval Date:	
Conditions associated with the approval	
(if any):	

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# NBIA Lite Form 2: Post-Implementation Review (To be completed by NBIA preparer)

#### Section 1 - Please fill the table below by copying the items from NBIA lite form 1.

nitiative Name:	
Brief Initiative Description:	
nitiative Proposer/sponsor	
aunch Approval Date:	
Conditions associated with the approvi	
Section 2 - to be completed within 5	nonths of the activity going live
First transaction date:	
Was the initiative implemented as de-	ribed in the proposal when it was approved? If not describe material operational changes.
Have there been any operational error	s as a result of introducing this initiative?
is the initiative within the volumes, lin	is and constrains agreed when approval was granted?
Have system implementations / mod	cations and any follow ups/conditions defined during the approval process been addressed
NBIA preparer	(insert name)
Date	(Insert date completed)

Send completed copy to local ORM.

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Jalan, Rashmi <rashmi.jalan@chase.com> From:

Sat, 21 Jan 2012 00:09:26 GMT Sent:

Sent: Sat, 21 Jan 2012 00:09:26 GMT

Alexander, David M < david.m.alexander@jpmorgan.com>; Braunstein, Douglas <br/>
Couglas Braunstein@jpmorgan.com>; Olmon, Jamie <jamie.dimon@jpmchase.com>; Drew, Ina <Ina.Drew@jpmorgan.com>; Goldman, Irvin J <irvin.j.goldman@jpmchase.com>; Lee, Chris C. <chris.C.Lee@jpmorgan.com>; Macris, Achilles O <achilles.o.macris@jpmorgan.com>; Sabo, Richard W <ri>Crichard.W. sabo@jpmchase.com>; Tse, Irene Y <irene.v.tse@jpmorgan.com>; Weiland, Peter <peter.weiland@jpmchase.com>; Wilmot, John 
<JOHN.WILMOT@jpmorgan.com>; deidre.schiela@us.pwc.com'; 'kristen.brown@us.pwc.com'
Fnfield, Keith <Keith.Enfield@jpmorgan.com>; Gandhi, Samir X 
<amir.x.gandhi@jpmchase.com>; Jalan, Rashmi <rashmi.jalan@chase.com>; Giovannetti, Alison C <ali>Alison C <ali>c.giovannetti@jpmorgan.com>; Lahoud, Michael 
Alichael.Lahoud@jpmorgan.com>; Masur, Jon J <jon.j.masur@jpmorgan.com>; McManus, William K <mcmanus_william@jpmorgan.com>; Sinha, Sreejib X <sreejib.x.sinha@chase.com>; Weiner, Pamela <pamela.weiner@jpmorgan.com>
Subject: CIO Weekly - 1/20/2012

All.

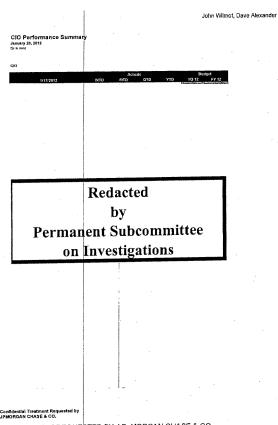
Please see attached the CIO weekly for the week of 1/20/2012.

#### Best Regards,

Rashmi Jalan Chief Investment Office | J.P. Morgan, Floor 10, 270 Park Avenue, New York, United States | (**) 212-834-6020| rashmi.jalan@chass.com

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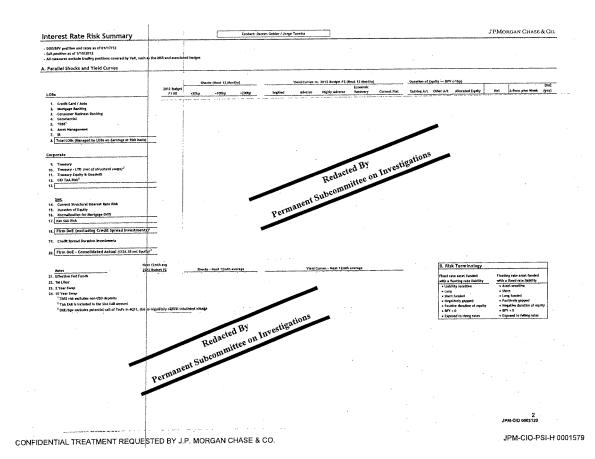
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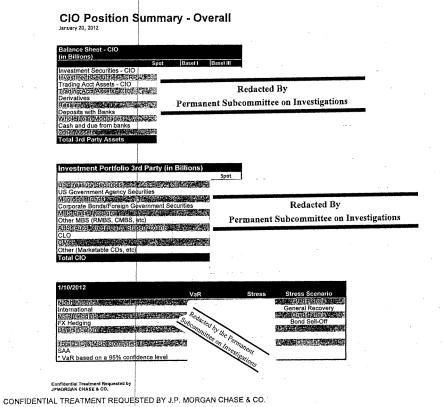


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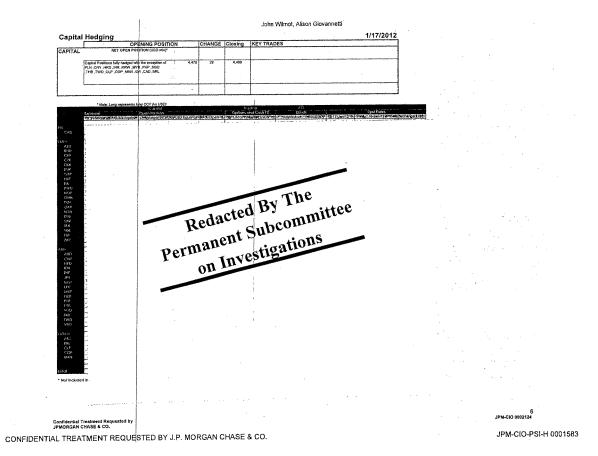
JPM-CIO-PSI-H 0001578

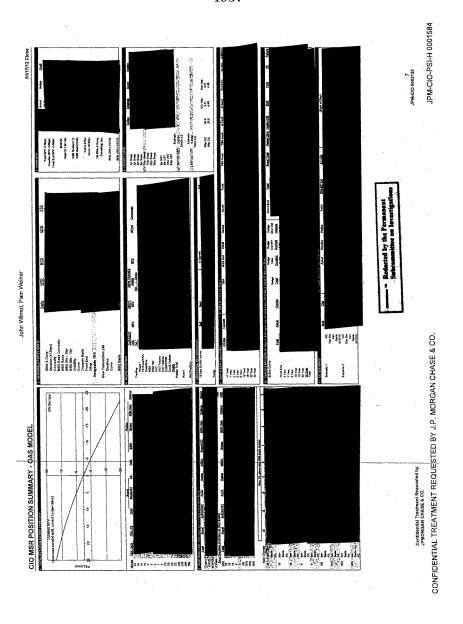
1 JPM-CIO 0002119





5 JPM-CIO 0002123





Evangelisti, Joseph <joseph.evangelisti@jpmchase.com> From:

Wed, 04 Apr 2012 23:22:52 GMT Sent:

Goldman, Irvin J <irvin.j.goldman@jpmchase.com> To:

Subject: RE: Call

Greg got back to me tonight. He's not writing tonight. He'll give me more details tomorrow morning, and then  $\Gamma$  work with Ina and others on next steps. Thanks, Joe

-----Original Message----From: Goldman, Irvin J Sent: Wednesday, April 04, 2012 7:20 PM To: Evangelisti, Joseph Subject: Fw: Call

----- Original Message -----From: Weiland, Peter Sent: Wednesday, April 04, 2012 06:22 PM To: Goldman, Irvin J Subject: Call

Reducted by the Permanent Subcommittee on Investigations

So I'm sitting in Laguardia about to get on a plane. I pulled out my iphone and I had a message. It was Greg Zuckerman from the Wall Street Journal, said he was writing a story that would mention me and wanted to give me a heads up. He's doing a story on Bruno and CIO. His number is 212 416 3614. He talked to me about the story trying to get a reaction and all I told him was that I could not make any comment. To be honest what he said actually sounded fairly balanced, but you never know what might actually get into point. actually get into print.

Left you a vmail at work too.

Boarding soon but call if you want to talk.

Pete Peter Weiland JPMorgan o: +1 212 834 5549

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### 1939

From: Macris, Achilles O <achilles.o.macris@jpmorgan.com>
Sent: Mon, 09 Apr 2012 14:35:27 GMT
To: Braunstein, Douglas <Douglas.Braunstein@jpmorgan.com>
CC: Drew, Ina <Ina.Drew@jpmorgan.com>
Subject: Synthetic Credit Presentation

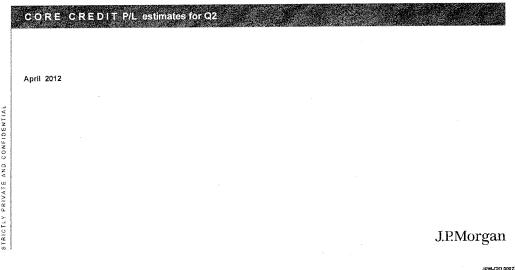
Hì Doug

FYI - the presentation related to synthetic credit is attached.

Best, Achilles

JPM-CIO 6002745

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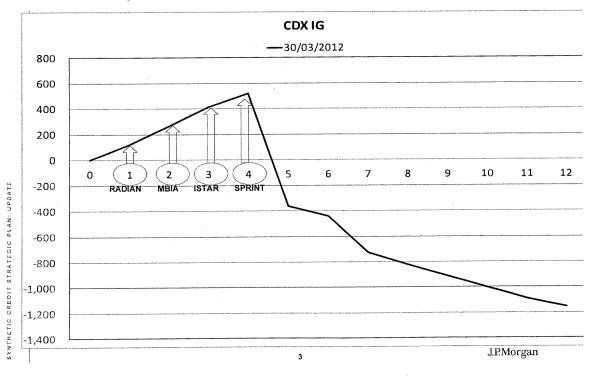


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JPM-CIO 0002746

# Default Summary - CDX IG

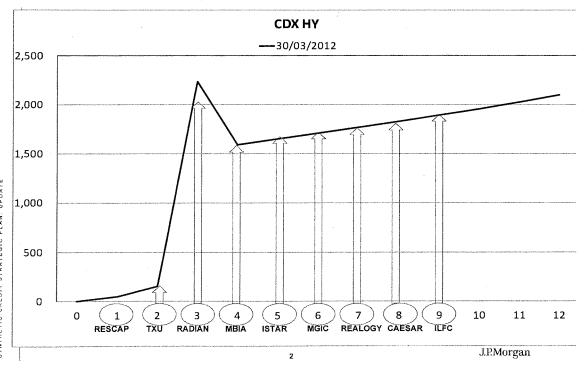


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JPM-C10 0002747

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# Default Summary - CDX HY

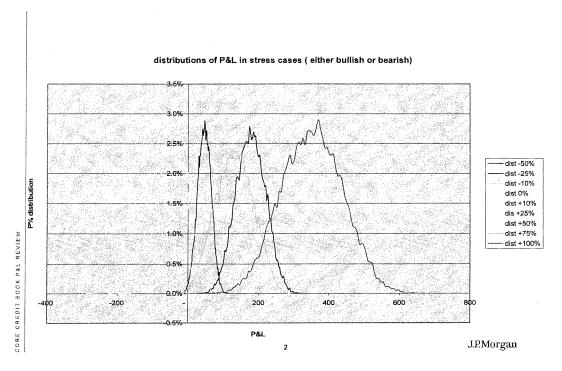


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JPM-CIO 0002749

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Current P&L: Detailed Breakdown - CDX IG 9

CDX IG9	Spread compression	spread 03/01/2012	spread 27/03/2012 Du	ration chge	Spread chge	Duration adjusted	Beta adjust Dur1	D	ur2
0.75yr	48%	132	68	-23.00%	64	90.90	91.8	0.97	0.74
2.75yr	37%	140	88	-14,00%	52	57.80	51.2	2.82	2.68
5.75yr	26%	149	111	2.000%	38	37.51	29.1	5.26	5.28
On the run 5yr	33%	121	81	-9.00%	(40	41.97	42.0	4.65	4.56
S9 forward	22%	152	118	26.00%	√ 34	26.06	19.5	4.29	4.55
IG15	35%	111	72	-12.00%	39	41.94	46.3	3.8	3.68

10

Component	CDX IG 9
Steepening	5 Bp
HY bucket Spread effect	7 Bp
Total	12 Bp

J.P.Morgan

Confidential Treatment Requested by JPMORGAN CHASE & CO.

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JPM-CIO-PSI-H 0002209

JPM-CIQ 0002750

### Current P&L: CDX IG9 performance

CDX IG9 can be proxied as a normal IG index of 117 names and 5 HY Names (MBIA, RADIAN, ISTAR, SPRINT, RR Donnelley)

27 The 5 names behaved like the whole HY market they underperform the IG market and steepened a lot

Their move relative to the rest of IG indices allows to explain most of the lag in CDX IG9 curve but not all

at Yet 0.75yr CDX IG9 outperformed by 4Bps, 2.75yr outperformed by 0 bps while 5.75yr underperformed by 2 Bps , the net P&L alone impact is estimated - USD110mm

0.75yr	compression	sp	read 03/01/2012	spread 27/03/2012	Duration chge		Spread chge	Index eq bp		index based th	eo	
CDX IG9		1%	132	68		-23.00%	64		64.00	64.0	0.97	0.74
Radian		0%	31.00%	12.48%			18.5%	*	15.18	18.82% -	0.24	
MBIA		8%	16:00%	11.49%			4.5%		3.70	9.71% -	4.26	
SPRINT	1 6	3%	5.80%	2.17%	IG tightening		3.6%		2.98	3.52%	0.09	
RRD	1 :	9%	4.09%	1.68%		55.00%	2.4%		1.98	2.48% -	0.06	
ISTAR	1	3%	12.62%	3.40%	simul		9.2%		7.56	7.66%	1.28	
% Index loss		5%	44%	51%		55.04%	31.39			-	3.20	

2.75yr	compression	spread 03/01/2012	spread 27/03/2012 Duration chge	1	Spread chge	Index eq bp		ndex based th	100	
CDX IG9	480	6 140	88	-14.00%	52		52.00	52.0	2.82	2.6
Radian	349	6 52.00%	34.50%		17.5%		14.34	20,94% -	2.82	
MBIA	145	6 36:00%	31.00%		5.0%		4.10	14.49% ~	7.78	
SPRINT	149	6 21.00%	18.00% IG tightening		3.0%		2,46	8.46% -	4,47	
RRD	200	6 15.00%	12:00%	52,00%	3.0%		2.46	6.04% -	2.49	
ISTAR	129	6 26.00%	23.00% simul		3.0%		2.46	10.47% -	6.12	
% Index loss	219	4 31%	41%	~ 39.23%	23.36				23.68	

5.75yr	compression	spread 03/01/2012	spread 27/03/2012 Duration chge		Spread chge	Index eq bp		index based the	neo	
CDX IG9	24.5	% 149	112	2.000%	37		36,50	28,3	5.26	5.28
Radian	26	% 66.00%	49.00%		17.0%		13,93	16.20%	0.66	
MBIA	10	% 51:00%	46.00%		5.0%		4.10	12.52% -	6,16	
SPRINT		% 36.50%	36.00% IG tightening		0.5%		0.41	8.96% ~	6.93	
RRD	1 3	% 30.00%	29:00%	30,00%	1.0%		0.82	7.36% -	5.22	
ISTAR	19	% 38.50%	31.00% simul		7.5%		6.15	9.45% -	1,60	
% Index loss	1. 14	% 23%	26%	25.75%	19.26			-	19.26	

J.P.Morgan

8

JPMORGAN CHASE & CO.

JPM-CIO-PSI-H 0002210

JPM-CIO 0002751

# Appendix; Position CDX IG position changes since June 2011 allocated to IG9 forward trade

IG9 history in RI N USD	Net 0,75yr"("5yr") short in	Net 2 75ur ("7ur"	index level	Index ig9 5.75yr (ig1	lá "Svr"	IG15 "5vr"	IG16 "5yr"	,	Net CDx IG Index position on "5yr pucket"
Jul-11		20.9		24.6	-1.38	-8,54	-6.07		2.86
Aug-11		23.6		28.8	-1.38	-9.04	-8,89		4,48
Sep-11	i ·	41.5			-1.6	-13.7	-26.6		-2.24
Oct-11		27.4		33.7	-2.8	-15.85	-31.7		-15,315
Nov-11	;	24,40	127	33.80 -	3.40			- 1.20 -	
Dec-11		21.8		34.8	-3.68	-16.5	-25.06	-1.7	-15.814
Jan-12	-90	20.6	120	35.6	-3.9	-16.9	-25.06	-0.8	-13.75
Feb-12		19	102	56.7	-6.3	-17.6	-22.48	-17.6	-14.355
Mar-12		22.8	93	70	-7	-18.48	-17.5	-20.8	-0.962
Apr-12	135	20.6	91	78.2	-7.7	-18.9	-17.5	-15.98	12,14

J.P.Morgan

Confidential Treatment Requested by JPMORGAN CHASE & CO.

JPM-CIO-PSI-H 0002211

JPM-CIO 0002752

# Current position and trading activity 2012

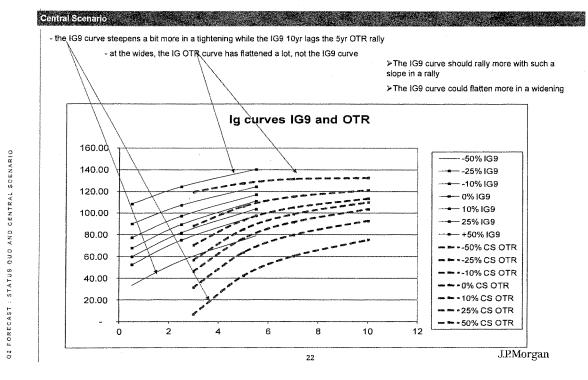
Itraxx Block		All trades		Start Jan Book	Start Feb Book	Start March Book	Current Book
Decompression trade							
Main OTR Xover	3,700	-2,479,033,784		-3,756,756,757	-3,283,783,784	-4,884,371,622	
Main OTR IG	4.500	10,599,246,667		16,062,222,222	14,040,000,000	20,883,402,222	26,661,468,889
Forward vs OTR							
S9 Fwd	4.300	15,534,528,571		20,497,375,000	27,746,375,000	33,398,625,000	38,511,625,000
5yr IG OTR eq	4.500	-14,844,105,079	0	~19,586,38D,556	-26,513,202,778	-31,914,241,667	-36,799,997,222
CDX block		All trades		Start Jan Book	Start Feb Book	Start March Book	Current Book
Decompression trade	······································						
HY OTR	4,100	-12,027,013,171		-7,246,905,439	-7,695,056,537	-14,662,635,805	-19,273,918,610
IG OTR	4.600	56,814,564,391		34,233,751,128	36,350,777,943	69,265,016,530	91,048,315,520
HY Steepener							
HY On the run	4.100	-2.550.011. <b>2</b> 20		-8,555,429,927	-11,325,839,805	-11,224,162,976	-11,105,441,146
HY10-11	2.435	4,293,653,388		14,405,446,694	19,070,202,546	18,899,001,314	18,699,100,082
Forward vs OTR							
IG9 fwd	4.500	39,888,688,889		54,651,951,114	75,029,095,559	94,017,484,448	94,540,640,003
IG OTR	4.600	-39,021,543,478		-53,463,865,220	-73,396,028,264	-91,973,626,090	-92,485,408,699
Net Index exposure per Block							
Net 5yr ITRAXX Main OTR	4.500	22,472,525,079		-4,116,619,444	6,190,069,444	14,082,350,556	
Net CDX IG OTR	4.600	13,110,337,783		-21,886,277,212	-5.681,532,288	-9,711,749,136	-8,775,939,430

JPM-CIO 0002783

J.P.Morgan

Confidential Treatment Requested by JPMORGAN CHASE & CO.

# Q2 Status Quo Scenario - A reflection on relative performance



Confidential Treatment Requested by JPMORGAN CHASE & CO.

JPM-C10 0002754

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

JPM-CIO-PSI-H 0002213

1948

### 1949

From: Dimon, Jamie <jamie.dimon@jpmchase.com>

Sent: Wed, 09 May 2012 18:44:27 GMT

Miller, Judith B. <Judith.B.Miller@jpmorgan.com>

Subject: Fw: CIO Credit Collateral differences as of COB Monday 8th - including 2 day differences against Morgan Stanley

From: Coombes, Hema S
Sent: Wednesday, May 09, 2012 02:32 PM
To: Dimon, Jamie; Braunstein, Douglas; Hogan, John J.; Drew, Ina
Cc: O'Rahilly, Rob; Bacon, Ashley; Venkatakrishnan, CS; Vigneron, Olivier X; Macris, Achilles O; Martin-Artajo, Javier X; Wilmot, John; Lewis, Phil
Subject: CIO Credit Collateral differences as of COB Monday 8th - including 2 day differences against Morgan Stanley

CIO Credit Collateral differences as of COB Monday Bth

Total difference between CIO and the counterparties is now \$144mm vs. \$212mm prior day

Largest Counterparty Difference: Morgan Stanley Capital Services is at \$54mm – down from \$61mm Largest Instrument Difference: CDX IG S09 05Y 00-03 is now \$26mm vs. \$24mm on the prior day

*Please note: Deutsche Bank AG is as per the 7th May 2012

Difference by counterparty:

Top ten differences by instrument:

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JPM-CIO-PSI-H 0002712

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Top 10 differences by Instrument against Morgan Stanley Capital Services as at COB Monday Bth May 2012:

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Top 10 differences by Instrument against Morgan Stanley Capital Services as at COB Monday 7th May 2012:

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JPM-CIO 000325

Counterparty	CKO MTM	CP MTM	CIO vs. CP MTM
CA	(19,978,291)	(21,251.216)	1,272,925
BBVASA	(455,954)	(406,062)	(49,891)
BNPP	216,228,101	220,007,619	(3,779,518)
AOB	131,319,255	104,985,052	26,334,203
BPLC	(85,500,078)	(75,305,747)	(10,194,331)
CBKAG	(1,545,925)	(1,577,246)	31,321
CGUL	(6,200,022)	(6,071,306)	(128,716)
cm	(267,346,713)	(288,248,065)	20,901,352
CSI	(173,544,944)	(181,146,246)	7,601,302
CSX	(43,348,004)	(45,071,964)	1,723,960
DBKAG	384,699,628	359,684,654	25,014,974
GSI	25,428,476	10,558,303	14,870,173
HSBCEU	16,171,803	13,571,196	2,500,607
HSBCUS	9,509,860	(13,274,409)	3,764,549
MLI	5,173,139	5,347,934	(174,796)
MSCS	347,354,073	292,975,692	54,378,381
MSL	(73,288,764)	(77,857.282)	(431,432)
NOMURAIP	124,926,304	118,702,655	5,223,649
RESPLC	79,231,353	77,998,742	1,232,611
SGC®	(150,405,087)	(130,472,796);	(19,932,291)
UBSAG	(109,323,292)	(122,342,812)	13,019,520
Total	385,085,197	240,906,695	144,178,501
Confidential	Treatment Requested by CHASE & CO.		PM-CIO 0003256

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

JPM-CIO-PSI-H 0002715

JPM-C10 0003256

| According | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Process | Pr

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

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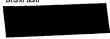
				Implied MTM	CIO Vs.			CP Implied
fratrument	Notional	CIO ATM	MSCS MTM	(Merkit Ref indes)	MSCS	Quote Type	CIO Price	Price
TRAXCEMN S09 10Y 22-100	5,476,800,000	(89,687,232)	(106,217,432)	190,203,677	17,130,199	apreed	46.50	53.78
CDX HY 511 07Y	1,425,000,000	23,119,704	15,434,549	15,394,802	7.681,155	price	101.25	100.E1
FRAXX NR 556 10Y Z2-109	900,000,000,1	1,148,599	(5,432,994)	1,148,559	6,581,593	spread	45.25	52.92
FRAXX NN S07 10Y 12-22	350,900,500	(25,525,269)	(30,414,736)	(25.925.269)	4,489,467	spread	219.59	250.49
TRAXX MR 556 10Y 03-05	245,000,000	(133,169,930)	1137,268,427	(135,811,291)	4,098,596	upfront-500	32.63	34,30
TRAXX UN 509 07Y 22-106	3,750,000,000	8,555,058	4,659,518	7,188,054	3.896,540	presd	20.25	23.57
FTR4XX MN S09 05Y 00-03	(5+3,072,000)	204,416,544	200,587,114	210,583,491	3.829,431	aptront-500	29.13	28.42
TRAXX FINSUB S14 05Y	727.000,000	(90,086,545)	(93.331.198)	191.874.2021	3,244,653	spread	389.00	402.36
TRAXX MR S09 07V	7,692,822,700	28,945,596	26.559,587	29,263,693	2,386.109	aprend	150.50	153.43
TRANX MH S66 (8) 06-09	(410,000,000)	198,148,769	201,189,742	196,148,769	(3.040.972)	upfront-300	22.25	22.99
COX IS SUB 07Y 07-10	180,000,000	5,532,677	9,364,202	5,532,877	(2,831,225)	aptrent-500	18.721	(6.35)
Other	(6,735,915,706)	242,728,325	228,193,412	242,728,325	14,534,913			
Grand Total	8,900,834,994	374,323,695	313,323,426	383,472,081	61,000,288			
atment Requested by								

Conditional Treatment Requested by JPM MORGAN CHASE & CO.

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

22,023,959	13,934,859	12,690,492	12,484,845	(11,544,194)	(10,371,578)	9,920,636	(9,334,422)	(387,272,55)	848,000,838	144,178,501	JPM-CiG 0003258	JPM-CtO-PSt-H 0002717
1259,001,0071	(45,818,852)	44,952,000	19,655,704	73,256,350	661,178,417	(16,944,148)	\$41,723,184	(5,940,694)	1,333,357,352,1	240,906,695		ri.
(333,178,393)	(31,854,092)	57,632,402	32,129,549	61,612,157	650,806,839	(7.022,482)	802,288,762	(12.516,453)	(1.249,053,527)	185,065,197	d by	GAN CHASE & CO
TRACKY WH SOS 10Y 22-100	CDX HY 519 85Y 15-25	CDX NY S11 07Y	CDX HY 508 05Y 10-15	TRACKON WHI 508 10Y 06-09	CDX IS S09 10Y 30-100	TRAXX IN: 508 10Y 12-22	TRADOCIAN 599 057 00-03	TRACKX MN 516 10Y	Officer	TE L	Confidential Trainment Requested by JPMORGAN CHASE & CO.	CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

Strictly private and confidential addressee only Bruno Iksil



 Reducted by the Permanent Subcommittee on Investigations

FRANCE

12 July 2012

Dear Bruno:

### Subject: Termination of your employment

J.P. Morgan Limited (the *Company*) hereby terminates your employment with immediate effect.

The termination of your employment relates to your management of and responsibilities in respect of the CIO's Synthetic Credit Book (the Book). The grounds for termination are that you have committed serious misconduct which may amount to gross misconduct justifying the termination of your employment by the Company with immediate effect, as follows:

- Under your responsibility for management and implementation, the Book experienced substantial, unexpected losses, after a dramatic increase in size, complexity and exposure to various risks and pursuant to a strategy that was not adequately vetted and that was executed poorly and without sufficient examination of underlying positions; and/or
- and/or

  During March and April 2012, when the Book began to show significant losses, you received or were aware of instructions from Javier Martin-Artajo (i) to show modest daily losses in the marking of the Book rather than marking the Book in a manner consistent with the standard policies and procedures of IP Morgan Chase & Co (together with its subsidiaries, the Firm) and/or (ii) to provide daily profit and loss reports that would show a long-term trend in the value of the Book's positions that did not necessarily reflect the exit price for those positions under the Firm's standard policies and procedures. You complied with, or permitted the compliance by Julien Grout with, such instructions in whole or in part with the result that there was a significant divergence between values under the Firm's standard policies and procedures and the Book's stated value; and/or

  You improperly and/or with gross negligence failed to identify, raise or assess, in a
- You improperly and/or with gross negligence failed to identify, raise or assess, in a timely manner and as reasonably expected, risks and/or concerns in relation to the Book with respect to risks material to the Firm or its business activities; and/or

J.P. Morgan Lindled 25 Bank Street, Canary Wharf, London, E14 5IP Tel: +44 (0)20 7777 2000 • Pax: +44 (0)20 3493 0684

Registered in England & Water Nn. 348809, Registered Office 25 Bank Street, County Water, Lundon, 514 3.P. Anthrebed and regulated by the Protectal Services Authority

- Your actions were inconsistent with proper marking considerations under the Firm's standard policies and procedures; and/or Your actions and/or failures to act have violated the JP Morgan Code of Conduct and/or
- other policies applicable to you; and/or Your actions and/or failures to act were injurious to the interests of the Firm or its
- relationship with its customers or clients; and/or
  Your performance of the duties associated with your position or job function was Your performance of the duties associated with your position or job function was inadequate and/or unsatisfactory and fell significantly below what is reasonably to be expected of an employee operating at your level of seniority; and/or Your failure to perform adequately and/or satisfactorily the duties associated with your position or job function is sufficiently serious to constitute serious misconduct by you; and/or
- Your conduct was detrimental to the Firm in that it caused material financial and/or reputational harm to the Firm or its business activities.

The Company will today make you a payment into your bank account of 12 weeks' salary in lieu of notice (less deductions for income tax and employee's National Insurance contributions) in accordance with clause 1.9 of your terms and conditions of employment (the Terms and Conditions). This payment is without prejudice to any final determination by the Company as to whether your conduct amounted to gross misconduct, such as would justify terminating with no payment in lieu of notice.

The Company and the Firm each retains all rights and remedies it may have against you including, but not limited to, the right to cancel or recover any cash or equity-based compensation paid to you in accordance with the terms of the relevant compensation awards, the Firm's Bonus Recoupment Policy and other policies or agreements.

You are reminded that following the termination of your employment you remain bound by the post-termination restrictions set out in the Terms and Conditions, including, in particular, clause 14 ('Confidentiality') and clause 20 ('Business Restraint Covenant'). In accordance with clause 19.6 of the Terms and Conditions, you must return to the Company all Company property including, but not limited to, any documents, Company equipment, computer disks, books, keys, documents, correspondence, records, credit cards and passes which are in your possession or control. Please do so before the close of business on 17 July 2012.

Yours sincerely,

Head of EMEA Human Resources

For and on behalf of J.P. Morgan Limited

Strictly private and confidential addressee only

Redacted by the Permanent Subcommittee on Investigation

12 July 2012

Dear Achilles:

### Subject: Termination of your employment

I.P. Morgan Chase Bank N.A. (the Company) hereby terminates your employment with

The termination of your employment relates to your oversight responsibilities in respect of your role as head of CIO International which included the Synthetic Credit Book (the Book). The grounds for termination are that you have committed serious misconduct which may amount to gross misconduct justifying the termination of your employment by the Company with immediate effect, as follows:

- Under your responsibility for oversight, the Book experienced substantial, unexpected losses, after a dramatic increase in size, complexity and exposure to various risks and pursuant to a strategy that was not adequately vetted and that was executed poorly and without sufficient examination of underlying positions; and/or You failed to provide effective or adequate oversight over the Book and the activities of Javier Martin-Artajo and the traders on the Book; and/or You improperly and/or with gross negligence failed to identify, raise or assess, in a timely manner and as reasonably expected, risks and/or concerns in relation to the Book with respect to risks material to JP Morgan Chase & Co (together with its subsidiaries, the Firm) or its business activities; and/or

- with respect to risks material to IP Morgan Chase & Co (together with its subsidiaries, the Firm) or its business activities; and/or You made representations to senior management in relation to the Book being balanced and/or well positioned and in relation to its estimated P&L scenarios and risk exposures which were significantly inaccurate in circumstances where you knew or ought to have known that such representations were inaccurate and/or omitted material facts necessary to make your representations not misleading and/or failed to make an adequate or prompt statement of correction of such representations in circumstances where it became clear that such representations were inaccurate; and/or Your conduct was detrimental to the Firm in that it caused material financial and/or reputational harm to the Firm or its business activities; and/or Your actions and/or failures to act have violated the JP Morgan Code of Conduct and/or other policies applicable to you; and/or Your actions and/or failures to act were injurious to the interests of the Firm or its

- Your actions and/or failures to act were injurious to the interests of the Firm or its relationship with its customers or clients; and/or

J.F. Morgan Chase Bank N.A. 25 Bank Street, Canary Wharf, London, E14 SIP Tet: +44 (0)20 7777 2000 • Pax: +44 (0)20 3497 0684 serod Office 25 Bank Steen, Canary Wharf, London, E14 SIP, Audhreise

- Your performance of the duties associated with your position or job function was inadequate and/or unsatisfactory and fell significantly below what is reasonably to be expected of an employee operating at your level of seniority; and/or Your failure to perform adequately and/or satisfactorily the duties associated with your position or job function is sufficiently serious to constitute serious misconduct by you.

The Company will today make you a payment into your bank account of 12 weeks' salary in lieu of notice (less deductions for income tax and employee's National Insurance contributions) in accordance with clause 1.9 of your terms and conditions of employment (the Terms and Conditions). This payment is without prejudice to any final determination by the Company as to whether your conduct amounted to gross misconduct, such as would justify terminating with no payment in lieu of notice.

The Company and the Firm each retains all rights and remedies it may have against you including, but not limited to, the right to cancel or recover any cash or equity-based compensation paid to you in accordance with the terms of the relevant compensation awards, the Firm's Bonus Recoupment Policy and other policies or agreements.

You are reminded that following the termination of your employment you remain bound by the post-termination restrictions set out in the Terms and Conditions, including, in particular, clause 14 ('Confidentiality') and clause 20 ('Business Restraint Covenant'). In accordance with clause 19.6 of the Terms and Conditions, you must return to the Company all Compary property including, but not limited to, any documents, Company equipment, computer disk, books, keys, documents, correspondence, records, credit cards and passes which are in your possession or control. Please do so before the close of business on 17 July 2012.

Yours sincerely,

Michael Boyle Head of EMEA Human Resources

For and on behalf of J.P. Morgan Chase Bank N.A.

J.P. Morgan Chese Back N.A. 25 Bank Street, Carray Wharf, London, E14 57P Tel: +44 (0)20 7777 2000 • Pix; +44 (0)20 3493 0684

Page 2

Strictly private and confidential addressee only Javier Martin-Artajo



Redacted by the Permanent Subcommittee on Investigation

12 July 2012

Dear Javier:

### Subject: Termination of your employment

J.P. Morgan Chase Bank N.A. (the *Company*) hereby terminates your employment with immediate effect.

The termination of your employment relates to your management of and responsibilities in respect of the CIO's Synthetic Credit Book (the Book). The grounds for termination are that you have committed serious misconduct which may amount to gross misconduct justifying the termination of your employment by the Company with immediate effect, as follows:

- Under your responsibility for oversight and management, the Book experienced substantial, unexpected losses, after a dramatic increase in size, complexity and exposure to various risks and pursuant to a strategy that was not adequately vetted and that was executed poorly and without sufficient examination of underlying positions; and/or
- and/or
  During March and April 2012, when the Book began to show significant losses, you
  directed Bruno Iksil and/or Julien Grout to show modest daily losses in the marking of
  the Book rather than marking the Book in a manner consistent with the standard
  policies and procedures of JP Morgan Chase & Co (together with its subsidiaries, the
  Firm) and/or to provide daily profit and loss reports that would show a long-term trend
  in the value of the Book's positions that did not necessarily reflect the exit price for
  those positions under the Firm's standard policies and procedures; and/or
  You made representations to senior management in relation to the Book being balanced
  and/or well positioned and in relation to its estimated P&L scenarios and risk exposures
  which were significantly inaccurate in circumstances where you knew or ought to have
  known that such representations were inaccurate and/or omitted material facts necessary
  to make your representations not misleading and/or failed to make an adequate or
  prompt statement of correction of such representations in circumstances where it
  became clear that such representations were inaccurate; and/or

- You improperly and/or with gross negligence failed to identify, raise or assess, in a
  timely manner and as reasonably expected, risks and/or concerns in relation to the Book
  with respect to risks material to the Firm or its business activities; and/or
- Your conduct was detrimental to the Firm in that it caused material financial and/or reputational harm to the Firm or its business activities; and/or
- Your actions and the instructions you gave were inconsistent with proper marking practices under the Firm's standard policies and procedures; and/or
- Your actions and/or failures to act have violated the JP Morgan Code of Conduct and/or other policies applicable to your and/or
- other policies applicable to you; and/or

  Your actions and/or failures to act were injurious to the interests of the Firm or its relationship with its customers or clients; and/or
- Your actions and/or failures to act were injurious to the induced of the relationship with its customers or clients; and/or
   Your performance of the duties associated with your position or job function was inadequate and/or unsatisfactory and fell significantly below what is reasonably to be expected of an employee operating at your level of seniority; and/or
- Your failure to perform adequately and/or satisfactorily the duties associated with your
  position or job function is sufficiently serious to constitute serious misconduct by you.

The Company will today make you a payment into your bank account of 12 weeks' salary in lieu of notice (less deductions for income tax and employee's National Insurance contributions) in accordance with clause 1.9 of your terms and conditions of employment (the *Terms and Conditions*). This payment is without prejudice to any final determination by the Company as to whether your conduct amounted to gross misconduct, such as would justify terminating with no payment in lieu of notice.

The Company and the Firm each retains all rights and remedies it may have against you including, but not limited to, the right to cancel or recover any cash or equity-based compensation paid to you in accordance with the terms of the relevant compensation awards, the Firm's Bonus Recoupment Policy and other policies or agreements.

You are reminded that following the termination of your employment you remain bound by the post-termination restrictions set out in the Terms and Conditions, including, in particular, clause 14 ('Confidentiality') and clause 20 ('Business Restraint Covenant'). In accordance with clause 19.6 of the Terms and Conditions, you must return to the Company all Company property including, but not limited to, any documents, Company equipment, computer disks, books, keys, documents, correspondence, records, credit cards and passes which are in your possession or control. Please do so before the close of business on 17 July 2012.

Yours sincerely,

Michael Boyle

Head of EMEA Human Resources

For and on behalf of J.P. Morgan Chase Bank N.A.

J.P. Morgan Chase Bank N.A. 25 Bark Struck Carany Wharf London, E14 SJP Tel: +44 (0)20 7777 2000 - Fax: +44 (0)20 3493 0684

Page 2

June 21, 2012

JPM-CIO-PSI-H 0002746

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### CIO compensation - Overview & Pool Determination

#### ■ Overview

- · CIO compensation consistent with firm-wide approach
- Discretionary, non-formulaic awards
- Balances performance of the Firm, CIO and individual
- Same cash/stock splits and deferred equity compensation as firm and other LOBs
- Major driver of individual total compensation is "seat value"

#### ■ Pool determination and limits

- Pool estimated at beginning of performance year based on previous year's aggregate pool, adjusted for changes in incumbents, staffing plans and other known changes
- Pool estimate reviewed during year and adjusted as needed, if significant changes in CIO financial forecast vs. CIO budget, changes in overall firm IC guidance or other significant unanticipated changes
- Determination of final pool subject to discussions at senior-most levels, taking into consideration numerous factors,
   including multi-year performance, quality of earnings and risk adjusted financial performance
- Final pool approved by CMDC

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Historical Operating Performance (\$ in millions)				
	2008 Actuals	2009 Actuals	2010 Actuals	2011 Actuals
Revenue ¹	2,345	9,157	7,207	3,126
Total Comp	. 117	. 169	203	230
Non-Comp	70	79	108	225
Total Expense	188	248	311	454
Credit Costs		3	8	15
Pre-Tax Earnings	2,157	8,906	6,888	2,657
Net-Income ¹	1,262	5,210	4,029	1,554
SVA (at 12% assumed cost of capital) RoE (Net Income/Economic Capital)	1,124 110%	5,044 377%	3,869 302%	1,301 74%
Comp/Revenue Overhead Ratio	5% 8%	2% 3%	3% 4%	7% 15%
Economic Capital Economic IC Economic Total Comp	1,151 68 100	1,382 1 <b>56</b> 194	1,333 132 184	2,114 138 208

Note: Comp and Non-Comp expenses adjusted to eliminate LOB FX hedging residuals

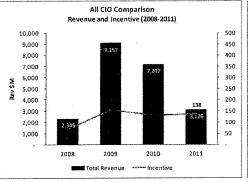
Includes MSR and BOLVCOLI

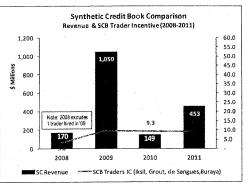
JPM-CIO-PSI-H 0002749

1964

# CIO Compensation – Revenue to Compensation Historical Lookback

CIO compensation is relatively flat over the period, and there does not appear to be a direct correlation between revenue and compensation.





### CIO Compensation - Individual Determinations

#### ■ Individual total compensation determinations

- Internal and external benchmarks (put together for this presentation) provide a reference for seat value (Tab A)
- Quantitative and qualitative assessments of performance and contribution
  - Performance reviews, though not always formally documented, consider a number of objectives and factors, including financial performance, risk management and execution of firm objectives (Tab B)
  - Input obtained from the Chief Risk Officer of CIO and other control function leads (Compliance, Legal, Audit) on senior market professionals (Tab C)
- Total compensation recommendations for the most highly-paid employees, including Macris, Martin-Artajo and Iksii, were
  reviewed by the Operating Committee and compared to others in like roles across the firm, then reviewed and approved by
  CEO of the firm and included in JPMC Highly Compensated Report provided to CMDC
- Total compensation recommendation for CIO CEO made by firm's CEO and approved by CMDC
- Compensation history for Drew, Macris, Martin-Artajo and Iksil are at Tab D

### CIO Compensation - Overall Observations

#### ■ Observations

- Review of CIO compensation indicates that both quantitative and qualitative factors, including risk management, were included
- Significant changes in annual revenue from 2008-2011 do not directly correspond to changes in total compensation or incentives
  - Total compensation is largely driven by "seat value" and thus remains relatively flat over the period
  - As JPM CIO is not directly comparable to CIO functions in other firms, external benchmarks are not readily
    available; however, blend of data from IB, AM and external positions provide reference information
- Governance processes were in place and were followed
  - Internal review of pool and individual awards by senior management across the organization (HR, Finance, Operating Committee)
  - Input and review by Risk and other control functions

### 1967

### List of Tabs

- A. Seat Value Comparisons
   B. Performance Reviews
- C. Risk & Control Feedback
- D. Individual Compensation Summaries

JPM-CIO-PSI-H 0002754

### "Seat value" comparisons

							References
	Total Com	pensation (	\$mm)				
Role	Name	2011	2010	Ref Grp	2011	2010	Comments / Other
JPM CIO 11 67	Drew	\$14	\$15	Bank ClOs	\$9.7 = \$10.1	\$10 - \$12	McLagan OC Market Survey *
		4055		inv Mgt CIO	6.8 18.1		McLagan Investor Survey
				(B Fixed Income	16.5	17.5	internal comparisons FI Mgt (Top 2) (10 Mkt Survey Range - \$13 - \$25)
				Chf. Inv. Head	9.5	10,0	Internal comparison AM Head
				Blend			MGMC Initial benchmarking: ^a 25P = 75P \$7 -\$18
International CIO	Macris	14.5	17.25	JPM Top Paid	Avg High 5.9- 12.8	Avg High 6 - 15,0	internal Sales &Trading MDs in IS (n=
				Top Paid Fixed Income	10-12.75	10.6 ~ 15	Internal - IB Fixed Income (Top 3 below IE
				AM Fixed Income Inv.	6,0	8,0	Internal - AM Fixed incomé Investment H
EMEA CIO Mgt	Martin-Artajo Iksli	10.98 6,78	12.75 7.32	EMEA IB MDs	Avg High 5.9 - 10.5	Avg High 8.0 13.3	Internal - EMEA Sales & Trading (n=2
			. N. W.	IB Fixed Income	Avg. ~ 75P 4.4 ~ 9.8 2.7 ~ 5.0		MGMC Market Survey. 5 Global FI - Trading Products MDs Global FI - All Products MDs
SCB Traders	Buraya	1,3	1.48	Wholesale	Ayg 75P	Avg 75P 1.2 - 2.2	Market: b
	Grout de Sangues	1.0 1.25	.76 .77	Front Office IM Fixed Income PMs	1.0 - 1.95 .9 1.6	1.2-2.2	1.1 1.9 (MGMC/McLagan) McLagan Survey ^b
				CPG	Avg. = 2.16 Avg. = .6	Avg. ≈ 2.23 Avg. ≈ .63	Internal – (B MDs

JPMorgan Chase & Co.

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CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

Adam, Phillipa C

Draw, Inc. 13 January 2011 13:02 Macris, Achilles O Confidential - 2010 Performance Evaluation

#### Strengths

- 1. Led International CIO to very tropic performance results with excellent leadership (especially in my appropriate and the contract of the co
- · July integrated COs presson internationally with the company's overall direction.
- Attracted and trained highly skilled professionab who can continue building out international CIO.
- Solicited feedback from the control leads who concur that in 2010, you continued to be proactive and demonstrated a high degree of sensitivity to the firm's risk management practices. You lead by example through decision making in risk management.

#### Development Areas

- Should you aspire to OO/OC role, you need to take a breader perspective of top tietion at the firm.
- To be completely successful as a potential successor you need to help drive integration and partner with
  North America.
- Work with CIO to increase understanding of scale for top of the house positions.

בא מפונו נו נוסייה:

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

#### Achilles Macris

#### Strengths:

- 2011 solid year for International CIO under Achilles' leadership
  - avoidance of major risk management errors
  - some opportunities left on the table
- Identification of risk with a strong inclusive Risk Management culture. (see code review)
- Leadership role on EMEA Management Committee; excellent on both FSA and Regulatory matters.

#### Development:

- CIO needs leadership at the top to improve internal partnership
- Achilles must strive to promote teamwork, information sharing and relationships between his
  team and NY setting the highest possible standards and pushing down the role of culture carrier
- Less reliance on staff and more intensive rigor in budget planning and expense management

### Feedback from Control Partners:

- Has created a supervisory environment which is compliance and controls-oriented
- Leads by example and sets the right tone with his team regarding compliance and control
- Is always keen to understand the regulatory environment in which the business operates
- Conducts regular risk management discussions during his weekly meetings
- Demonstrates rigor in his team meeting, reviewing each market one-by-one and quizzing PMs on their positions
- Holds quarterly close and continuous meetings with the FSA on the CiO business. Feedback from the GSA is that the CiO business under Achilles' leadership engages in an open and transparent manner, bringing issues to their attention and ensuring deep understanding
- Is highly sensitive to market risks and is very responsible to market events, drawdowns and other situations that may signal need for risk reduction
- Executes without hesitation when a reduction is agreed
- is engaged and supportive of the Risk Management team

Manager sections of this review are in 'draft' status. Employee cannot view manager's comments or ratings in Draft status,

eview Status:	in Progress						
mplovee:	Macris, Achilles (U430216)	Macris, Achilles (U490216)					
lanager:	Drew,ina R (U050924)	Drew,ina R (U050924)					
dditional Manag	er: N/A	N/A					
teview Cycle:	01-JAN-2011 31-DEC-2011	01-JAN-2011 31-DEC-2011					
eporting Year:	2011						
ob Title:	- Chief Investment Officer	- Chief Investment Officer					
enure Date:	16-JAN-2006	16-JAN-2006					
Mid Year Rating	enter experience en en entre en entre en en en en en en en en en en en en en	Year End Rating Not Rated (Draft)					
LUCAL	Performance Review - Signatu	The second second second second	e og eg er er er er er er er er er er er er er				
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Manager	Not Signed		N/A				
Employee	Not Signed  Not Signed		NA NA				
Employee Objectives are no objecti	ves for this employee.		William Zan				
Objectives There are no objection Development Plant	nemana a		## 1.20 Table 1				
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Macris, Achilles (U430216) - 2011 Performance Review

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Summary Comments	41: No. 14	i a	STATE MINE	irtu ina minutalian a ca
Employee Year End (Display) - Flo	eming, Lorraine (23-JAN	-2012)		
- excellent year in a hard market environment addition to doubting the International methodology of the Global books,  - String European contribution and partially  - People: strongest team, strong develop—Controls: outstanding feedback from the	budgets, mada a big contribut urship, have additional slide ment	on this from th	EMEA Mariagemi	ent Committee repair flat 3 - rang
Manager	on manageds li			
There are no comments available from the comments may not exist or be in draft sta				
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Discussion Tracking		May 2011	ij liga	
Discussion		. Е	mployee Confi	rm Manager Confirm
Objectives		N		N
Development/Career Plan		N		N .
Jan, Feb, Mar (Quarterly Discussion)		N		N
Apr. May. Jun (Mid Year)		N	!	N
Jul, Aug, Sep (Quarterly Discussion)			1	N
Oct, Nov. Dec (Year End)		N	ı	N
CCC NOV. DBC (1 ear E.C.)				
Attachments	are designed by the contract	AND THE	- P. 18	W 20 K 4 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7
Filename	Uploaded By	Source	D	ate
M0270401120174798700.pdf	Fleming, Lorraine	Summary	, м	on Jan 23 10:01:02 EST 2012
Monthly slides for MR Dec11.xlsx	Fleming, Lorraine	Summan	, М	on Jan 23 10:00:36 EST 2012
Global Anabasis view	Fleming, Lorraine	Summan	/ м	on Jan 23 09:59:58 EST 2012

Macris, Achilles (U430216) - 2011 Performance Review

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JPM-CIO-PSI-H 0002761

# Summary of Contribution

	2008 Actual	2007 Actual	2008 Actual	2009 Actual	2010 Actual	Dec-1
International SAA						
Carry / Sec Gains / MTM				_		
FX Capital						
Carry / Sec Gains / MTM / OCI						
Tactical						
Total return	52	444	133	2,996	1,143	1,335

 Redacted by the Permanent Subcommittee on Investigations

# Redacted By The Permanent Subcommittee on Investigations

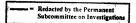
JPM-CIO-PSI-H 0002762

# CIO 2011 Financial Revenues (\$Billions)

	Int'l	NA	Global
2011 Budget	1.7	2.4	4.1
2011 Actual	3,2	0.0	3.2

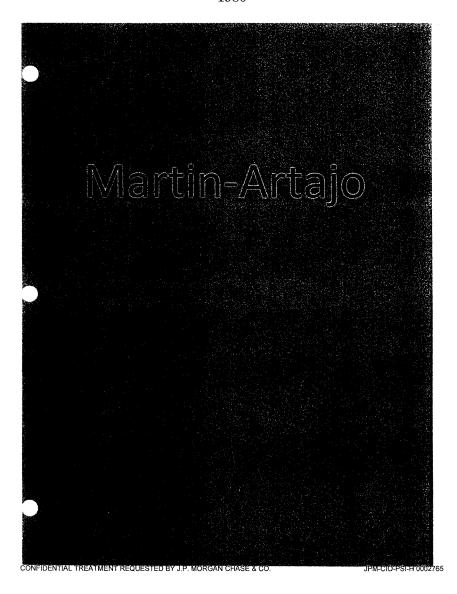
#### CIO 2011 Financial Revenues (\$Billions)

	Int'i	NA	Global
2011 Budget TAA 2011 Budget SAA	0.5 1.1 1.7	0.2 2.2 2.4	0.8 3.3 4.1
2011 Actual TAA 2011 Actual SAA	1.2 2.0 3.2	-0.2 0.2 0.0	1.0 2.2 3.2



# **Tactical Contribution**

	Dec-11
	YTD
Europe	
London Rates	
London FX	
Credit/Equity Europe	
Structural Management	
Emerging Markets	
Total Europe	
Asia	
Asia Rates	
Funds Investments Asia	
Credit/Equity Asia	
Asia Management	
Total Asia	
Credit	
Strategic	33
Tactical	14
Total Core Credit	47
Investment Credit	57
Total Credit	1,05
FX Hedging	
Exp/Rev	
Total FX Hedging	
rotat i A ricuging	
Total International	1,33
Total mediatement	1,3.



#### Rivetti, Rebecca

From: Sent: To: Subject:

Macris Achilles O Thursday, January 13, 2011 12:20 PM Rivettl, Rebecca Appraisals

#### Hi Rebecca,

I always conduct my year end appraisals with my direct: verbally as I find this allows for a better exchange of views and more honest conversation. Nonetheless I have detailed below the key themes that we discussed plus specific feedback that I have received from the Control disciplines in relation to Javier and Chris.

Best

Achilles

Javier Mourtin-Artajo.

#### Strengths

- Has developed a world class Credit risk management and Investment team in terms of personnel and results.
- Excellent risk management typified by the exceptional performance experienced in 2010 where the Strategic Credit book continued to generate a positive contribution while de-risking. Typically the experience of de-risking such a book after the very significant positive contributions in 2008 and 2009 would be one of a drawdown. In 2010 we have experienced the opporting.
- . Innovative, identifies trends in the market early and deploys capital thoughtfully and effectively.
- Has established himself as a real leader and influencer within CIO and the wider Firm. This is demonstrated by his appointment to CIO's extended management team and his interaction with other parts of the Firm such as
- Strong partner working closely with other areas of the Firm and the control disciplines within CIO.
- Good control discipline and awareness.

- Makes a huge contribution to the continuing success of CIO globally and internationally. However there are times when perhaps he needs to play a more active role in his involvement with the Europe Rates business.
- The development of Emerging Market capability is a big priority for 2011. I am looking for Javier, in partnership. with Chris, to drive the success of this.

Javier is a deep thinker and can get very immersed into the detail and technical aspects of an issue. At times he needs to step back and look at the wider picture.

## Control Feedback

- Market Risk Very aware of risk limits and good discipline. Great partner in supporting developments in improving risk analysis and understanding of positions.
- CONSIderion: A great payment will alway to the natural property the store and is above a migrative which
  approach to recognize valuation and other issue. However, it is a first of the store and a second translation is a postability of the store and a second translation.
- COO Control aware. Always acts if a control issue is escalated to him, conducts himself as a true business
  owner caring about all aspects (not just risk management) of the business. Years to implement control
  improvements and enhancements. Chairs local BCC.

Manager sections of this review are in 'draft' status. Employee cannot view manager's comments or ratings in Oraft status.

Review Information		
Review Status:	In Progress	
Employees	Martin-Artajo,Javier (I016308)	
Manager:	Macris,Achilles (U430216)	
Additional Manage	r: N/A	
Review Cycle:	01-JAN-2011 31-DEC-2011	
Reporting Year:	2011	
Job Title:	Head Portfolio Manager	
Tenure Date:	25-JUL-2005	
Mid Year Rabriq Not Rated (Draft)	Yess End Retting Not Rated (Draft)	A trial
Finalize Year End.	Performance Baview Signature Section	16.984
User	Signature	Date
Manager	Not Signed	N/A
Employee	Not Signed	N/A
Development Plan There are no develop Manager's Comme	ment plan goals for this employee.	
Career Plant State		
Career Gosl		Term
There are no career o		
Manager Commen	25	
Strengths 2 Copos	funities sais.	
comments may not ex		
Manager		
There are no commen comments may not ex-	ts available from the manager(s); ist or be in draft status.	

Martin-Artajo.Javier (1018308) - 2011 Performance Review

Page 1 of 3 JPM-CIO-PSI-H 0002768

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

mployee Year End (Display) - Fleming, Lorraine (07-FEB-	2012)	
Responsabilities		
tanagement of all EMEA (London) Portfolios and Portfolio Managers		
reas of improvement		
mprove communication of our Asset Management decisions and speed	of this communication with NY	
nprove the overall communication process in EMEA from bottom up pr	ocess so that we build that culture acros	ss all Portfolio Managers
nprove Risk Management infrastructure and Risk Control environment	given the new SAA framework	•
Strengths		
-		
ong term track-record in Investment Management. In Credit Portfolios		
ong term track-record in building cohesive high-performance Teams		
lighly quantitative approach to decision making		
Other secondary responsabilities		
Other Securitary responses		
Member of the Diversity Committee Worldwide		
Member of Leadership Initiatives across EMEA  Mentor of ten key junior future leaders EMEA		
Manager Year End (Display) - Fleming, Lorraine (67-FEB	.2012\	
Javier is one of the best investors I have ever worked with, Out of the		of everyone else, ones into
the details and the results show themselves		, ,
I would like Javier to take more leadership as he Heads up EMEA - tal	ke more control, represent his knowledg	ge, dictate the agenda more
Market Risk Feedback:		
Javier is responsible for a group of PMs who together manage a signif	ficant amount of risk for CIO. Risk contr	of its important to Javier, an
he frequently intrajes discustions with Historia its very responsive to	nsk issues Javan 1977 Turkey	Comp. Concept. C. Concept. Concept.
Discussion Tracking	San State of the Control of the Cont	en en en en en en en en en en en en en e
Discussion	Employee Confirm	Manager Confirm
Objectives :	N	N
Development/Career Pfan	N	N
Jan, Feb, Mar (Quarterly Discussion)	N .	N
Apr May Jun (Mid Year)	N	N

Martin-Arta/o_lawler (I019308) - 2011 Performance Review

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

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Jul, Aug, Sep (Quarterly Discussion)	***************************************	N	N	
Dot, Nov, Dec (Year End)		N	N.	
Attachments				
AHACHINERES				

Martin-Artaio Javier (K18308) - 2011 Parformance Baylor

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

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CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

JPM-CIO-PSI-H 0002771

Menager sections of this review are in 'draft' status. Employee cannot view manager's comments or ratings in Draft status.

Review of the sales	
Review Status:	In Progress
Employee:	Iksil, Bruno Michel (0014921)
Manager:	Martin-Artajo,Javier (1016308)
Additional Manager:	N/A
Review Cycle:	01-JAN-2009 31-DEC-2009
Reporting Year:	2009
Job Title:	Head Portfolio Manager
Tenure Bate:	20-JUN-2005

Year in the state of the state	
Net Bated (Death)	

Finalized eart address	rmanced eview Signature Sec	Son Harris	MARKET PIECE	- CANADA CO
User	Signature	t is a	4.7	Date
Manager	Not Signed			N/A
Employee	Not Signed			N/A

Objective	Measures/Target Dates
downsize and reduce the legacy exposures contained in the credit derivatives strategic 2004. 60	Total absolute notional, Var, Strass test results the planned reduction was to reduce the book by 30-50%, get the Var back to 70M and maintain acceptable stress test results. Targe Date: end of Q3
Employee Accomplishments	
the target is achieved quantitatively even if the path followed has be	en rocky,
Manager Comments	
Manager Comments  Employee Bating	Manager Hating

Objective State of the Control of th	Measures/Target Dates
ontribute to improve the risk and P&L reporting	one report for P&L daily, fisk daily, and deleveraging process ( weekly). No target Data : as soon as possible. This is an ongoing process
imployee Accomplishments	
advised on all these reports and monitored the relevance of	f the numbers.
Manager Comments	

Iksii.Bruno Michel (0014921) - 2009 Performance Review

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Moets Expectations (High Meets)		Not R	nted	
objective (State of State of S				
Objective Measures/Target Dates				
help in designing new trade ideas	help in designing new trade ideas no specific measure.			
Employee Accomplishment	\$2.50			21
I provided some original views.				
Manager Comments			1.11	
		,		
Employee Rating		Mana	ger Rating	
Meets Expectations (High Meets)	L	Not R	ated	
Development 2 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to				
Development Goal - Not Started	Actions/Resources		Progress	
expand trading activity to other	1- keep reducing exposure in cred	fit	book downsizing ne	eds to ga further
asset classes	markets 2- develop exposure to rates, FX		no trade yet in other	asset classes
	equity markets on modest size	2110		
Manager's Comments	and profit to the second			
			alet y Mari	Comments and the second
Career Goal	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	100		Term
	o agency" from the cross asset trad			Medium Term (12-36 months)
develop a cross asset trading de				Short Term (0-12 months)
	ter" where people come to "learn" at	ooul tra	ding fear and greed	Long Term (36+ months)
through price discovery.				L
Manager Comments				
To the second second		- TAKE		AT AND THE A STREET BOOK OF THE
Strengths & Opportunities		100	Desiration (1945)	
	y) – licsil, Bruno. (89-NOV-200	3)	· · · · · · · · · · · · · · · · · · ·	
<ul> <li>ability to gather market intelligent</li> <li>ability to "think" one or two trade</li> </ul>				
- ability to define strategies and trade ideas independently				
Employee Opportunity (Dis	play) – Iksil, Bruno (09 NOV-	2009)		
be less raive about some playe				
- be more systematic in executing	the plan			
Manager				
There are no comments available from the manager(s); comments may not exist or be in draft status.				
TO THE THE PARTY OF DESIGN				<del></del>
Summary Comments	AND CHEST	44		Control of the second control
Employee (Display) - Iksil,	Bruno (89-NOV-2009)			
The first quarter was a particular	y challenging moment where I did n	ot pay	enough care to what	market players would do when i slarted
Iksii. Bruno Michel (O014921) - 20				

reducing the positions. Thanks to the support of my managers all along the way, this experience turned out to be a very profitable exercise
in many respects:
1- I learned a lot in quite exceptional conditions on "how to manage very large positions"
2- I learned to select counterparties depending on what they could do and what they wanted to do.
3- i learned that deleveraging is also an art, as much as building a book and a P&L can be,
Manager
There are no comments available from the manager(s);
comments may not exist or be in draft status.

Discussion tracking Statement Asset Team 1997		
Discussion	Émployee Confirm	Manager Confirm
Objectives	Y (09-NOV-2009)	N
Development/Career Plan	Y (09-NOV-2009)	N .
Jan. Feb, Mar (Quarterly Discussion)	N	N
Apr, May, Jun (Mid Year)	N .	N
Jul, Aug, Sep (Quarterly Discussion)	N	N
Oct, Nov, Dec (Year End)	Y (09-NOV-2009)	N

Attachments with the first of	out to the		La rediction in the Control of the C
Filename	Uploaded By	Source	Date
Them are no attachments to this performance moley.			

Iksil, Bruno Michel (0014921) - 2009 Performance Revie

Page 3 of 3 JPM-CIO-PSI-H 0002774 Manager sections of this review are in 'draft' status. Employee cannot view manager's comments or ratings in Draft status.

teview information			STATE OF	
ieview Status:	in Progress			
mployee:	Iksii,Bruno Michel (0014921)			
lanager:	Martin-Artajoulavier (1016308)			
dditional Manager:	N/A			
eview Cycle:	01-JAN-2010 31-DEC-2010			
leporting Year:	2010			
ob Title:	Head Portfolio Manager			
enure Date:	20-JUN-2005			
ear End Rabing				
A STATE OF S	crosmanic el Review Signature Sectio	MANAGE CARE	Salaten S	
Jser	Signature:	<u> </u>	Date	
lanager	Not Signed		N/A	
mployee	Not Signed		N/A	
Objective # 000 000 000 000 000 000 000 000 000		Measures/Tarqet Dates	Secretary Welginson	
educe the notional, the	Ver and other risk metrics	<u> </u>		
Employee Accompli	shments	·	· · · · · · · · · · · · · · · · · · ·	
The risks in the book has Manager Comments	ve decreased although some others increase	d, Overall the Book is much safer and m	ore balanced.	
Employee Rating		Manager Rating		
Not Rated		Not Rated		
Objective 12% seem			Weight 0	
Objective		Measures/Target Dates		
achieve a positive P&L a process	und avoid drawdowns. In the deleveraging			
Employee Accompli				
	merically yet notionals have remained high o	due to the lack of liquidity in credit deriva	fives markets.	
Manager Comments				
Employee Bating		Manager Dating		

iksii.Bruno Michel (O014921) - 2010 Performance Review

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Objective	Measures/Target Dates	
devalop a new strategy on equity markets	<u> </u>	
Employee Accomplishments		
target achieved for this year aftitough many development are still to leave to these markets.	oe done on the infrastructure side, We	also need to get more
Manager Comments		
Employee Bating	Manager Rating	
Not Rated	Not Rated	

Development Goal - In Progress	Actions/Resources	Progress
analyze the experience of the past 4 years and start up a trading group, listen to others' feers and greed	1-build a trading group based on tactical parsonal views 2-mergo the views into a set of 'tail' event'options that will help observe how everyone feels with the risks taken 3-build a cross asset portfolio to access many possible liquid matriets	1- the group exists but the process of capital ellocation is no yet in place.  - the "fall execut" positions exist but overwholin the tactical trades.  - the portfolio spans already from rates to equity via credit; yet them is not yet a self-conteined approach.

Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career Part 1977 Annual Career		
Career Goal	Tenn	
Short term, I wish to build this group and learn how to support the ideas of my colleagues Longer term, I think this way of priviledging "tall event" trades could become a "tradeable currency" in the form of "fund shares".	Medium Term (12-36 months)	
Manager Comments		

Strengtin 200pportunite 2 A State 20 Sas	
Employee Strength (Draft) – Iksil, Bruno (23-NOV-2010)	
bight risk management and p&L control even in volatile markets	
Employee Strength (Draft) - Iksil, Bruno (23-NOV-2010)	
trading skills to capture either short term opportunities or market driven "tail event" trades	
Employee Opportunity (Braff) - Iksil, Bruno (23-NOV-2010)	
improve the build up and the downsizing of the trades	
Manager	
There are no comments available from the manager(s);	
community was and exist or be in droft status	

1	Summary Comments & Court State
1	Employee Year End (Draft) - Boil, Bruno (23-NOV-2010)
	this year was very quiet despite all the numblings in the credit markets. I worked under many constraints and did many "bad trades", le
-	trades that were bad econimically. Yet this has allowed to maintain a very stable P&L and ultimately be able to profit from extreme
-	volatility.

iksii.Bruno Michel (0014921) - 2010 Performance Review

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- Hearnt why and when to cut or "give back" a trade in order to re-enter at a better poin	t in time
- I learnt how to mitigate risk reduction, notional reduction in a market that did not provi	de llouidty
- I learnt how to wait and create the opportunities to reduce the book in an unsupportive	B Brivironment
All this was very humbling. I could have done much better, with hindsight; yet the rest	ult is noori
Manager	·
There are no comments available from the manager(s):	
comments may not exist or be in draft status.	

Discussion macking and a figure		23.36
Discussion	Employee Confirm	Manager Confirm
Objectives	N	N
Development/Career Plan	N	N
lan, Feb, Mar (Quarterly Discussion)	N	N N
Apr, May, Jun (Mid Year)	N	N
lul. Aug. Sep (Quarterly Discussion)	N	N
Oct, Nov. Dec (Year End)	N	N N

Attachments	460 4 .co .7	to de Marie	G - 15 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -
Filename	Uploaded By	Source	Date
There are no attachments to this performance	review.		

iksii,Bruno Michel (O014921) - 2010 Performance Review

Manager sections of this review are in 'draft' status. Employee cannot view manager's comments or ratings in Draft status.

Review Status:	in Progress
Employee:	Hisli, Bruno Michel (0014921)
Manager:	Martin-Artajo, Javier (I016308)
Additional Manager:	N/A
Review Cycle:	01-JAN-2011 31-DEC-2011
Reporting Year:	2011
Job Title:	Head Portfolio Manager
Tenure Date:	20-JUN-2005

Hid year Raining Transport Street Street Street	Year End Rating
Not Rated (Draft)	Not Rated (Draft)

Finalize Year End Peru	rmancel Review Skinature Section	Laborate Co.
User	Signature	Date
Manager	Not Signed	N/A
Employee	Not Signed	N/A

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Objective	Measures/Target Dates
reduce the risks ( VAFI, RWA market risks) and of	BETTISK METRICS . TIVA COWN from 658th to 308th
Employee Accomplishments	
The overall riskyness of the book was greatly reduvolatility in the markets. But the P&L of the book ha	ced in every measures, the Var increased mostly due to materially increased realized as been less and less volatile outright.
Manager Comments	
Employee Rating	Manager Rating
Meets Expectations (High Meets)	Not Rated

Objective	Measures/Target Dates
achieve a positive P&L and avoid drawdowns. In the deleveraging process	P&L was expected to be flat to negative, it is positive
Employee Accomplishments	
	ch allowed to de-risk the book while locking gains despite the limited
the book has been turned over in some places at the right time, while liquidity.  Manager Comments	th allowed to de-risk the book while locking gains despite the limited
liquidity	th allowed to de-risk the book while locking gains despite the similed

Iksiī,Bruno Michel (O014921) - 2011 Performance Review

Page 1 of 3 JPM-CIO-PSI-H 0002778

3uild factical strategies between		Mea	sures/Target Dates		
	Build tactical strategies between credit and equity markets		Eric Ds Sangues and I built trading strategies that generated regular income despite the very high votatility. P&L is close to 60M for 8M var.		
mployee Accomplishment					
designed an alternative strategy to panic; it protected fully the tact	to what eric did, although being in tical books.	the sa	me "spirit". It proved very robust especially when market started		
Manager Comments			38 Photos		
Employee Rating		Man	ager Rating		
xceeds Expectations		Not F			
evelopments by a second			VICTOR OF THE PARTY OF THE PART		
Development Goal - Not Started	Actions/Resources	12 1 2 July 1	Progress		
Deploy trade design capabilities on derivatives markets	build trading systems spreadign to credit to equity, bands and FX	rom	Credit & equity markets are actively traded together. Bond markets are target for next year. Trading on FX should start on a small scale.		
Manager's Comments					
dasses  Lanager Comments	and managing market stress risks	ata pr	Medium Term (12-36 months)		
nengins & Opportunite 2	The state of the s				
	Iksil, Bruno (16-NOV-2011)				
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	from the manager(s);		<u> </u>		
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omments may not exist or be in o	rafi status.	un en			
amments may not exist or be in a					
comments may not exist or be in or the mass of comments. Imployee Year End. (Draft) - ne year was qualitatively very go	- Jiksil, Bruno (16-NOV-2011) od under the market stress and und	certaint	y Quantitatively it has been less satisfactory due to the		
	- Jiksil, Bruno (16-NOV-2011) od under the market stress and und	certaini	/. Quantitatively it has been fees setisfactory due to the		
comments may not exist or be in or imployee Year End (Draft) - he year was qualitatively very goo offeneck created around the RW	- Rissil, Birumo (16-NOV-2011) od under the market stress and und A measure.	certaint	/ Quantitatively it has been less satisfactory due to the		

Discussion	Employee Confirm	Manager Confirm
Objectives	Y (16-NOV-2011)	N
Development/Career Plan	Y (16-NOV-2011)	N
Jan. Feb, Mar (Quarterly Discussion)	Y (16-NOV-2011)	N
Apr, May, Jun (Mid Year)	Y (16-NOV-2011)	N
Jul. Aug. Sep (Quarterly Discussion)	Y (16-NOV-2011)	N
Oct. Nov. Dec (Year End)	Y (16-NOV-2011)	N

Affactiments		1000年	
Filename	Uploaded By	Source	Date
There are no attachments to this performance	neview.		

lksii,Bruno Michel (0014921) - 2011 Performance Review

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CIO MRT Feedback - All MDs 1.3.11

Reviewer Group	Reviewer Name	Revieweo Namo	Tier 1	Comment
F				Achilles has created a supervisory environment which is compliance-friendly and
	ı	i		controls oriented; his learn is always keen to understand the requisitory environment
Compliance Reviewer	James Wilson	Achiñes Macris	Tier 1 - Direct	which they operate.
	1	<b>!</b> •		
	ı	1	1	Full and frank dialogue during weekly meetings; 2. Risk management and discussion
	1		1	on portfolio risk and return are held on a forward looking basts, 3. There are quarterly
	1		1	close and continuous meetings with the FSA on the CtO function - feedback from the
	1			FSA is that the CIO business deal with the regulator in an open and transparent way,
	1	1	1	bringing issues to their attention and ensuring they have a good understanding of the
Compliance Reviewer	Bally Dewar	Achilles Macris	Ther 1 - Direct	business and its risks, and how they are being managed.
		1	1	Achilles is highly sensitive to market risks and very responsive to market events, drawdowns, and other situations that may signal need for risk reduction. When s
	į.	1		drawdowns, and other satistions that may signal need for tisk reduction. When is irreduction is agreed, he executes without healton. In his management team meeting
	1			he is very thorough, reviewing each market one-by-one and quizzing PMs on their
	Peter Welland	Achilles Macds	Time 4 Direct	positions. He is engaging and supportive with the Risk learn.
Market Risk Reviewer Compliance Reviewer	Nella Radin	Ana Capella Gomez-Acebo	( ier 3 - Oirect	positions. The is engaging and supportive with the rusk seam.
Compliance Reviewer	Smith Michael	Ana Capella Gomez-Acebo	<del></del>	
Compilation Reviews:	ORIGIN MICHES	Alia Capata Gollez-Acado		
Compliance Reviewer	Robert Cole	Ans Capella Gomez-Acepo	1	
Market Risk Reviewer	Peter Welland	Ana Capella Gomez-Acebo		
		1.		
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Compliance Reviewer	James Wilson	Anthony Brown		
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	L		1	
Market Risk Reviewer	Peter Welland	Anthony Brown		
Compilance Reviewer	Robert Cole	Anthony Paquette		
	i	1	1	
Market Risk Reviewer	Peter Welland	Anthony Paquatta	1 .	
Compliance Reviewer	James Wilson	Bruno Iksii		No comment - No notable feetiback
Comprance reviews	Carries Transa			Bruno is responsible for a large portion of CIO's MTM risk. He displays a deep
		1	1	understanding of the market and full ownership of the positions, and he is very aware
		1	ł	of the various risk measures and their implications. He is very open and good at
	Ì		1	communicating the risks of his book, and very focused on managing the various type
Market Risk Reviewer	Peter Welland	Bruno (ksii	1	and levels of risk.
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Compliance Reviewer	Smith Michael	Greg O'Hera	Tier 1 - Direct	
Multiplianing Lagarday	- Politica de la constanti		1	
Compliance Reviewer	Robert Cole	Greg O'Hara	Tier 1 - Direct	
- A Millian I JANUARA		7-24-7-1000		
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Compilance Reviewer	Nella Radin	Greg O'Hara	Tier 1 - Direct	

Reviewer Group	Reviewer Name	Roviewee Name	Tior 1
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Market Risk Reviewer	Peter Welland	Greg O'Hara	Tier 1 - Direct
Compliance Reviewer	James Wilson	Derren Walker	
Market Risk Reviewer	Peter Welland	Darren Walker	
Compliance Reviewer	James Wilson	George Polychronopoulos	
Market Risk Fleviewer	Peter Weiland	George Polychronopoulos	
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Compliance Reviewer	Robert Cole	Hamilton Reiner	
Market Risk Reviewer	Peter Welland	Hamilton Reiner	
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Compliance Reviewer	Robert Cole	Irene Tse	Tier 1 - Direct
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Market Risk Reviewer	Peter Welland	irene Tse	Tier 1 - Direct
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Compliance Reviewer	Nella Radin	Richard Sabo	Tier 1 - Direct
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Market Risk Reviewer	Peter Welland	Richard Sabo	Tier 1 - Direct
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Compliance Reviewer	Christopher Charnock	Christopher Shiu Lun Chan	Tier 1
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Market Risk Reviewer	Peter Welland	Christopher Shiu Lun Chan	Tier 1
Compliance Reviewer	James Wilson	James Douglas	
Market Risk Reviewer	Peter Welland	James Dougles	
MILITARY (301/2112)			
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	Robert Cole	Chung-Eun Lee	Tier t
Compliance Reviewer	Inches cond	Charles and the control of the contr	
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Market Risk Reviewer	Peter Wolland	Chung-Eun Lee	Tier 1
Market FUER REVIEWER	Traver repositor		
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Compliance Reviewer	James Wilson	Javier Martin-Artejo	Tier 1
Compliance Reviewer	Robert Cole	Jingwen Zheng	
Market Risk Reviewer	Peter Welland	Jingwen Zheng	
Mariner / Con The Victor			
Compliance Reviewer	Robert Cole	Jonathan Horowitz	
Service Contractor			
	I	Jonethan Horowitz	1
Market Risk Reviewer	Peter Welland		
Market Risk Reviewer	Peter Weiland Robert Cole	Kevin Hurley	
Market Risk Reviewer Compliance Reviewer Market Risk Reviewer			

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# CIQ MRT Feedback - All MDs

		Reviewee Name	Her 1	Composi
Reviewer Group	Reviewer Name	Reviewee Name	11014	Gumman
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	S	Managha Bank	1	ľ.
Market Risk Reviewer	Peter Welland	Menashe Banit		<del>-</del>
	· 1	Į.	į.	Full and frank dialogue during weekly meetings; 2, Risk management and discussions
	1	1	1	on portfolio risk and return are held on a forward looking basis. 3. There are quarterly
				close and continuous meetings with the FSA on the CIO function - feedback from the
	1		ı	FSA is that the CIO business deal with the regulator in an open and transparent way,
	1		- 1	bringing issues to their attention and ensuring they have a good understanding of the
	Sally Dewar	Javier Martin-Artalo	Tier 1	business and its risks, and how they are being managed.
Compliance Reviewer	Sally Dewar	Davies Marini-Acreso	1100	Javier is responsible for a group of PMs who together manage a significant amount of
	1		- 1	risk for CiO. Risk control is important to Javier, and he frequently initiates discussions
is a second property of the second	Date Mond	Javier Martin-Artalo	Tier 1	with Risk and is very responsive to risk issues.
Market Risk Reviewer	Peter Welland	DEANK WINNESSAMO	1180.1	Mild See and a var responsition to the second
	1	1 .	[	
i	1	l	L	No comment - No notable feedback
Compliance Reviewer	Robert Cole	Irvin Goldman	Direct	No comment - No notable feedback
Market Risk Reviewer	Peter Welland	Irvin Goldman	UNIOC	Lan Costillatif - Ing Lowers (earloan)
Compliance Reviewer	Christopher Chamock	Nacki Iwami		······································
Market Risk Reviewer	Peter Welland	Naoki tvami Nastash Kumar		
Compliance Reviewer	Neta Radin Pater Welland	Neetech Kumar		•
Market Risk Reviewer	Peter Welland	MOGRETI NURTHER	<del></del>	<del></del>
	1	1		
	Neils Radin	Norma Corio	1 .	
Compliance Reviewer Compliance Reviewer	Smith Michael	Norma Corio		-
Compliance Reviewer	SHRIR MICHAEL	POSITIA COSO		- A
	Robert Cole	Norma Corio	-1	- ateu
Compliance Reviewer	Robert Cole	Fromis Colo		Redacted by prommit
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	1	Ī	1	1.51
	Peter Weiland	Norma Corio	1	by and
Market Risk Reviewer Compliance Reviewer	James Wison	Pairick Hagan		- 1 commi
Comptance Reviewer	Peter Weiland	Patrick Hagan		- Cupco-
Compliance Reviewer	Christopher Chamock	Rayson Kun Kwok Chung		- I July sons
Jompsance Reviewer Varket Risk Reviewer	Peter Welland	Rayson Kun Kwok Chung		anentations
Compliance Reviewer	Nella Radio	Renea Kelly		norman octivation
Verket Risk Reviewer	Peter Welland	Renea Kelly		Reuby by Permanent Subcommit on Investigations
Compliance Reviewer	James Wilson	Taksahi Makita		30 111
Jompsance Reviewer Market Risk Reviewer	Peier Welland	Takashi Makits		
	James Wilson	Tolga Uzuner		
Compliance Reviews: Market Risk Reviews:	Peter Welland	Tolga Uzuner		
Aerket Rusk Reviewer Compliance Reviewer	Noils Radin	Walter Kress Jr		
Aarket Risk Reviewer	Peter Weiland	Walter Kress Jr		
	Robert Cole	Wenty Huang		<del>- </del>
Compliance Reviewer	Strooget cost	LAARLIA LAMBER 1		

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Reviewer Group	Reviewee Name	Comment
		Redacted By
Compliance Reviewer	Anthony Brown	•
		Permanent Subcommittee on Investigations
tarket Risk Reviewer	Anthony Brown	
INTERNATIONAL	Parallelly Brown	
compliance Reviewer	Bruno Iksii	No comment - No notable feedback
		Bruno is responsible for a large portion of CIO's MTM risk. He displays a deap understanding of the market and full ownership of the positions, and he is very aware of the verticus risk measures and their implications. He is very open and good at communicating the risks of his book, and very focused on managing the various types
Aarket Risk Reviewer	Bruno ikali	and levels of risk.
		Redacted By
Compliance Reviewer	Christopher Shiu Lun Chan	
Market Risk Reviewer	Christopher Shlu Lun Chan	Permanent Subcommittee on Investigations
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	L	
Compliance Reviewer  Anrket Risk Reviewer	Darren Walker	<del> </del>
Iarket Kisk Keviewer	Darren vvaker	<del>-</del>
Compliance Reviewer	George Polychronopoulos	
farket Risk Revlewer	George Polychronopoulos	i.
	-	
compliance Reviewer	James Douglas	
farket Risk Reviewer	James Douglas	
Namalianaa Bardaniaa	Javier Martin-Artaĵo	No comment - No notable feedback
Compliance Reviewer	Javier Marun-Artajo	Javier is responsible for a group of PMs who together manage a significant amount of
		risk for CIO. Risk control is important to Javier, and he frequently initiates discussions
Aarket Risk Reviewer	Javier Martin-Artajo	with Risk and is very responsive to risk issues.

Reviewer Group	Reviewce Name	Comment
Compliance Reviewer	Menashe Benit	Redacted By
	Menashe Banit	Permanent Subcommittee on Investigations
Market Risk Reviewer	Meussie Datur	
Compilance Reviewer	Naoki Iwami	
Market Risk Reviewer	Nacki Iwami	
Compliance Reviewer	Patrick Hagan	No comment - No notable feedback
Market Risk Reviewer	Patrick Hagan	No comment - No notable feedback
Compliance Reviewer Market Risk Reviewer	Rayson Kun Kwok Chung Rayson Kun Kwok Chung	
Market Visk Keniewei	(Nayson Run Ithok Onbig	Redacted By
Compliance Reviewer	Takashi Makita	Permanent Subcommittee on Investigations
Market Risk Reviewer	Takashi Makita	
Compliance Reviewer	Tolga Uzuner	
Market Risk Reviewer	Tolga Uzuner	

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

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Total Compensation History

	Performance Year					
	2011	2010	2009			
Salary	\$750,000	\$500,000	\$500,000			
Cash IC	\$4,700,000	\$5,000,000	\$2,000,000			
RSU	\$7,050,000	\$7,500,000	\$9,500,000			
# RSUs	198,006	169,358	219,933			
SARs	\$1,500,000	\$2,000,000	\$1,500,000			
# SARs	168,729	153,847	100,000			
W =7 11 t=						
TC	\$14,000,000	\$15,000,000	\$13,500,000			

Achilles Macris

Total Compensation History

	Performance Year				
	2011	2010	2009		
Salary	\$756,000	\$524,000	\$245,000		
Cash IC	\$2,630,000	\$3,346,000	\$5,898,000		
FSA Retained	\$2,630,000	\$3,346,000	\$0		
RSU	\$3,645,000	\$4,019,000	\$8,847,000		
FSA Deferred	\$4,245,000	\$5,019,000			
# RSUs	102,379	90,760	204,816		
SARs	\$600,000	\$1,000,000	\$3,000,000		
# SARs	67,492	76,923	200,000		
тс	\$14,506,000	\$17,254,000	\$17,990,000		

Achilles Macris

**Total Compensation History** 

	Performance Year					
	2011	2010	2009			
Salary	\$756,000	\$524,000	\$245,000			
Cash IC	\$2,630,000	\$3,346,000	\$5,898,000			
FSA Retained	\$2,630,000	\$3,346,000	\$0			
RSU	\$3,645,000	\$4,019,000	\$8,847,000			
FSA Deferred	\$4,245,000	\$5,019,000				
# RSUs	102,379	90,760	204,816			
SARs	\$600,000	\$1,000,000	\$3,000,000			
# SARs	67,492	76,923	200,000			
тс	\$14,506,000	\$17,254,000	\$17,990,000			

Javier Martin-Artajo

Total Compensation History

	rotti obinponoation meterj				
	Performance Year				
	2011	<u>2010</u>	<u>2009</u> \$215,000		
Salary	\$756,000	\$491,000			
Cash IC	\$1,965,000	\$2,453,000	\$4,900,000		
FSA Retained	\$1,965,000	\$2,453,000			
RSU	\$2,748,000	\$2,930,000	\$7,350,000		
FSA Deferred	\$3,148,000	\$3,680,000			
# RSUs	77,178	66,165	170,159		
SARs	\$400,000	\$750,000	\$2,250,000		
# SARs	44,995	57,692	150,000		
TC	\$10 982 000	\$12,757,000	\$14.715.000		

Bruno Iksil

Total Compensation History

	Total Compendation Thotal				
	Performance Year				
	2011	2010	2009		
Salary	\$429,000	\$318,000	\$187,000		
Cash IC	\$1,267,000	\$2,540,000	\$2,166,000		
FSA Retained	\$1,267,000				
RSU	\$1,900,000	\$3,810,000	\$3,249,000		
FSA Deferred	\$1,900,000				
# RSUs	53,365	86,034	75,218		
SARs	\$0	\$650,000	\$600,000		
# SARs	-	50,000	40,000		
тс	\$6,763,000	\$7,318,000	\$6,182,000		

Adam, Phillipa C

From: Sent; To: Subject:

Drew, Ina 13 January 2011 13:02 Macris, Achilles O Confidential - 2010 Performance Evaluation

#### Strengths

- Lad international CIO to very strong performance results with excellent leadership (especially in my absence) and decision making in risk management.
- Fully integrated CIOs mission internationally with the company's overall direction.
- Attracted and trained highly skilled professionals who can continue building out international CIO.
- Solicited feedback from the control leads who concur that in 2010, you continued to be proactive and demonstrated a high degree of sensitivity to the firm's risk management practices. You lead by example through decision making in risk management.

#### Development Areas

- Should you aspire to CIO/OC role, you need to take a broader perspective of top tier pay at the firm.
- To be completely successful as a potential successor you need to help drive integration and partner with North America.
- Work with CIO to increase understanding of scale for top of the house positions.

Manager Confirm

eseun ueßrowar

Wil	 	è	٤.	

From: Sent: To: Subject:

Drew, Ina Thursday, January 13, 2011 6:43 AM Wilmot, John Confidential - 2010 Performance Evaluation

## Strengths

- Has had a very successful year in P&L generation through COLI, BOL! and Private Equity Investments.
- Developed Ana to a point where he can successfully move to the CFO role without business interruption.
- Heavily relied on for judgment throughout the year on multiple issues.

#### Development Areas

- In CFO role it will be extraordinarily important to over communication with both me and the entire team in order to be successful.
- Develop complete transition plan for all tasks that Ana will not take to SIG.

Employee Confirm

Manager Confirm

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

JPM-CIO-PSI-H 0002800

# Weiland, Peter

From: Sent: To: Subject:

Drew, Ina Monday, January 10, 2011 4:44 PM Weiland, Peter Confidential - 2010 Performance Evaluation

## Strengths

- Has developed the CRO role and started building out appropriate risk management capabilities across CIO.
- Begun successful integration of CRO into firm wide processes.
- Has hired and filled out CIO Risk Management team

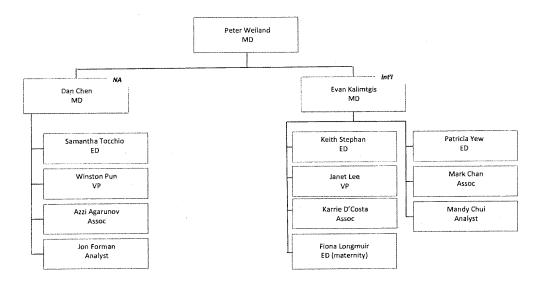
## Development Area

- Must drive the CIO CRO risk management capabilities to a high-level of sophistication and depth.
- Must make more independent decision on marginal risk requirements now that you have had time to understand how the division functions.
- Should use empowered seat to initiate discussions with front office without my instructions.

Employee Confirm

Manager Confirm

# **CIO RISK MANAGEMENT TEAM**

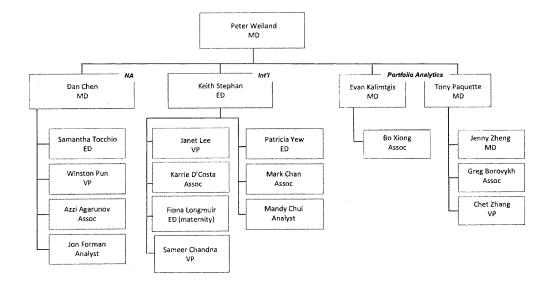


Effective Pre-June 2011

11

2011

# **CIO RISK MANAGEMENT TEAM**



Effective June 2011 – January 2012

12

# Distribution List Membership Around March 2012

- EOD Credit estimate:

  Buraya, Luis
  DeSangues, Eric

  - Drew, Ina Enfield, Keith
  - Goldman, Irvin
  - Grout, Julien Hagan, Patrick
  - Iksil, Bruno
  - Hughes, Jason
  - Lee, Janet
  - Macris, Achilles
  - Martin-Artajo, Javier
  - Patel, Samir
  - Polychronopoulos, George
  - Renshaw-Lewis, Philip
  - Tocchio, Samantha

  - Tse, Irene Stephan, Keith
  - Weiland, Peter
  - Wilmot, John

- CIO P&L Team:

  Buraya, Luis
  DeSangues, E DeSangues, Eric
  - Enfield, Keith
  - Grout, Julien
  - Iksil, Bruno
  - Martin-Artajo, Javier
  - Patel, Samir
  - Polychronopoulos, George Stephan, Keith

From: Drew, Ina <Ina.Drew@jpmorgan.com>

Mon, 23 Jan 2012 22:57:26 GMT Sent:

To:

MRM Reporting <nrm.reporting@jpmchase.com>; Weiland, Peter </p MRM CIO Global <a href="MRM_CIO_Global@restricted.chase.com">MRM CIO Global <a href="MRM_CIO_Global@restricted.chase.com">MRM External Reporting</a>
<a href="MRM_External_Reporting@jpmchase.com">MRM External Reporting</a>
<a href="MRM_External_Reporting@jpmchase.com">MRM External_Reporting@jpmchase.com</a>
<a href="MRM_Firmwide_Reporting@jpmcrgan.com">MRM Firmwide_Reporting@jpmcrgan.com</a>
<a href="MRM_FIRMW

CC:

Subject: Re: ACTION NEEDED: CIO Global 10Q VaR Limit One-off Limit Approval

Approved

From: MRM Reporting
To: Welland, Peter; Hogan, John J.; Drew, Ina
Co: MRM CIO Globa; Doyle, Robin A.; MRM External Reporting; Intraspect - LIMITS; MRM Firmwide Reporting
Sent: Mon Jan 23 15:46:19 2012
Subject: ACTION NEEDED: CIO Global 10Q VaR Limit One-off Limit Approval

Pete/John/ Ina,

This email is to request for your approval to temporarily increase the following Level 1 CIO - Global - 10Q VAR limit from \$95mm to \$105mm until January 31, 2012.

CIO 95% VaR has become elevated as CIO balances credit protection and management of its Basel III RWA. In so doing, CIO has increased its overall credit spread protection (the action taken thus far has further contributed to the positive stress benefit in the Credit Crisis (Large Flattening Sell-off) for this portfolio which has increased from +\$1.4bn to +\$1.5bn) while increasing VaR during the breach period.

Action has been taken to reduce the VaR and will continue. In addition, CIO has developed an improved VaR model for synthetic credit and has been working with MRG to gain approval, which is expected to be implemented by the end of January.

The impact of the new VaR model based on Jan, 18 data will be a reduction of ClO VaR by 44% to \$57mm

If more information is required, please let us know and we will arrange to provide further details.

Limit	Description	Limit Type	Limit Value	Proposed One-Off Limit	Proposed Expiration	Approvers
38589	CIO - Global - 10Q VAR	Level 1	95,00,000	105,000,000	1/31/2012	Peter Weiland, John Hogan, Ina Drew

Upon receipt of your approval, the above proposed limits will be effective January 20, 2012.

If you approve of the above limit changes, please <u>reply to all</u> with your approval. Thank you.

Confidential Treatment Requested by JPMORGAN CHASE & CO.

JPM-CIO 0003702

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

Zubrow, Barry L <barry.l.zubrow@jpmchase.com> From:

Sent: Sat. 28 Jan 2012 15:29:16 GMT

Goldman, Irvin J <irvin.j.goldman@jpmchase.com>; Hogan, John J. <John.J.Hogan@jpmorgan.com> To:

Subject: FW: JPMC Firmwide VaR - Daily Update - COB 01/26/2012

Why is CIO VAR so elevated? What is the collective view regarding what to do about this?

Barry

From: Market Risk Management - Reporting
Sent: Friday, January 27, 2012 06:16 PM Eastern Standard Time
To: Market Risk Management - Reporting, Dimon, Jamie; Hogan, John J.; Zubrow, Barry L; Staley, Jes; Drew, Ina; Goldman, Jirvin J; Weiland, Peter; Weisbrod, David A.; Bacon, Ashley; Beck, David J; Braunstein, Douglas; Morzaria, Tushar R; Wilmot, John; Dellosso, Donna; Bisignano, Frank J; Rauchenberger, Louis; Lake, Marianne
Cet Dovid Robin A.; Wagner, Mick: Market Risk Reporting: GREEN, LAN; McCaffrey, Lauren A; Tocchio.

Cc: Doyle, Robin A.; Waring, Mick; Market Risk Reporting; GREEN, IAN; McCaffrey, Lauren A; Tocchio, Samantha X; Chiavenato, Ricardo S.; Chen, Dan
Subject: JPMC Firmwide VaR - Daily Update - COB 01/26/2012

#### Firmwide 95% 10Q VaR

- The Firm's 95% 10Q VaR as of cob 01/26/2012 has increased by \$8mm from the prior day's VaR to \$161mm and has breached the \$140mm Firm VaR limit for the third consecutive day.
- CIO's 95% 10Q VaR* as of cob 01/26/2012 has increased by \$8mm from the prior day's VaR to \$120mm and has breached the \$110mm CiO VaR limit for the third consecutive day.
- The increase in the Firm's VaR is primarily driven by an overall reduction in diversification benefit across the Firm and position changes in CIO.
- Each LOB's contribution to the Firm's \$161mm VaR (as shown by marginal VaR) are: IB (\$45mm mVaR, primarily driven by Credit Mkts Global, Credit Port Global, and Global Rates), CIO (\$107mm mVaR, primarily driven by CIO International credit tranche book), RFS (\$2mm mVaR, primarily driven by the MSR portfolio), Private Equity (\$3mm mVaR, primarily driven by the International Cons portfolio), and TSS (\$4mm mVaR, primarily driven by the ADR hedge book).
- The stand alone VaR for each LOB are as follows: IB is \$76mm (vs. \$120mm limit), CIO is \$120mm (vs. \$105mm limit), RFS is \$10mm (vs. \$95mm limit), TSS is \$9mm (vs. \$25mm limit), Private Equity is \$6mm (no limit set given immateriality), and AM is \$0.2mm (no limit set given immateriality).
- * CIO continues to manage the synthetic credit portfolio balancing credit protection and Basel III RWA. The new VaR model for CIO was approved by MRG and is expected to be implemented prior to month-end.

The below table shows the 95% 10Q VaR for the current quarter compared with the prior quarter and the corresponding quarter of prior year.

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JPM-CIO DO03719

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cid:image001.png@01CCDD1C.9B1EEDE0

Please contact the MRM External Reporting team with any questions.

Confidential Treatment Requested by JPMORGAN CHASE & CO.

JPM-CIO 0003720

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

ERIC DE SANGUES < EDESANGUES@ From:

Fri, 16 Mar 2012 19:17:02 GMT Sent:

BRUNO IKSIL <BIKSIL2@ BRUNO IKSIL <br/>
BRUNO IKSIL <br/>
BRUNO IKSIL <br/>
BRUNO IKSIL <br/>
BRUNO IKSIL <br/>
BRUNO IKSIL <br/>
ERIC DE SANGUES <br/>
ERIC DE SANGUES <br/>
ERIC DE SANGUES <br/>
ERIC DE SANGUES <br/>
FILUS GROUT <br/>
GROUT <julien.g.grout@jpmchase.com>

Subject:

Redacted by the Permanent Subcommittee on Investigations

03/14/2012 21:35:07 ERIC DE SANGUES, JPMORGAN CHASE BANK, has left the room 03/14/2012 21:35:37 BRUNO IKSIL, JPMORGAN CHASE BANK, has left the room 03/15/2012 02:00:10 BRUNO IKSIL, JPMORGAN CHASE BANK, has joined the room 03/15/2012 02:00:10 BRUNO IKSIL, JPMORGAN CHASE BANK, has joined the room 03/15/2012 02:00:10 BRUNO IKSIL, JPMORGAN CHASE BANK, says:

****** JPMORGAN CHASE BANK, (748320) DISCIAIMENT FILE IN FOR INFORMATION ONLY, NOT AN OFFER OR SOLICITATION FOR THE PURCHASE OR SALE OF ANY FINANCIAL INSTRUMENT, NOR AN OFFICIAL CONFIRMATION OF TERMS. THE INFORMATION IS BELIEVED TO BE RELIABLE, BUT WE DO NOT WARRANT ITS COMPLETENESS OR ACCURACY. PRICES AND AVAILABILITY ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGE WITHOUT NOTICE. WE MAY HOLD A POSITION OR ACT AS A MARKET MAKER IN ANY FINANCIAL INSTRUMENT DISCUSSED HEREIN. CLIENTS SHOULD CONSULT THEIR OWN ADVISORS REGARDING ANY TAX, ACCOUNTING OR LEGAL ASPECTS OF THIS INFORMATION AND EXECUTE TRANSACTIONS THROUGH A J.P. MORGAN ENTITY IN THEIR HOME JURISDICTION UNLESS GOVERNING LAW PERMITS OTHERWISE.

03/15/2012 02:59:11 LUTS BURAYA, JPMORGÁN CHÁSE BANK, has joined the room 03/15/2012 02:59:11 LUTS BURAYA, JPMORGÁN CHÁSE BANK, says:

*** JPMORGÁN CHÁSE BANK, (748320) DISCIAIMET: THIS IS FOR INFORMATION ONLY, NOT AN OFFER OR SOLICLITATION FOR THE PURCHÁSE OR SALE OF ANY FINANCIAL INSTRUMENT, NOR AN OFFICIAL CONFIRMATION OF TERMS. THE INFORMATION IS BELIEVED TO BE RELIABLE, BUT WE DO NOT WARRANT ITS COMPLETENESS OR ACCURACY. PRICES AND AVAILABILITY ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGE WITHOUT NOTICE. WE MAY HOLD A POSITION OR ACT AS A MARKET MAKER IN ANY FINANCIAL INSTRUMENT DISCUSSED HEREIN. CLIENTS SHOULD CONSULT THEIR OWN ADVISORS REGARDING ANY TAX, ACCOUNTING OR LEGAL ASPECTS OF THIS INFORMATION AND EXECUTE TRANSACTIONS THROUGH A J.P. MORGÁN ENTITY IN THEIR HOME JURISDICTION UNLESS GOVERNING LAW PERMITS OTHERWISE. GOVERNING LAW PERMITS OTHERWISE.

03/15/2012 03:42:26 ERIC DE SANGUES, JPMORGAN CHASE BANK, has joined the room 03/15/2012 03:42:26 ERIC DE SANGUES, JPMORGAN CHASE BANK, says:

*** JPMORGAN CHASE BANK, (741671) DISCIAIMER: THIS IS FOR INFORMATION ONLY, NOT AN OFFER OR SOLICITATION FOR THE PURCHASE OR SALE OF ANY FINANCIAL INSTRUMENT, NOR AN OFFICIAL CONFIRMATION OF TERMS. THE INFORMATION IS BELIEVED TO BE RELIABLE, BUT WE DO NOT WARRANT ITS COMPLETENESS OR ACCURACY, PRICES AND AVAILABILITY ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGE WITHOUT NOTICE. WE MAY HOLD A POSITION OR ACT AS A MARKET MAKER IN ANY FINANCIAL INSTRUMENT DISCUSSED HEREIN. CLIENTS SHOULD CONSULT THEIR OWN ADVISORS REGARDING ANY TAX, ACCOUNTING OR LEGAL ASPECTS OF THIS INFORMATION AND EXECUTE TRANSACTIONS THROUGH A J.P. MORGAN ENTITY IN THEIR HOME JURISDICTION UNLESS GOVERNING LAW PERMITS OTHERWISE GOVERNING LAW PERMITS OTHERWISE.

03/15/2012 04:41:02 JULIEN GROUT, JPMORGAN CHASE BANK, has joined the room 03/15/2012 04:41:02 JULIEN GROUT, JPMORGAN CHASE BANK, says:

*** JPMORGAN CHASE BANK, (741671) Disclaimer: THIS IS FOR INFORMATION ONLY, NOT AN OFFER OR SOLICITATION FOR THE PURCHASE OR SALE OF ANY FINANCIAL INSTRUMENT, NOR AN OFFICIAL CONFIRMATION OF TERMS. THE INFORMATION IS BELIEVED TO BE RELIABLE, BUT WE DO NOT WARRANT ITS COMPLETENESS OR ACCURACY, PRICES AND AVAILABILITY ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGE WITHOUT NOTICE. WE MAY HOLD A POSITION OR ACT AS A MARKET MAKER IN ANY FINANCIAL INSTRUMENT DISCUSSED HEREIN. CLIENTS SHOULD CONSULT THEIR OWN

Confidential Treatment Requested by JPMORGAN CHASE & CO.

ADVISORS REGARDING ANY TAX, ACCOUNTING OR LEGAL ASPECTS OF THIS INFORMATION AND EXECUTE TRANSACTIONS THROUGH A J.P. MORGAN ENTITY IN THEIR HOME JURISDICTION UNLESS GOVERNING LAW PERMITS OTHERWISE.

03/15/2012 11:17:30 JULIEN GROUT, JPMORGAN CHASE BANK, says:

03/15/2012 11:17:37 JULIEN GROUT, JPMORGAN CHASE BANK, says: no data on your blotter page still

03/15/2012 11:19:00 BRUNO IKSIL, JPMORGAN CHASE BANK, says: I saved it

 $03/15/2012\ 11:19:08\ LUIS$  BURAYA, JPMORGAN CHASE BANK, says: maybe is the wrong date

 $03/15/2012\ 11:19:15\ \text{JULIEN}$  GROUT, JPMORGAN CHASE BANK, says: i hope it was not the blotter from ytday

 $03/15/2012\ 11:19:28\ BRUNO\ IKSIL,\ JPMORGAN\ CHASE\ BANK,\ says:\ Look\ on\ my\ pc$ 

 $03/15/2012\ 11:19:39$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: Ah yes

 $03/15/2012\ 11:19:42\ BRUNO\ IKSIL,\ JPMORGAN\ CHASE\ BANK,\ says:$  This is

03/15/2012 11:19:43 JULIEN GROUT, JPMORGAN CHASE BANK, says: :-)

 $03/15/2012\ 11:19:52\ BRUNO\ IKSIL,\ JPMORGAN\ CHASE\ BANK,\ says:\ I\ over\ wrote$ 

03/15/2012 11:24:43 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Julien

03/15/2012 11:24:54 JULIEN GROUT, JPMORGAN CHASE BANK, says: yes

 $03/15/2012\ 11:24:57$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: Target is to buy only  $10\text{yr}\ 0\text{-}3$ 

03/15/2012 11:25:00 BRUNO IKSIL, JPMORGAN CHASE BANK, says: At 62 or better 03/15/2012 11:25:05 JULIEN GROUT, JPMORGAN CHASE BANK, says:

ok 03/15/2012 11:25:11 JULIEN GROUT, JPMORGAN CHASE BANK, says:

no citi though
03/15/2012 11:25:24 JULIEN GROUT, JPMORGAN CHASE BANK, says:
so far only JPM/citi offering there

03/15/2012 11:29:21 LUIS BURAYA, JPMORGAN CHASE BANK, says: Bruno

Confidential Treatment Requested by JPMORGAN CHASE & CO. JPM-CIO 0005594

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

- 03/15/2012 11:29:31 LUIS BURAYA, JPMORGAN CHASE BANK, says: I do not understand T82
- 03/15/2012 11:29:47 LUIS BURAYA, JPMORGAN CHASE BANK, says: _2.8M coming from Greek default?
- $03/15/2012\ 12:45:38\ \text{LUIS}\ \text{BURAYA}$ , JPMORGAN CHASE BANK, says: Equity +2M daily
- 03/15/2012 12:52:50 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Back
- $03/15/2012\ 12:53:02$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: Ok the sovex index is much tighter
- $03/15/2012\ 12:53:13$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: So I think this should not be a loss
- $03/15/2012\ 12:53:34$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: Please check by remarking correctly the sovex
- $03/15/2012\ 12:53:44$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: The index quotes 225
- 03/15/2012 12:53:45 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Or less
- 03/15/2012 12:53:59 JULIEN GROUT, JPMORGAN CHASE BANK, says:
- 03/15/2012 12:54:20 JULIEN GROUT, JPMORGAN CHASE BANK, says: bruno u need me to book the gs S9 5/10 trades?
- 03/15/2012 12:54:53 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Yes please
- 03/15/2012 12:55:22 JULIEN GROUT, JPMORGAN CHASE BANK, says:
- 03/15/2012 12:55:47 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Try to seel hy16 at 99 3/4 and hy15 at 100 3/4
- 03/15/2012 12:55:51 BRUNO IKSIL, JPMORGAN CHASE BANK, says: 100m each
- $03/15/2012\ 12{:}56{:}02\ \mathrm{JULIEN}$  GROUT, JPMORGAN CHASE BANK, says: ok
- $03/15/2012\ 12:59:51$  JULIEN GROUT, JPMORGAN CHASE BANK, says: core -90k
- $03/15/2012\ 13;01;08$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: Ah ah
- $0\bar{\mathbf{3}}/15/2012$  13:01:10 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Nice

Confidential Treatment Requeste

JPM-CID 0005595

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

- 03/15/2012 13:01:17 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
- $03/15/2012\ 13:01:19\ \mbox{JULIEN}$  GROUT, JPMORGAN CHASE BANK, says: metric at 290
- $03/15/2012\ 13:01:31$  JULIEN GROUT, JPMORGAN CHASE BANK, says: worst ig9 as 5y widening.. as well as 10y
- 03/15/2012 13:02:06 LUIS BURAYA, JPMORGAN CHASE BANK, says: tactical -3.4M equities +2M
- 03/15/2012 13:02:24 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Wonderful
- $03/15/2012\ 13:04:11\ \text{LUIS}\ \text{BURAYA},\ \text{JPMORGAN}\ \text{CHASE}\ \text{BANK},\ \text{says:}$  we broke  $1400\ \text{in}\ \text{spx}$
- 03/15/2012 13:24:39 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Ig9 5yr widening should be good for us
- 03/15/2012 13:24:41 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
- $03/15/2012\ 13:24:50$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: Send the pnl
- $03/15/2012\ 13:25:59$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: Can u drop me here the breakdown of the lag please?
- 03/15/2012 13:26:10 JULIEN GROUT, JPMORGAN CHASE BANK, says: sure
- $03/15/2012\ 13:26:14\ \text{LUIS}\ \text{BURAYA},\ \text{JPMORGAN}\ \text{CHASE BANK},\ \text{says:}$  for block 4?
- $03/15/2012\ 13:26:16$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: And send it to javier email
- 03/15/2012 13:26:46 JULIEN GROUT, JPMORGAN CHASE BANK, says: itraxx 83 (4bp) ig 180 (4bp) hy 37) 0.12
- 03/15/2012 13:26:47 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Put me in copy
- $03/15/2012\ 13:27:02$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: I refer to the spreadsheet
- 03/15/2012 13:27:06 BRUNO IKSIL, JPMORGAN CHASE BANK, says: No luis  $\dot{}$
- 03/15/2012 13:27:14 LUIS BURAYA, JPMORGAN CHASE BANK, says: just fyi, looking at the sovx thing. The MO didn't process it correctly. The factor is wrong and the CDS for Greece is price by the IB who knows where.
- 03/15/2012 13:27:41 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Confidential Trustment Requested by JPMRIGRAM CHASE & CO.

JPM-CIO 0005596

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

- 03/15/2012 13:27:46 BRUNO IKSIL, JPMORGAN CHASE BANK, says: I think what happens here
- $03/15/2012\ 13:28:05$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: Is that the greek cds is booked at 100 bps
- 03/15/2012 13:28:17 BRUNO IKSIL, JPMORGAN CHASE BANK, says: And valued at 78upfront
- $03/15/2012\ 13:28:17\ LUIS\ BURAYA,\ JPMORGAN\ CHASE\ BANK,\ says:$  yes, we were talking about that
- 03/15/2012 13:28:19 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
- $03/15/2012\ 13:28:43$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: Then the index as such is now say at 230 not at 345
- 03/15/2012 13:28:54 LUIS BURAYA, JPMORGAN CHASE BANK, says:
- $03/15/2012\ 13:28:57\ BRUNO\ IKSIL,\ JPMORGAN\ CHASE\ BANK,\ says:\ That should make no pnl jump$
- 03/15/2012 13:29:02 LUIS BURAYA, JPMORGAN CHASE BANK, says:
- $03/15/2012\ 13:29:23$  LUIS BURAYA, JPMORGAN CHASE BANK, says: but the IB is pricing the single name at 4354.8 spread running
- $03/15/2012\ 13:29:49$  LUIS BURAYA, JPMORGAN CHASE BANK, says: I worked the upfront with Eric, but we do not know what the guys are doing
- $03/15/2012\ 13:30:07$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: So julien, basically u say the worsening is 1 bp in ig9
- $03/15/2012\ 13:30:08$  LUIS BURAYA, JPMORGAN CHASE BANK, says: any help?
- 03/15/2012 13:30:18 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Look luis
- 03/15/2012 13:30:23 JULIEN GROUT, JPMORGAN CHASE BANK, says: correct bruno
- $03/15/2012\ 13:30:24$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: This sounds correct
- $03/15/2012\ 13:30:32$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: This is not the pb
- $03/15/2012\ 13:30:41\ \mbox{JULIEN}$  GROUT, JPMORGAN CHASE BANK, says: mostly, 5y roll flatter
- 03/15/2012 13:30:46 BRUNO IKSIL, JPMORGAN CHASE BANK, says:

  Gonfidential Treatment Requested
  by JPMORGAN CHASE & CO.

JPM-CIO 0005597

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

<b>T</b>		٠	12 - 4		A1	index	
I DE	nn.	10	TIPO	TO	THE	INCEY	nn

- $03/15/2012\ 13:32:22\ \text{LUIS}$  BURAYA, JPMORGAN CHASE BANK, says: that was for yesterday problem
- $03/15/2012\ 13:32:35\ \text{LUIS}$  BURAYA, JPMORGAN CHASE BANK, says: today's is also taking a hit
- 03/15/2012 13:32:43 LUIS BURAYA, JPMORGAN CHASE BANK, says: it's not linked to the sovx
- $03/15/2012\ 13:32:48\ \text{LUIS}$  BURAYA, JPMORGAN CHASE BANK, says: we are working with Colin
- 03/15/2012 13:33:41 LUIS BURAYA, JPMORGAN CHASE BANK, says: sorted. MT is wrong.
- 03/15/2012 13:33:53 LUIS BURAYA, JPMORGAN CHASE BANK, says: We are flattening the pnl.  $\pm 500 \mathrm{K}$  in Tactical
- 03/15/2012 13:34:01 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
- 03/15/2012 13:34:05 JULIEN GROUT, JPMORGAN CHASE BANK, says: yes
- 03/15/2012 13:34:10 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Could remind me the level of hy17, ig 17, main s 16 and ig9 10yr please
- $03/15/2012\ 13:34:12\ BRUNO\ IKSIL,\ JPMORGAN\ CHASE\ BANK,\ says:$  At month end
- 03/15/2012 13:34:17 BRUNO IKSIL, JPMORGAN CHASE BANK, says:

#### And now

- 03/15/2012 13:34:40 LUIS BURAYA, JPMORGAN CHASE BANK, says: tactical pnl now  $+2.9\mathrm{M}$
- 03/15/2012 13:34:41 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Cool
- $03/15/2012\ 13:34:59$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: Ok good
- $03/15/2012\ 13:35:13$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: Reserve 2.5
- $03/15/2012\ 13:35:26\ \text{LUIS}$  BURAYA, JPMORGAN CHASE BANK, says: sorry my bad -2.9M
- 03/15/2012 13:35:34 LUIS BURAYA, JPMORGAN CHASE BANK, says: sorry...
- $03/15/2012\ 13{:}36{:}03$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: Ah

Confidential Treatment Requested by JPMORGAN CHASE & CO. JPM-CIC 0005598

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

03/15/2012 13:36:15 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Send like that

03/15/2012 13:36:23 LUIS BURAYA, JPMORGAN CHASE BANK, says:

 $03/15/2012\ 13:37:24$  LUIS BURAYA, JPMORGAN CHASE BANK, says: ok, i took the latest marks from Julien FInal Tactical pnI +800k

03/15/2012 13:38:11 JULIEN GROUT, JPMORGAN CHASE BANK, says: bruno: at 29-feb: main s16 128.25bp, xo: 566bp, ig17:93bp, hy: 98.0625, ig9 10y:112.5

03/15/2012 13:38:21 BRUNO IKSIL, JPMORGAN CHASE BANK, says:

03/15/2012 13:38:22 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Shoot

03/15/2012 13:38:47 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Ok

03/15/2012 13:38:48 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Now?

 $03/15/2012\ 13:39:07$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: What do u see on metric

 $03/15/2012\ 13:39:09$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: And what do we have

03/15/2012 13:39:11 BRUNO IKSIL, JPMORGAN CHASE BANK, says:  2 

03/15/2012 13:39:18 JULIEN GROUT, JPMORGAN CHASE BANK, says: today: main s16 123.5, xo: 547bp, ig17: 89.5, hy17: 98.125, ig9 10y: 113.5

03/15/2012 13:40:57 JULIEN GROUT, JPMORGAN CHASE BANK, says: we have: main s16: 123.75, xo: 548, ig17 89.25, hy17 97.9375, ig9 10y: 106.25

03/15/2012 13:43:03 BRUNO IKSIL, JPMORGAN CHASE BANK, says: I am a bit puzzled

 $03/15/2012\ 13:43:03\ \rm JULIEN\ GROUT,\ JPMORGAN\ CHASE\ BANK,\ says:\ depending\ on\ runs\ ig9\ 10y\ can\ be\ see\ tighter.$ 

 $03/15/2012\ 13:43:04$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: We have 6bps in ig9 after all

 $03/15/2012\ 13{:}43{:}06$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: Is that realistic

03/15/2012 13:43:07 BRUNO IKSIL, JPMORGAN CHASE BANK, says: ?

 $03/15/2012\ 13:43:15\ \mbox{JULIEN}$  GROUT, JPMORGAN CHASE BANK, says: i have the roll at 19

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JPM-CIG 0005599

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

- 03/15/2012 13:43:18 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
- 03/15/2012 13:43:32 BRUNO IKSIL, JPMORGAN CHASE BANK, says: I question here how we position ourseleves
- $03/15/2012\ 13:43:55$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: Aren't we making ig9 10 responsible for all here?
- 03/15/2012 13:44:10 JULIEN GROUT, JPMORGAN CHASE BANK, says: ah yes it's definitely pb number one
- 03/15/2012 13:44:17 JULIEN GROUT, JPMORGAN CHASE BANK, says: also: main s9 10 $\mathrm{y}$
- 03/15/2012 13:44:46 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Ok
- $03/15/2012\ 13:44:50$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: Does not show here
- 03/15/2012 13:45:00 BRUNO IKSIL, JPMORGAN CHASE BANK, says: I am conbfused
- $03/15/2012\ 13:45:22$  JULIEN GROUT, JPMORGAN CHASE BANK, says: i mean, im trying to keep a relatively realistic picture here ig9 10y put aside
- $03/15/2012\ 13:45:44$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: Because 7 bps in ig9 10yr makes up for 7x50 gives 350
- $03/15/2012\ 13:46:01$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: Yes but u see
- $03/15/2012\ 13{:}46{:}13$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: Just the ig9 10yrs explains more
- 03/15/2012 13:46:14 JULIEN GROUT, JPMORGAN CHASE BANK, says: that's what i am saying. i am not marking at mids as per a previous conversation
- $03/15/2012\ 13:46:15$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: Than the metric
- $03/15/2012\ 13:46:25\ \mbox{JULIEN}$  GROUT, JPMORGAN CHASE BANK, says: i can call and explain
- $03/15/2012\ 13:46:29$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: I am confused
- 03/15/2012 13:46:48 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Cool
- 03/15/2012 13:47:04 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Go
- 03/15/2012 13:47:29 JULIEN GROUT, JPMORGAN CHASE BANK, says: calling

Confidential Treatment Requested by JPMORGAN CHASE B. CO. JPM-C10 0005600

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

- 03/15/2012 13:48:05 JULIEN GROUT, JPMORGAN CHASE BANK, says: ok let me know when you are ready
- 03/15/2012 13:48:45 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Did u hear me? I could not
- 03/15/2012 13:48:53 JULIEN GROUT, JPMORGAN CHASE BANK, says: no i didnt hear you
- 03/15/2012 13:48:55 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Try now
- 03/15/2012 13:49:24 JULIEN GROUT, JPMORGAN CHASE BANK, says: voicemail
- 03/15/2012 13:59:46 LUIS BURAYA, JPMORGAN CHASE BANK, has left the room 03/15/2012 14:07:00 JULIEN GROUT, JPMORGAN CHASE BANK, says:
- 03/15/2012 14:14:31 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
- 03/15/2012 14:14:44 JULIEN GROUT, JPMORGAN CHASE BANK, says: ves  $\dot{\phantom{a}}$
- 03/15/2012 14:15:12 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Send to me and javier the spreadheet where u store the breakdown of the difference between our estimate and crude mids
- 03/15/2012 14:15:22 BRUNO IKSIL, JPMORGAN CHASE BANK, says: I will comment to javier
- $03/15/2012\ 14:15:56$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: Just say that this is the spreadsheet that provides the details of the difference
- 03/15/2012 14:16:07 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Between main s9 ig9 and hy
- $03/15/2012\ 14:16:15\ JULIEN GROUT, JPMORGAN CHASE BANK, says: u need the spreadsheet, or only the table$
- $03/15/2012\ 14:16:37\ BRUNO\ IKSIL,\ JPMORGAN\ CHASE\ BANK,\ says:$  The spreasheet only
- $03/15/2012\ 14{:}17{:}17$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: In the ralaly
- 03/15/2012 14:17:17 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Just say the difference worsened by 1bp on ig9  $\,$
- $03/15/2012\ 14{:}17{:}17\ BRUNO\ IKSIL,\ JPMORGAN\ CHASE\ BANK,\ says:\ Rally$
- 03/15/2012 14:18:12 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Btw
- 03/15/2012 14:18:40 BRUNO IKSIL, JPMORGAN CHASE BANK, says:

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  by JPMORGAN CHASE & CO.

JPM-C10 0005601

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

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- 03/15/2012 14:18:46 BRUNO IKSIL, JPMORGAN CHASE BANK, says: As crude metric price
- $03/15/2012\ 14:19:44$  JULIEN GROUT, JPMORGAN CHASE BANK, says:  $91\ vs\ 110.5$
- 03/15/2012 14:20:11 BRUNO IKSIL, JPMORGAN CHASE BANK, says: No
- 03/15/2012 14:20:13 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Crude
- 03/15/2012 14:20:21 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Not our estimate
- 03/15/2012 14:20:27 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
- 03/15/2012 14:20:35 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Blind marking
- 03/15/2012 14:20:42 JULIEN GROUT, JPMORGAN CHASE BANK, says: i repeat
- 03/15/2012 14:20:56 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
- 03/15/2012 14:21:18 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Yeaterday is quoted wider the ig9 10yr
- 03/15/2012 14:22:16 BRUNO IKSIL, JPMORGAN CHASE BANK, says: I think u had 114.5 or 114 instead
- $03/15/2012\ 14{:}22{:}30$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: For 91 ref in ig17
- 03/15/2012 14:45:33 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Email sent
- $03/15/2012\ 14:45:48\ \mbox{JULIEN}$  GROUT, JPMORGAN CHASE BANK, says: i sent you the sheet
- $03/15/2012\ 14:46:20$  JULIEN GROUT, JPMORGAN CHASE BANK, says: going home now speak tomorrow
- $03/15/2012\ 14:46:35\ \mbox{JULIEN}$  GROUT, JPMORGAN CHASE BANK, says: rescap headline out
- 03/15/2012 14:47:12 JULIEN GROUT, JPMORGAN CHASE BANK, has left the room 03/15/2012 14:54:42 BRUNO IKSIL, JPMORGAN CHASE BANK, says: >Yes
- 03/15/2012 14:54:48 BRUNO IKSIL, JPMORGAN CHASE BANK, says: >Seen

Confidential Treatment Requested by JPMORGAN CHASE & CO.

JPM-CIO 0005502

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

03/15/2012 14:55:24 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Could u sell hy16 and hy15

03/15/2012 14:55:27 BRUNO IKSIL, JPMORGAN CHASE BANK, says:

03/15/2012 15:00:38 BRUNO IKSIL, JPMORGAN CHASE BANK, says: HENRY KIM: i buy 100mm@ 99.625 and 100mm @ 100.625

 $03/15/2012\ 15:00:46$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: Late trade to book

03/15/2012 15:25:23 BRUNO IKSIL, JPMORGAN CHASE BANK, says: FELIX BHANDARI: so i sell 20mm at 39, 70mm at 38â

03/15/2012 15:25:36 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Hy9 5yr 10-15

03/15/2012 15:32:40 BRUNO IKSIL, JPMORGAN CHASE BANK, says: HENRY KIM: so far i've bot from you all day:

100mm hy15.5y @ 100.5 100mm hy16.5y @ 99.625 100mm hy15.5y @ 100.625

and you can do 50mm more of each 16, 15 @ .5625

03/15/2012 20:23:49 BRUNO IKSIL, JPMORGAN CHASE BANK, has left the room 03/15/2012 21:54:01 ERIC DE SANGUES, JPMORGAN CHASE BANK, has left the room 03/16/2012 02:14:24 BRUNO IKSIL, JPMORGAN CHASE BANK, has joined the room 03/16/2012 02:14:24 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
**** JPMORGAN CHASE BANK, (748320) Disclaimer: THIS IS FOR INFORMATION ONLY, NOT AN OFFER OR SOLICITATION FOR THE PURCHASE OR SALE OF ANY FINANCIAL INSTRUMENT, NOR AN OFFICIAL CONFIRMATION OF TERMS. THE INFORMATION IS BELIEVED TO BE RELIABLE, BUT WE DO NOT WARRANT ITS COMPLETENESS OR ACCURACY. PRICES AND AVAILABILITY ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGE WITHOUT NOTICE. WE MAY HOLD A POSITION OR ACT AS A MARKET MAKER IN ANY FINANCIAL INSTRUMENT DISCUSSED HEREIN. CLIENTS SHOULD CONSULT THEIR OWN ADVISORS REGARDING ANY TAX, ACCOUNTING OR LEGAL ASPECTS OF THIS INFORMATION AND EXECUTE TRANSACTIONS THROUGH A J.P. MORGAN ENTITY IN THEIR HOME JURISDICTION UNLESS GOVERNING LAW PERMITS OTHERWISE.

03/16/2012 03:17:13 LUIS BURAYA, JPMORGAN CHASE BANK, has joined the room 03/16/2012 03:17:13 LUIS BURAYA, JPMORGAN CHASE BANK, says:

**** JPMORGAN CHASE BANK, (748320) Disclaimer: THIS IS FOR INFORMATION ONLY, NOT AN OFFER OR SOLICITATION FOR THE PURCHASE OR SALE OF ANY FINANCIAL INSTRUMENT, NOR AN OFFICIAL CONFIRMATION OF TERMS. THE INFORMATION IS BELIEVED TO BE RELIABLE, BUT WE DO NOT WARRANT ITS COMPLETENESS OR ACCURACY. PRICES AND AVAILABILITY ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGE WITHOUT NOTICE. WE MAY HOLD A POSITION OR ACT AS A MARKET MAKER IN ANY FINANCIAL INSTRUMENT DISCUSSED HEREIN. CLIENTS SHOULD CONSULT THEIR OWN ADVISORS REGARDING ANY TAX, ACCOUNTING OR LEGAL ASPECTS OF THIS INFORMATION AND EXECUTE TRANSACTIONS THROUGH A J.P. MORGAN ENTITY IN THEIR HOME JURISDICTION UNLESS GOVERNING LAW PERMITS OTHERWISE.

03/16/2012 03:18:19 LUIS BURAYA, JPMORGAN CHASE BANK, says: good morning

JPM-CIO 0005603

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

hello

03/16/2012 03:18:35 LUIS BURAYA, JPMORGAN CHASE BANK, says: i think we are looking forward to another non-action day

03/16/2012 03:19:10 LUIS BURAYA, JPMORGAN CHASE BANK, says: I'm checking the deltas Bruno

03/16/2012 03:19:14 LUIS BURAYA, JPMORGAN CHASE BANK, says: I'll come back to you

03/16/2012 03:19:18 BRUNO IKSIL, JPMORGAN CHASE BANK, says: ok

03/16/2012 03:19:20 LUIS BURAYA, JPMORGAN CHASE BANK, says: let's see if anything has changed  $\,$ 

03/16/2012 03:33:10 JULIEN GROUT, JPMORGAN CHASE BANK, has joined the room 03/16/2012 03:33:10 JULIEN GROUT, JPMORGAN CHASE BANK, says:

*** JPMORGAN CHASE BANK, (741671) Disclaimer: THIS IS FOR INFORMATION ONLY, NOT AN OFFER OR SOLICITATION FOR THE PURCHASE OR SALE OF ANY FINANCIAL INSTRUMENT, NOR AN OFFICIAL CONFIRMATION OF TERMS. THE INFORMATION IS BELIEVED TO BE RELIABLE, BUT WE DO NOT WARRANT IT'S COMPLETENESS OR ACCURACY. PRICES AND AVAILABILITY ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGE WITHOUT NOTICE. WE MAY HOLD A POSITION OR ACT AS A MARKET MAKER IN ANY FINANCIAL INSTRUMENT DISCUSSED HEREIN. CLIENTS SHOULD CONSULT THEIR OWN ADVISORS REGARDING ANY TAX, ACCOUNTING OR LEGAL ASPECTS OF THIS INFORMATION AND EXECUTE TRANSACTIONS THROUGH A J.P. MORGAN ENTITY IN THEIR HOME JURISDICTION UNLESS GOVERNING LAW PERMITS OTHERWISE.

03/16/2012 03:33:42 JULIEN GROUT, JPMORGAN CHASE BANK, says: morning

03/16/2012 03:40:27 ERIC DE SANGUES, JPMORGAN CHASE BANK, has joined the room 03/16/2012 03:40:27 ERIC DE SANGUES, JPMORGAN CHASE BANK, says:

*** JPMORGAN CHASE BANK, (741671) Disclaimer: THIS IS FOR INFORMATION ONLY, NOT AN OFFER OR SOLICITATION FOR THE PURCHASE OR SALE OF ANY FINANCIAL INSTRUMENT, NOR AN OFFICIAL CONFIRMATION OF TERMS. THE INFORMATION IS BELIEVED TO BE RELIABLE, BUT WE DO NOT WARRANT ITS COMPLETENESS OR ACCURACY. PRICES AND AVAILABILITY ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGE WITHOUT NOTICE. WE MAY HOLD A POSITION OR ACT AS A MARKET MAKER IN ANY FINANCIAL INSTRUMENT DISCUSSED HEREIN. CLIENTS SHOULD CONSULT THEIR OWN ADVISORS REGARDING ANY TAX, ACCOUNTING OR LEGAL ASPECTS OF THIS INFORMATION AND EXECUTE TRANSACTIONS THROUGH A J.P. MORGAN ENTITY IN THEIR HOME JURISDICTION UNLESS GOVERNING LAW PERMITS OTHERWISE.

03/16/2012 03:44:11 BRUNO IKSIL, JPMORGAN CHASE BANK, says:

03/16/2012 03:44:19 BRUNO IKSIL, JPMORGAN CHASE BANK, says: i sent another email today

03/16/2012 03:44:21 BRUNO IKSIL, JPMORGAN CHASE BANK, says: have a look

03/16/2012 03:44:26 JULIEN GROUT, JPMORGAN CHASE BANK, says: ves

03/16/2012 03:49:17 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Confidential Treatment Requested by JPMORGAN CHASE & CO.

JPM-CIO 0005604

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

- please let me know when core deltas are updated
- 03/16/2012 03:54:17 JULIEN GROUT, JPMORGAN CHASE BANK, says: done
- 03/16/2012 03:55:05 BRUNO IKSIL, JPMORGAN CHASE BANK, says: thx
- 03/16/2012 03:59:59 LUIS BURAYA, JPMORGAN CHASE BANK, says: Most of the otm options have been expired.
- $03/16/2012\ 04:00:11\ LUIS\ BURAYA,\ JPMORGAN\ CHASE\ BANK,\ says:\ delta\ unchanged$
- 03/16/2012 04:00:14 BRUNO IKSIL, JPMORGAN CHASE BANK, says: cool
- 03/16/2012 04:00:15 LUIS BURAYA, JPMORGAN CHASE BANK, says: +204M
- $03/16/2012\ 04:00:23\ LUIS\ BURAYA,\ JPMORGAN\ CHASE\ BANK,\ says: checking now, the issue$
- $03/16/2012\ 04:01:21\ LUIS$  BURAYA, JPMORGAN CHASE BANK, says: 74 eur, 0 delta change after expiry
- $03/16/2012\ 04:02:19\ \text{LUIS}\ \text{BURAYA}$ , JPMORGAN CHASE BANK, says: 74 usd, +72M after expiry
- $03/16/2012\ 04:02:26\ LUIS$  BURAYA, JPMORGAN CHASE BANK, says: sorry 72M
- 03/16/2012 04:02:57 LUIS BURAYA, JPMORGAN CHASE BANK, says: 76 usd +28M after expiry
- $03/16/2012\ 04:03:17\ LUIS\ BURAYA,\ JPMORGAN\ CHASE\ BANK,\ says:\ total\ impact\ after\ expiry\ should\ be\ +44M\ in\ Atlas.$
- 03/16/2012 04:03:22 LUIS BURAYA, JPMORGAN CHASE BANK, says: sorry
- 03/16/2012 04:03:23 LUIS BURAYA, JPMORGAN CHASE BANK, says: -44M
- $03/16/2012\ 04:03:39\ LUIS\ BURAYA,\ JPMORGAN\ CHASE\ BANK,\ says:$  so final delta should be +160M
- $03/16/2012\ 04:03:53$  LUIS BURAYA, JPMORGAN CHASE BANK, says: (all this is theoretically as per current Atlas)
- 03/16/2012 04:04:08 BRUNO IKSIL, JPMORGAN CHASE BANK, says: ok thx
- 03/16/2012 04:39:48 BRUNO IKSIL, JPMORGAN CHASE BANK, says: JUlien?
- 03/16/2012 04:40:04 BRUNO IKSIL, JPMORGAN CHASE BANK, says: Confidential Treatment Requested by JPMORGAN CHASE & CO.

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

JPM-CIO 0005605

Can you make a print of the chat you had with Biran Christman yesterday please?

03/16/2012 04:44:45 JULIEN GROUT, JPMORGAN CHASE BANK, says:

03/16/2012 04:44:52 BRUNO IKSIL, JPMORGAN CHASE BANK, says:

03/16/2012 04:45:06 BRUNO IKSIL, JPMORGAN CHASE BANK, says: i bought 50m xover

03/16/2012 04:45:08 BRUNO IKSIL, JPMORGAN CHASE BANK, says: instant

03/16/2012 04:45:12 BRUNO IKSIL, JPMORGAN CHASE BANK, says:

03/16/2012 04:45:19 JULIEN GROUT, JPMORGAN CHASE BANK, says: proxy hedging

03/16/2012 04:45:19 BRUNO IKSIL, JPMORGAN CHASE BANK, says: eauity flat

03/16/2012 04:45:22 JULIEN GROUT, JPMORGAN CHASE BANK, says: sophsticated

03/16/2012 04:47:07 ERIC DE SANGUES, JPMORGAN CHASE BANK, says: the index market is non existent when us guys are not in

 $03/16/2012\ 04{:}57{:}31\ \text{LUIS}\ \text{BURAYA}\text{, JPMORGAN}\ \text{CHASE BANK}\text{, says:}$  so true

03/16/2012 05:01:26 ERIC DE SANGUES, JPMORGAN CHASE BANK, says: Credit Agricole correlation book RIP: * CREDIT AGRICOLE (UW) FT reports Credit Agricole has handed the remains of a closed business in its investment bank over to BlueMountain, reducing RWAs by EUR14bn

 $03/16/2012\ 05{:}03{:}15\ BRUNO\ IKSIL,\ JPMORGAN\ CHASE\ BANK,\ says:$  ah ah yes

 $03/16/2012\ 05:03:28$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: i will surrender to our own investment bank

 $03/16/2012\ 05{:}03{:}33$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: no worries

 $03/16/2012\ 05:03:39$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: the work on their bonus for this year

 $03/16/2012\ 05{:}03{:}45$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: they have one customer

 $03/16/2012\ 05:03:51$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: that will be enough

03/16/2012 05:04:59 ERIC DE SANGUES, JPMORGAN CHASE BANK, says:

I love the caveat in this article: There is still some residual risk for Credit Agricole from this transaction as they are providing an unquantified liquidity facility to Blue Mountain, so not a clean sale.

**Departure of the Properties of the Company of

03/16/2012 05:05:11 BRUNO IKSIL, JPMORGAN CHASE BANK, says: ves

03/16/2012 05:05:13 ERIC DE SANGUES, JPMORGAN CHASE BANK, says: excellent

03/16/2012 05:05:20 BRUNO IKSIL, JPMORGAN CHASE BANK, says:

 $03/16/2012\ 05:05:27\ BRUNO\ IKSIL,\ JPMORGAN\ CHASE\ BANK,\ says:$  jp does first class business

03/16/2012 05:05:31 BRUNO IKSIL, JPMORGAN CHASE BANK, says: no spillage

 $03/16/2012\ 05:05:37\ \textsc{ERIC}$  DE SANGUES, JPMORGAN CHASE BANK, says: yes in that case

03/16/2012 05:08:53 ERIC DE SANGUES, JPMORGAN CHASE BANK, says: for CA it's different...they're still on the hook...CPPIs with liquidity lines, LSS with (far away) triggers, super thin mezzanines (I remember a 5-6% 10Y mezz...)... The toxic waste of a toxic period...all that wrapped in a nice gift package... Most of the remaining risk in that thing is now tail risk / liquidity risk

03/16/2012 05:09:27 ERIC DE SANGUES, JPMORGAN CHASE BANK, says: they say they get rid of the risk and still keep the liquidity side of it...mind boggling

 $03/16/2012\ 06:18:27\ \mathrm{JULIEN}$  GROUT, JPMORGAN CHASE BANK, says: bruno pls read MS chat

 $03/16/2012\ 06:18:31\ \mbox{JULIEN GROUT, JPMORGAN CHASE BANK, says:}$  re: yesterday's trades

03/16/2012 06:25:47 BRUNO IKSIL, JPMORGAN CHASE BANK, says: yes

03/16/2012 06:25:50 BRUNO IKSIL, JPMORGAN CHASE BANK, says: just saw

 $03/16/2012\ 06{:}27{:}44$  JULIEN GROUT, JPMORGAN CHASE BANK, says: thx

03/16/2012 06:27:55 BRUNO IKSIL, JPMORGAN CHASE BANK, says: i corect

 $03/16/2012\ 06:37:38\ JULIEN\ GROUT,\ JPMORGAN\ CHASE\ BANK,\ says:\ bruno\ -\ javier\ here-\ can\ you\ call\ him\ at\ some\ point\ today$ 

03/16/2012 07:11:34 JULIEN GROUT, JPMORGAN CHASE BANK, has left the room 03/16/2012 07:40:21 JULIEN GROUT, JPMORGAN CHASE BANK, has joined the room 03/16/2012 07:40:21 JULIEN GROUT, JPMORGAN CHASE BANK, says:
**** JPMORGAN CHASE BANK, (741671) Disclaimer: THIS IS FOR INFORMATION ONLY, NOT AN OFFER OR SOLICITATION FOR THE PURCHASE OR SALE OF ANY FINANCIAL INSTRUMENT, NOR AN OFFICIAL CONFIRMATION OF TERMS. THE INFORMATION IS BELIEVED TO BE RELIABLE, BUT WE DO NOT WARRANT ITS COMPLETENESS OR ACCURACY. PRICES AND AVAILABILITY ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGE WITHOUT NOTICE. WE MAY HOLD A POSITION OR ACT AS A MARKET MAKER IN ANY FINANCIAL INSTRUMENT DISCUSSED HEREIN. CLIENTS SHOULD CONSULT THEIR OWN

by JPMORGAN CHASE & CO.

ADVISORS REGARDING ANY TAX, ACCOUNTING OR LEGAL ASPECTS OF THIS INFORMATION AND EXECUTE TRANSACTIONS THROUGH A J.P. MORGAN ENTITY IN THEIR HOME JURISDICTION UNLESS GOVERNING LAW PERMITS OTHERWISE.

03/16/2012 07:49:38 LUIS BURAYA, JPMORGAN CHASE BANK, says: stoxx 50 expired - Delta and PnL impacts are zero

03/16/2012 08:02:21 ERIC DE SANGUES, JPMORGAN CHASE BANK, has left the room 03/16/2012 08:07:03 BRUNO IKSIL, JPMORGAN CHASE BANK, says:

03/16/2012 08:19:21 LUIS BURAYA, JPMORGAN CHASE BANK, says: good day in equities today Bruno

03/16/2012 08:19:55 ERIC DE SANGUES, JPMORGAN CHASE BANK, has joined the room 03/16/2012 08:19:55 ERIC DE SANGUES, JPMORGAN CHASE BANK, says:

*** JPMORGAN CHASE BANK, (741671) Disclaimer: THIS IS FOR INFORMATION ONLY, NOT AN OFFER OR SOLICITATION FOR THE PURCHASE OR SALE OF ANY FINANCIAL INSTRUMENT, NOR AN OFFICIAL CONFIRMATION OF TERMS. THE INFORMATION IS BELIEVED TO BE RELIBBLE, BUT WE DO NOT WARRANT ITS COMPLETENESS OR ACCURACY. PRICES AND AVAILABILITY ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGE WITHOUT NOTICE. WE MAY HOLD A POSITION OR ACT AS A MARKET MAKER IN ANY FINANCIAL INSTRUMENT DISCUSSED HEREIN. CLIENTS SHOULD CONSULT THEIR OWN ADVISORS REGARDING ANY TAX, ACCOUNTING OR LEGAL ASPECTS OF THIS INFORMATION AND EXECUTE TRANSACTIONS THROUGH A J.P. MORGAN ENTITY IN THEIR HOME JURISDICTION UNLESS GOVERNING LAW PERMITS OTHERWISE.

03/16/2012 10:07:20 LUIS BURAYA, JPMORGAN CHASE BANK, says: tactical 82 ytd is back at -399k

 $03/16/2012\ 10:07:26\ LUIS$  BURAYA, JPMORGAN CHASE BANK, says: Monday is the auction

 $03/16/2012\ 10{:}12{:}38$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: i do not see why really

 $03/16/2012\ 10:12:42\ BRUNO\ IKSIL,\ JPMORGAN\ CHASE\ BANK,\ says:$  sovex is tighter

 $03/16/2012\ 10:12:48\ BRUNO\ IKSIL,\ JPMORGAN\ CHASE\ BANK,\ says:$  greece has not moved

 $03/16/2012\ 10:13:08$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: it is better instead

 $03/16/2012\ 11:04:54\ \text{LUIS}$  BURAYA, JPMORGAN CHASE BANK, says: expiring the spx

03/16/2012 11:33:10 LUIS BURAYA, JPMORGAN CHASE BANK, says: Bruno, one instrument is incorrectly created.

 $03/16/2012\ 11:33:14\ \text{LUIS}\ \text{BURAYA},\ \text{JPMORGAN}\ \text{CHASE}\ \text{BANK},\ \text{says:}$  hence the wrong delta

03/16/2012 11:33:51 LUIS BURAYA, JPMORGAN CHASE BANK, says: once it is expired I confirm that delta will be  $\pm 163M$ 

03/16/2012 11:34:16 LUIS BURAYA, JPMORGAN CHASE BANK, says: Confidential Treatment Requested by JPMORGAN CHASE & CO.

JPM-CIO 0005608

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

- +23M now + the 138M coming from the option
- $03/16/2012\ 11:42:00$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: are you booking other stuff?
- 03/16/2012 11:42:07 LUIS BURAYA, JPMORGAN CHASE BANK, says:
- $03/16/2012\ 11:42:16$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: i do not see the option delta coming
- 03/16/2012 11:42:22 BRUNO IKSIL, JPMORGAN CHASE BANK, says: i see a loss in new trades
- $03/16/2012\ 11:42:44\ LUIS\ BURAYA,\ JPMORGAN\ CHASE\ BANK,\ says:\ you\ just\ booked\ 500spx.$
- 03/16/2012 11:42:59 LUIS BURAYA, JPMORGAN CHASE BANK, says: I need to expire one more option. I put you in copy
- $03/16/2012\ 11:43:05\ \text{LUIS}$  BURAYA, JPMORGAN CHASE BANK, says: the set up was wrong
- $03/16/2012\ 11:44:13$  LUIS BURAYA, JPMORGAN CHASE BANK, says: delta should be higher by 140M and yes pnl on that book is still wrong
- 03/16/2012 11:44:21 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
- $03/16/2012\ 11:44:23\ \text{LUIS}$  BURAYA, JPMORGAN CHASE BANK, says: James and Amardeep are contacting NT
- 03/16/2012 11:44:24 LUIS BURAYA, JPMORGAN CHASE BANK, says: NY
- $03/16/2012\ 11:44:29$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: that was my question
- 03/16/2012 11:44:31 LUIS BURAYA, JPMORGAN CHASE BANK, says: let's see if they sort it out soon
- 03/16/2012 11:45:25 LUIS BURAYA, JPMORGAN CHASE BANK, says: sorry, but I can't do anything. If I book a trade and expiry the option I was todl I will create a break anyway
- $03/16/2012\ 11:45:52\ BRUNO\ IKSIL$  , JPMORGAN CHASE BANK, says: and this is where the delta comes from right?
- 03/16/2012 12:19:20 LUIS BURAYA, JPMORGAN CHASE BANK, says: look now
- 03/16/2012 12:19:26 LUIS BURAYA, JPMORGAN CHASE BANK, says: delta is +195M
- 03/16/2012 12:19:29 LUIS BURAYA, JPMORGAN CHASE BANK, says: all is expired

Confidential Treatment Requested by JPMORGAN CHASE & CO. JPM-CIO 0005609

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

03/16/2012 12:19:32 BRUNO IKSIL, JPMORGAN CHASE BANK, says:

03/16/2012 12:19:43 BRUNO IKSIL, JPMORGAN CHASE BANK, says:

03/16/2012 12:19:45 BRUNO IKSIL, JPMORGAN CHASE BANK, says: right?

03/16/2012 12:19:55 LUIS BURAYA, JPMORGAN CHASE BANK, says: the new trade pnl is f*ck up because the prices are stupid, have a look into new trade tab

 $03/16/2012\ 12;20:01\ \text{LUIS}$  BURAYA, JPMORGAN CHASE BANK, says: th call 1300

03/16/2012 12:20:29 LUIS BURAYA, JPMORGAN CHASE BANK, says: the FV should be 105.11, that it is where it is closed. I don't understand why they are still pricing it at 998.29

 $03/16/2012\ 12:21:06\ LUIS\ BURAYA, JPMORGAN\ CHASE\ BANK, says: same with the call <math display="inline">1350$  and with the call 1160

 $03/16/2012\ 12{:}21{:}13$  LUIS BURAYA, JPMORGAN CHASE BANK, says: and 1320

 $03/16/2012\ 12:21:21\ \text{LUIS BURAYA},\ \text{JPMORGAN CHASE BANK, says:}$  the FV should equal the price

 $03/16/2012\ 12:21:26\ BRUNO\ IKSIL,\ JPMORGAN\ CHASE\ BANK,\ says:$  how and when does this clear?

 $03/16/2012\ 12:21:29\ \text{LUIS}$  BURAYA, JPMORGAN CHASE BANK, says: the ESDP is 1405.11

 $03/16/2012\ 12:21:39\ LUIS\ BURAYA,\ JPMORGAN\ CHASE\ BANK,\ says:$  the reported pnl is correct

03/16/2012 12:21:43 LUIS BURAYA, JPMORGAN CHASE BANK, says: or should be

03/16/2012 12:23:26 LUIS BURAYA, JPMORGAN CHASE BANK, says: do you follow me?

03/16/2012 12:35:25 ERIC DE SANGUES, JPMORGAN CHASE BANK, says: SX5E vol going very bid into the close, very squeezy, outperforming the rest of europe by 30bps across the curve.

03/16/2012 12:36:46 LUIS BURAYA, JPMORGAN CHASE BANK, has left the room 03/16/2012 12:39:18 LUIS BURAYA, JPMORGAN CHASE BANK, has joined the room 03/16/2012 12:50:55 LUIS BURAYA, JPMORGAN CHASE BANK, has left the room 03/16/2012 12:54:30 LUIS BURAYA, JPMORGAN CHASE BANK, has joined the room 03/16/2012 12:57:46 ERIC DE SANGUES, JPMORGAN CHASE BANK, says: Bruno : Tactical pnl 1st draft -7.3M USD

03/16/2012 12:58:07 ERIC DE SANGUES, JPMORGAN CHASE BANK, says: block 4 -8.4M divs +1.8M

Confidential Treatment Requested by JPMORGAN CHASE & CO. JPM-CIO 0005610

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

03/16/2012 12:59:37 ERIC DE SANGUES, JPMORGAN CHASE BANK, says: block 4 detail : 71 eur +3.5M / 71 USD -5M / 75 USD -7M / 74 + 76 +0.6M (atlas is +1.3M)

03/16/2012 12:59:49 LUIS BURAYA, JPMORGAN CHASE BANK, says: Recovering from yesterday

 $03/16/2012\ 13:01:05$  ERIC DE SANGUES, JPMORGAN CHASE BANK, says: what do you want us to do Bruno ?

03/16/2012 13:06:48 BRUNO IKSIL, JPMORGAN CHASE BANK, says: ok

03/16/2012 13:06:59 BRUNO IKSIL, JPMORGAN CHASE BANK, says: is the atals pnl correct?

 $03/16/2012\ 13:07:22\ LUIS\ BURAYA,\ JPMORGAN\ CHASE\ BANK,\ says:\ Reported\ pnl\ should\ be\ correct$ 

03/16/2012 13:07:26 LUIS BURAYA, JPMORGAN CHASE BANK, says: However

 $03/16/2012\ 13:07:27$  ERIC DE SANGUES, JPMORGAN CHASE BANK, says: with the option expiry I cannot guarantee that

 $03/16/2012\ 13:07:34$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: so new trade is correct

03/16/2012 13:07:36 BRUNO IKSIL, JPMORGAN CHASE BANK, says:

 $03/16/2012\ 13:07:43$  ERIC DE SANGUES, JPMORGAN CHASE BANK, says: my reported pnl is wrong in the strats where I have expiring options

 $03/16/2012\ 13:08:24$  LUIS BURAYA, JPMORGAN CHASE BANK, says: The options are misprice in atlas, I don;t know the situation in Scala.

 $03/16/2012\ 13:08:50$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: can you send me the positions eric?

 $03/16/2012\ 13:09:08\ LUIS\ BURAYA,\ JPMORGAN\ CHASE\ BANK,\ says:$  If there's pnl coming we will check if it is from those instruments

03/16/2012 13:09:46 LUIS BURAYA, JPMORGAN CHASE BANK, says: The cash is supposed to correctly reflect the pnl

 $03/16/2012\ 13:09:54$  ERIC DE SANGUES, JPMORGAN CHASE BANK, says: positions and predict in your mailbox bruno

 $03/16/2012\ 13:10:07\ LUIS$  BURAYA, JPMORGAN CHASE BANK, says: The problem is as usual, the fair value concept

 $03/16/2012\ 13:11:45$  LUIS BURAYA, JPMORGAN CHASE BANK, says: Eric, what is the pnl in equities only? In the option rewport

 $03/16/2012\ 13{:}12{:}26\ \text{LUIS}$  BURAYA, JPMORGAN CHASE BANK, says: In MT

Confidential Treatment Requested by JPMORGAN CHASE & CO. JPM-CID 000561

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

- 03/16/2012 13:12:27 BRUNO IKSIL, JPMORGAN CHASE BANK, says:
- 03/16/2012.13:12:30 BRUNO IKSIL, JPMORGAN CHASE BANK, says: let me see
- $03/16/2012\ 13:12:42\ BRUNO\ IKSIL,\ JPMORGAN\ CHASE\ BANK,\ says:$  where is core pnl here?
- 03/16/2012 13:14:17 BRUNO IKSIL, JPMORGAN CHASE BANK, says: tulien?
- 03/16/2012 13:16:23 JULIEN GROUT, JPMORGAN CHASE BANK, says: ves
- 03/16/2012 13:16:32 JULIEN GROUT, JPMORGAN CHASE BANK, says: 306
- $03/16/2012\ 13:16:45\ JULIEN\ GROUT, JPMORGAN\ CHASE\ BANK, says: hy taking a beating today actually, esp in tranches$
- 03/16/2012 13:16:49 BRUNO IKSIL, JPMORGAN CHASE BANK, says: ok
- 03/16/2012 13:17:20 BRUNO IKSIL, JPMORGAN CHASE BANK, says: so the pnl in tactical is doen wiht thos eprices that brings up 306 in core right?
- 03/16/2012 13:17:34 JULIEN GROUT, JPMORGAN CHASE BANK, says: correct
- 03/16/2012 13:17:41 BRUNO IKSIL, JPMORGAN CHASE BANK, says: ok
- 03/16/2012 13:17:55 BRUNO IKSIL, JPMORGAN CHASE BANK, says: i think u should set ig9 levels as follows
- $03/16/2012\ 13{:}18{:}03$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: 5 yr at 72
- $03/16/2012\ 13{:}18{:}08$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: 7yr at 88
- $03/16/2012\ 13{:}18{:}24$  BRUNO IKSIL, JPMORGAN CHASE BANK, says:  $10\ \mathrm{yr}$  at 110
- $03/16/2012\ 13:18:53$  JULIEN GROUT, JPMORGAN CHASE BANK, says: well rite now i am 70.25 86.25 109.75
- $03/16/2012\ 13{:}19{:}00$  JULIEN GROUT, JPMORGAN CHASE BANK, says: ref 88.75
- 03/16/2012 13:19:17 JULIEN GROUT, JPMORGAN CHASE BANK, says: i will use your levels
- 03/16/2012 13:19:27 BRUNO IKSIL, JPMORGAN CHASE BANK, says: i see ur levels

Confidential Treatment Requested by JPMORGAN CHASE & CO. JPM-CIO 000561

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

- $03/16/2012\ 13:19:34$  JULIEN GROUT, JPMORGAN CHASE BANK, says: ah ok
- 03/16/2012 13:19:37 JULIEN GROUT, JPMORGAN CHASE BANK, says: one sec
- $03/16/2012\ 13:19:53$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: or u do the corrections ur self
- 03/16/2012 13:20:00 BRUNO IKSIL, JPMORGAN CHASE BANK, says: i do not mmind
- $03/16/2012\ 13{:}20{:}04\ LUIS\ BURAYA, JPMORGAN\ CHASE\ BANK, says: Be back in <math display="inline">15 \mathrm{mins}$
- $03/16/2012\ 13:34:10$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: sent an Email to javier anouncing this is more 300 now
- 03/16/2012 13:34:19 BRUNO IKSIL, JPMORGAN CHASE BANK, says: that was 100 Monday
- 03/16/2012 13:34:22 BRUNO IKSIL, JPMORGAN CHASE BANK, says: it is 300 now
- 03/16/2012 13:34:30 BRUNO IKSIL, JPMORGAN CHASE BANK, says: 1000 for month end?
- 03/16/2012 13:35:08 ERIC DE SANGUES, JPMORGAN CHASE BANK, says: ouch
- $03/16/2012\ 13:35:23$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: well that is the pace
- $03/16/2012\ 13:45:03$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: any update JUlien?
- $03/16/2012\ 13:47:57$  JULIEN GROUT, JPMORGAN CHASE BANK, says: still working on this, sorry it's taking time
- 03/16/2012 13:48:05 BRUNO IKSIL, JPMORGAN CHASE BANK, says: i am sorry too
- $03/16/2012\ 13:48:11$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: this is the end
- 03/16/2012 13:48:18 JULIEN GROUT, JPMORGAN CHASE BANK, says: ?
- 03/16/2012 13:48:18 ERIC DE SANGUES, JPMORGAN CHASE BANK, says: hey hey
- $0\bar{3}/16/2012$  13:48:24 ERIC DE SANGUES, JPMORGAN CHASE BANK, says: no talk like that
- $03/16/2012\ 13{:}48{:}29$  ERIC DE SANGUES, JPMORGAN CHASE BANK, says: cheer up

Confidential Treatment Requested by JPMDRGAN CHASE & CO. JPM-CIO 000561

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

 $03/16/2012\ 13:48:39$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: yes JP will not lose a cent on this

03/16/2012 13:48:59 ERIC DE SANGUES, JPMORGAN CHASE BANK, says:

 $03/16/2012\ 13:49:10$  ERIC DE SANGUES, JPMORGAN CHASE BANK, says: one day after the other

03/16/2012 13:49:20 ERIC DE SANGUES, JPMORGAN CHASE BANK, says: like in 09

03/16/2012 13:49:42 BRUNO IKSIL, JPMORGAN CHASE BANK, says:

 $03/16/2012\ 13:52:00$  BRUNO IKSIL, JPMORGAN CHASE BANK, says: ok call me when u have something ready

03/16/2012 13:53:34 JULIEN GROUT, JPMORGAN CHASE BANK, says: will do

 $03/16/2012\ 13:53:40\ \mbox{JULIEN}$  GROUT, JPMORGAN CHASE BANK, says: sorry it's taking so long again.

 $03/16/2012\ 14:04:03\ \mbox{JULIEN}$  GROUT, JPMORGAN CHASE BANK, says: bruno 9m de new trade?

 $03/16/2012\ 14:04:38\ \mbox{JULIEN}$  GROUT, JPMORGAN CHASE BANK, says: currently -4m

03/16/2012 14:04:42 JULIEN GROUT, JPMORGAN CHASE BANK, says: core

03/16/2012 14:06:21 ERIC DE SANGUES, JPMORGAN CHASE BANK, says: tactical now  $\pm 2.1 \mathrm{M}$ 

03/16/2012 14:13:21 ERIC DE SANGUES, JPMORGAN CHASE BANK, has left the room 03/16/2012 14:55:50 LUIS BURAYA, JPMORGAN CHASE BANK, has left the room 03/16/2012 14:58:47 LUIS BURAYA, JPMORGAN CHASE BANK, has joined the room 03/16/2012 15:00:36 JULIEN GROUT, JPMORGAN CHASE BANK, has left the room 03/16/2012 15:17:02 JULIEN GROUT, JPMORGAN CHASE BANK, has joined the room

Confidential Treatment Requeste by JPMORGAN CHASE & CO.

JPM-CK0 0005614

CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

CIO RISK COMMITTEE (Attachment Below) Subject:

Location: Telepresence Call - Room 10C NY / Room M008 LDN

Start:

Wed, 28 Mar 2012 15:30:00 GMT Wed, 28 Mar 2012 16:30:00 GMT

End:

Show Time Tentative As:

Organizer: Rios, Martha I on behalf of Goldman, Irvin J

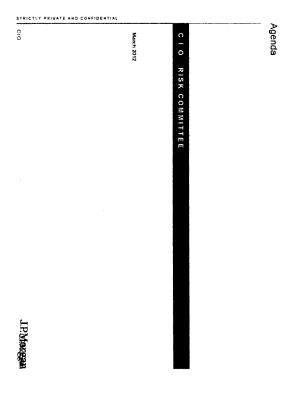
Adam, Phillipa C; Corio, Norma; Drew, Ina; Lewis, Phil; Macris, Achilles O; O'Donnell, Julie; Prata, Joann; Radin, Neila; Sabo, Richard W; Serpico, Gina; Tocchio, Samantha X; Tse, Irene Y; Weiland, Peter; Wilmot, John; Wilson, Wanda A Attendees:

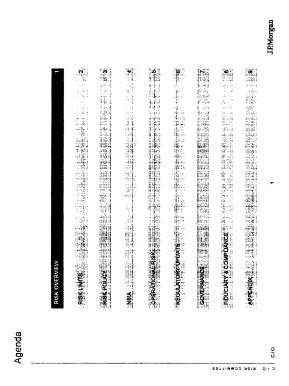
When: Wednesday, March 28, 2012 11:30 AM-12:30 PM (GMT-05:00) Eastern Time (US & Canada), Where: Telepresence Call - Room 10C NY / Room M008 LDN

Note: The GMT offset above does not reflect daylight saving time adjustments.

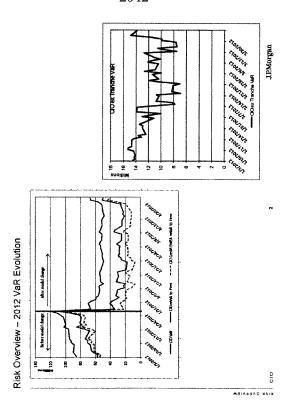
Hard copies will be available in NY / conference room C.

Thanks,

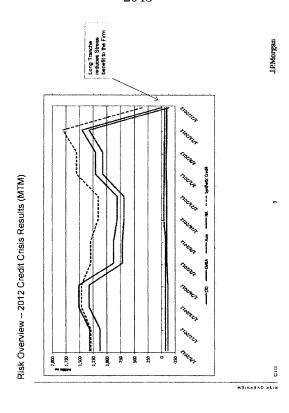




CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

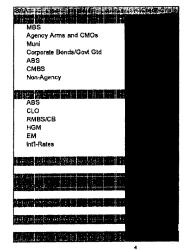






CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

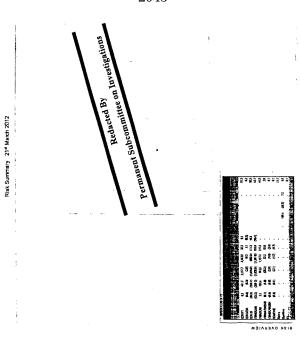
AFS/Accrual Stress Results - Credit Crisis (not currently reported)



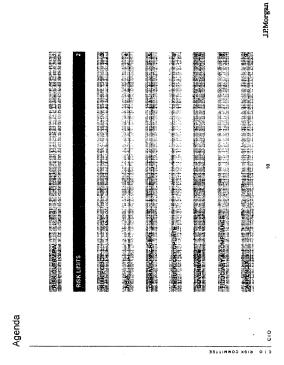
MTM Stress
AFSI Structural Risk Stress
WTM Stress
WTM Stress
AFSI Structural Risk Stress

"MTM stress includes Bank Prefs J.P.Morgan Redacted by the Permanent Subcommittee on Investigat





CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.



CONFIDENTIAL TREATMENT REQUESTED BY J.P. MORGAN CHASE & CO.

#### CIO - Clobal - 10Q VAR(D) Based on all CIC MTM Overlay positions MTM CLOs no longer included GO - Gobal - Aggregate - Combined GO & MSR VAR | Combined GO MTM Overlay positions and MSR RFS-MSR VAR (D) MSR asset and hedges no change QO - Gobal - Max Siress Loss - FSI - Aggregate Stress loss for SAA including MTM Overlay and FXCH AFS includes SAAAFS and Liabilities CO - Gobal - Max Stress Loss - FSI - MTM Stress Loss for MTM positions (accounting view) ncludes prefs, FXOH MTM CIO - FXCH - Max Stress Loss - FSI - Appregate (0) - publicly disclosed Stress Loss for FXCH net open positions

Cirectives Ina

Dimon, Hogan, Drew Level 2 Draw, Goldman/Weiland, Irana/Achilles

Thresholds ins/frene/Achilles, Goldman/Weiland

❖ Currently under review with regional ClOs for final proposal

J.P.Morgan

Risk Limits

Risk Limit Review is in Progress Levels of Limits

. Level 1 limits are granted by the firm (CEO/CRO) to CIO

 Level 2 limits are granted by ins to NA and international - Thresholds may be granted by ine, Irene, or

Achilles

Directives are for business management purposes and are managed internally

Level 1 Limits

Level 2 Limits

## Risk Limits

#### Country Limits

. Firmwide country limits are not allocated by LOB

Final limits proposal will include country thresholds for CIO in accordance with annual investment plans

#### Single Name Limits

- Firmwide Single Name Policy specifically excludes SAA under the concept that SAA investment programs are specifically approved by the SAA Committee and each program should have specific limits attached
- Limits for the bank portfolio and the EM portfolio were agreed to be equal to the ratinge-based firmwide single name limits (green box at right).
- · Positions with current limit issues are below:



2048

. Linds haves 27 March 2012

Redacted By

Permanent Subcommittee on Investigations

CIO

12

# Limit Excesses

Q4	201	1

	. Patil . Patil	11111111111		file da 1557 i
CIO + MSR VAR	11/14, 11/15	145,000,000	148,316,192	2
CIO + MSR VAR	12/7, 12/8	165,000,000	174,545,920	
Ettel hitrillerike	e light is the first	-111	- Data and A	LIERA PORTE
International Net Vega	10/3 -10/31	4,500,000	10,956,067	2

#### Q1 2012

CIÓ 10Q VAR	1/16-1/19	95,000,000	102,385,400	
CIO 100 VAR	1/24-1/26	105,000,000	119,645,588	
CIO Aggregate VAR	1/25, 1/26	110,000,000	123,861,184	
Inti 10Q VAR	1/16, 1/18-1/23	95,000,000	101,827,328	
m1 10Q VAR	1/25, 1/26	110,000,000	117,573,856	
nt1 Aggregate VAR	1/18-1/23	100,000,000	104,252,784	
Int1 Aggregate VAR	1/25, 1/26	110,000,000	121,316,416	

		11 : 1 : 1 : 1	311 (E. 17)	U 8456 1 7 8 11
Int'l 10Q Credit VAR	1/12-1/23	95,000,000	101,721,928	6
Int's 10Q Credit VAR	1/26	110,000,000	112,791,400	1
Int1 Aggregate Credit VAR	1/16-1/23	95,000,000	102,249,800	4
Int'l Aggregate Credit VAR	1/25, 1/26	110,000,000	115,833,400	2
Global Credit CSBPV MTM	1/8, 1/9-2/29	5,000,000	52,090,648	53
Global Credit CSBPV Aggregate	1/18-1/19, 1/25-3/22	12,000,000	54,318,985	43

CIO

13

13

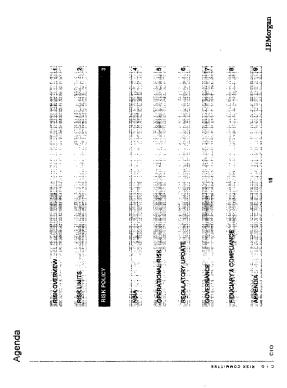
CIO + MSR VAR	145,000,000	165,000,000	Temporary Limit - Expiry 12/12/2011
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Int1 Top Tier Vega (Long Only)	2,000,000	8,500,000	Temporary Limit, expiry extended into Q
Int'l Net Vega (Long Only)	4,500,000	11,500,000	Temporary Limit, expiry extended into Q
Int'l Gross Eguity Vega (Long Only)	6,000,000	18,500,000	Temporary Limit, expiry extended into Q
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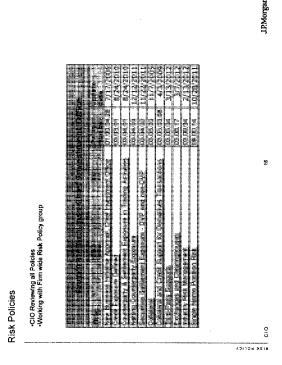
# Q1 2012

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1	CIO 10Q VAR	95,000,000	105,000,000 Temporary Limit - Expiry 1/20/2012
1	Int1 10Q VAR	95,000,000	110,000,000 Temporary Limit - Expiry 1/31/2012
1	Intl Aggregate VAR	100,000,000	110,000,000 Temporary Limit - Expiry 1/31/2012

	er 108,60 ki pili. 1412.	18)	na i si sakan daharan k
Int'l 10Q Credit VAR	95,000,000	110,000,000	Temporary Limit - Expiry 1/31/2012
Int'l Aggregate VAR	100,000,000	110,000,000	Temporary Limit - Explry 1/31/2012
int1 Top Tier Vegs (Long Only)	2,000,000	8,500,000	Temporary Limit, expiry extended until 3/31/2012
Int? Net Vega (Long Only)	4,500,000	11,500,000	Temporary Limit, expiry extended until 3/31/2012
int'i Gross Equity Vega (Long Only)	6,000,000	18,500,000	Temporary Limit, explry extended until 3/31/2012
Int'i Top Tier Delta	250,000,000	500,000,000	Temporary Limit, expiry extended until 3/31/2012

J.P.Morgan

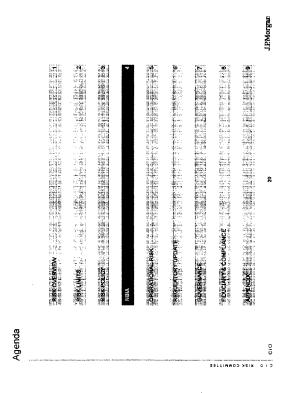




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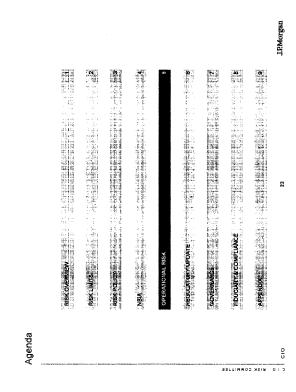


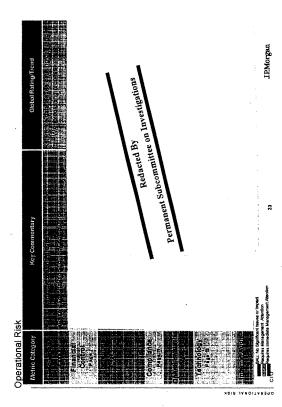
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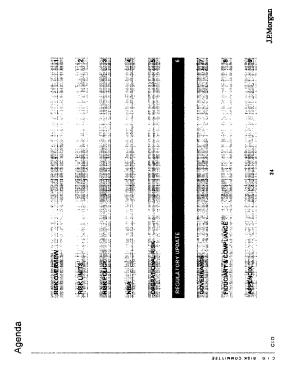
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-Whole Loans
-CRE Loans
-Status Update

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JPM-CIO-PSI-H 0006427

## Regulatory Reform

Volcker Rule:
Final technology build out pending final rule release.
Updating NBIA policy and template as part of Volcker raview.
Continued emphasis on conducting investment activities that are clearly related to underlying firm wide structural risks.
Submitted comment letter related to ALM section of the Volcker rule on February 13th.

■ Derivative Activity

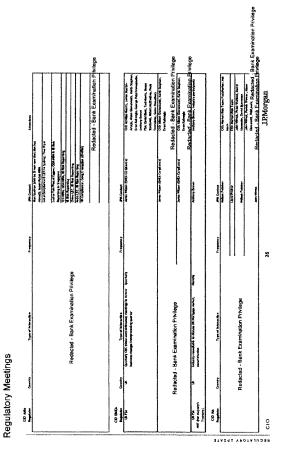
CIO actively working with IB to ensure compliance with evolving requirements.
CFTC revised timetable for rules to be issued mid 2012.

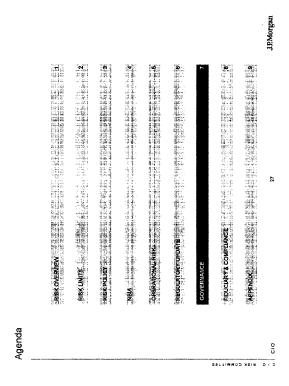
Addressing SEC issue of FAS 133 swap clearance.

- munessing actures a value of riso in a value arance.
 - Firm-wide view or mandatory clearing will go into effect between Q3 and Q4 2012. This will initially encompass a limited product set, likely US\$, Euro and possible Sterling interest rate swaps. Interest rate swaps denominated in other currencies, as well as additional products will follow in a timeframe which has yet to be determined.

2061

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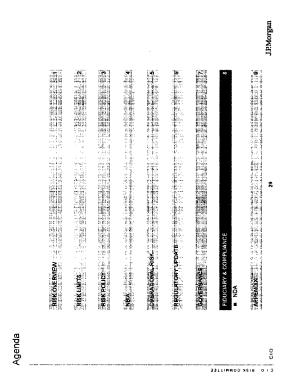


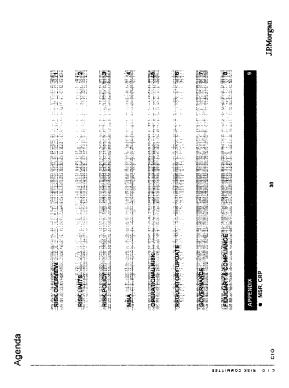
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# Risk Policy

# Model Risk Policy Model Documentation, Inventory and Initial and Ongoing Validation Firm-wide

06/29/2010

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09/28/2004 Effective: Category: LOBs: Special Risk

Updated: 05/29/2010

Policy No.: 08.00.01

Firm-wide

#### Rationale

Understanding model risk is critical to the Firm's assessment and management of risk and to ensuring the integrity of its financial statements. The application of models to value and risk manage financial products, assess portfolio risk and optimize capital allocation, inform decisions about extensions of credit, and support or automate trading and investment decisions continues to expand; all of these uses can have material economic impact on the Firm. Model risk is a joint responsibility of the business operating the model, the model development team, the model validation team, financial/product control and risk coverage, and all of these groups have an important role to play in its control.

Although the usage of a model dictates, to some extent, the procedures associated with model risk controls, there are a number of basic principles of model validation that apply generally. Every model must be adequately documented including description of its use, mathematical/logical specification, and underlying assumptions and algorithms used in its implementation. Adequate model testing must also be performed and documented and the model behavior benchmarked against the original design and specification. Where appropriate, models should also be tested in the context of extreme market conditions. Calibration of model parameters, whether empirical/historical, market implied and/or subjective, must also be thoroughly documented, including a quantification of estimation uncertainty. If a model is designed to output specific decisions and/or automatically take actions, the sensitivity of model outputs to this uncertainty should also be documented. Models need to be independently reviewed by domain experts and their assumptions, limitations and range of applicability clearly identified. Model reviews should take place periodically, especially as warranted by changes in the market or expansion of a business activity. Finally, all major models should undergo periodic performance monitoring; done properly this allows for transparent evaluation of a model's predictive power and also adds an important layer of control around its operational integrity.

#### Scope

This policy establishes Firm-wide standards for model documentation, inventory, testing, and initial and ongoing validation.

For the purposes of this policy, *models* are algorithms that provide a mathematical or statistical representation of a business decision making process. The policy covers *production* models, i.e. models used systematically to facilitate decision making which directly affects financials or risk assessment of the Firm, divided into the following types according to their usage:

- Valuation models, e.g. used for valuation or hedging securities or derivatives.
- Risk measurement models, e.g. used for portfolio risk, economic capital or reserve requirements.
- · Consumer risk models, e.g. used for credit scoring and decisions.
- Decision support tools, e.g. used for investment management decisions.
- Trading models, e.g. used for algorithmic trading or statistical arbitrage.

The policy applies to new models and material changes to existing models, either developed in-house or purchased from third-party vendors.

#### Section 1: Firm-wide Policy Statements

It is the responsibility of the line of business (LOB), to ensure model development is performed in accordance with corporate policy, and that all models used by the LOB are:

- · well tested before their use in production;
- accompanied by appropriate documentation;
- accounted for in an up-to-date model inventory; and
- · subject to initial and ongoing validation.

#### 1. Model Categories

Requirements for model documentation, testing and validation must be commensurate with the level of model risk that a model can pose as applied to a particular product or task. This involves consideration of three dimensions: model complexity, exposure, and reliance.

#### (a) Complexity

Model complexity reflects the significance of a model's dependence on:

- Iterative algorithms and/or numerical solutions to stochastic equations
- Mathematical formulations with a large number of input variables and/or logical layers
- Choice of model variables/assumptions and their accompanying dynamics and inter-relationships
- · Stability of parameters calibrated from historical data or the market
- · Elaborate numerical schemes requiring error analysis
- Non-standard approximations used for computational efficiency
- Approximate treatments of material product features

Examples of models that would typically fall into the high complexity category are capital models based on stochastic simulations, valuation models for complex derivatives or structures, key credit scores containing multiple segments and large number of variables, as well as statistical arbitrage models. Curve generation, cash-flow discounting models, or deterministic decision trees would usually be considered low complexity models.

#### (b) Exposure

Exposure is an assessment of the economic materiality of a model's uncertainty. Generally this reflects the economic consequences of the business activity for which the model is applied, as well as the sensitivity of such activity to model uncertainty. For example, the materiality of a trading model's exposure would typically relate to the portfolio's sensitivity to market inputs. For models used for client valuations and not directly affecting the firm's balance sheet, high exposure could be triggered by high reputational risk.

# (c) Reliance

Reliance measures the extent to which model outputs influence the Firm's financials or business decision processes. E.g. if model outputs directly feed into P&L reporting or risk measurement calculations, the reliance would be high. For a model influencing investment decision in combination with several other models and an expert opinion, the reliance would be low.

Based on the three dimensions above, each model should be classified into Tier 1, Tier 2 or Tier 3 corresponding to high, medium, and low model risk. The substantiation of this classification should be documented by the model owner and signed off by an independent party.

Each tier has the following associated requirements for documentation, testing/validation, ongoing validation, and review/approval.

Model Category	Documentation Requirements	Initial testing and validation	Review and approval	Ongoing validation
Tier 1	Standardized technical and user documentation	Implementation testing documented in testing note  - Model performance evaluation	- Independent in-depth model review with report on findings, documentation adequacy and formal approval decisions	- Periodic model performance analysis - Annual reassessment with a written status report
Tier 2	Comprehensive technical and user documentation	- Implementation testing documented in testing note	- Independent review with report on findings including signoff of model classification, testing and documentation	Annual review of model inventory with a written status report and recertification of model classification into Tier 2
Tier 3	Description of model specification	Basic functional testing	Sign-off by an independent party of model classification into Tier 3	Annual recertification of model classification into Tier 3

# 2. Model Inventory

Each LOB must keep a complete and up-to-date inventory of its models. The records should include proper model references including model/product documentation, documentation of tier classification, version or production date information and the results or status of model review. The LOB should have the capability to generate reports on the status of model documentation and review.

#### 3. Validation

All models should be fully validated and independently reviewed according to model category requirements prior to their usage in production. The LOB should establish escalation mechanisms to track and handle exceptions, including regular reports to control functions and senior management.

Models used by each LOB must be re-assessed annually, according to model category requirements.

#### 4. Materiality Monitoring

Each LOB must establish periodic reporting of exposure materiality for all of its models in order to facilitate assessment of model risk and model classification.

#### 5. LOB Specific Control Procedures

Each LOB must further develop its own policies detailing roles and responsibilities, specific requirements and control procedures around model documentation and review in accordance with the standards outlined in this Policy. Each LOB specific policy must be approved by the LOB Chief Risk Officer and LOB Risk Committee and reviewed by the Corporate Model Oversight function.

#### Section 2: Model Documentation and Review Guidelines

This section outlines guidelines for model documentation and review. When developing their own policies, LOBs may choose to adopt the suggested documentation templates provided in the Attachments, or substitute them with equivalent documentation and review requirements that comply with the Policy Statements in Section 1.

#### 1. Model Documentation

Model documentation must be completed prior to model review. Documentation should be sufficient to permit independent review and to facilitate potential replication and/or upgrade of the model by others, independent of the original developer. For Tier 1 and Tier 2 models, documentation should contain the following components, as applicable and required by LOB model policy and procedures:

# (a) Technical documentation

- Rationale for the choice of the model concept and approach.
- Justification of the introduction of a new model, if an alternative model already exists, including numerical/statistical comparisons between the new model and models to be replaced.
- Model's intended use, limitations and scope.

- Description of underlying methodologies, including theoretical results that are derived from the assumptions.
- Justification of the use of input data in terms of accuracy, robustness, and appropriateness.
- Details of the model's construction and numerical techniques.

#### (b) Testing note

- Description of the nature of the testing effort and testing plan.
- Numerical details of implementation tests and analysis of the results against designed specifications of the model.
- For models with explicit reliance on a specified range of market inputs, tests checking reasonableness and smoothness of model sensitivities to market inputs and/or other applicable risk measures.
- Where appropriate, numerical comparisons between the model being tested and benchmark models or historical backtesting of the model predictions.
- Where applicable, analysis of model behavior under stressed market conditions.

# (c) User guide (for models or tools run directly by business users)

- General description of the product or tool and key assumptions.
- The intended use (e.g. valuation, risk measurement, or investment decision).
- · List of all inputs and outputs.
- Model limitations.
- · Boundaries of input parameters within which the model works properly.

# (d) Calibration document (for models calibrated to market inputs or historical data):

- · High level description of the engine or tool, and covered products.
- · List of calibrated parameters.
- Calibration benchmarks and algorithm.
- Criteria for successful calibration and treatment of calibration failures.
- Frequency and triggers for recalibration.
- Data smoothing and manual overrides.
- Ownership of calibration and sign-off procedures.

See Attachment A for suggested model documentation templates.

Documentation for new models that are variations of other production models (e.g. flexible payoffs) can consist of a description relative to the existing model and a reference to the existing model documentation.

#### 2. Implementation Testing

Implementation Testing is the process of ensuring that the model behaves as intended by its developers. This testing focuses on faithful implementation of deterministic algorithms and numerical accuracy/convergence where applicable

rather than the reasonableness and appropriateness of the model to a given set of financial circumstances.

Implementation Testing is conducted by model developers supporting the LOB. The model developers performing the testing should consider the following, as applicable and required by LOB model policy and procedures:

- Comparison of model results with the analytical solutions and/or with an independent implementation of the same model
  - Under the full range of each model parameter including stressed scenarios; and
  - Under all scenarios of correlation amongst model parameters.
- Analysis of numerical accuracy for iterative algorithms, including comparisons with alternative numerical schemes.
- Checking desired properties of model output (e.g. smoothness of the model implied hedges, correct pricing of similar products).
- Checking model's ability to price another (generally simpler) product consistently with the approved approach.

#### 3. Model Review

A Model Review is an independent review by a qualified person who is not the model developer. It assesses the appropriateness of the model methodology as applied to a specific product or task, signs off on the quality of testing and documentation, and identifies potential model risks. All Tier 1 and Tier 2 models are subject to independent review.

Model reviewers must consider the following aspects of a model, as applicable and required by LOB model policy and procedures:

- The rationale for model assumptions and methodology.
- The selection and reliability of model inputs.
- The adequacy of model documentation and calibration procedures.
- The completeness of implementation testing.

  Justification of using the model if alternative models are available, and results of model benchmarking.
- Model adjustments or reserves to account for model uncertainty or deficiencies.
- Additional independent testing.

Review findings should be published in the Model Review/Sign-off Report that contains:

- Model review conclusion (approved/signed off, or disapproved).
- Scope of review (model application to a particular product or task).
- List of identified model risks.
- Actions required to remediate critical model shortcomings that are identified.

- Recommended improvements to remediate model shortcomings identified that are not critical.
- Replies from other groups received during the course of the review.

The report must be sent to the following individuals, as appropriate:

- Head, or Chief Risk Officer, of the business unit that owns the model.
- · Head of the business area's modeling or quantitative support team.
- Others specified by LOB model policy and procedures.

In cases where a review is conducted at an intermediate stage of model implementation, it may result in a Progress Report with no final conclusion on model approval. Progress reports will otherwise follow the same format as Model Review, documenting potential model risks and recommendations on model enhancements.

See Attachment B-I for suggested report templates.

#### 4. Model Disapproval

The following issues can trigger model disapproval for Tier 1 or Tier 2 models:

- · Methodological problems.
- Insufficient implementation testing.
- Incomplete model documentation.
- Failure by relevant parties to satisfy recommendations agreed upon in the course of the model review in a timely fashion.

Upon disapproval of a model, the business unit must, as required by the LOB model policy and procedures, provide a timetable for remediation steps and take other immediate actions that might be deemed necessary to mitigate the model risk (e.g. deferring P&L, adjusting reserve, limiting affected business activity).

If Tier 2 or Tier 3 model classification is not signed-off, it will result in

- Model re-classification into a higher Tier.
- Change of documentation and review status into 'incomplete' until it complies with the requirements for its new category.

# 5. Annual Review

Each LOB must ensure all of its models are re-assessed annually in light of:

- New developments in the literature or internal or commercially available models.
- Changes in the market for the product (e.g. availability of liquid quotes for model input or major growth in volume).
- · Change in the features of the product or portfolio.
- Back-testing of the model and experience with effectiveness of its application.
- The materiality of model risk.

For each LOB or asset class the annual review of model inventories must be summarized in an annual review status report containing:

- · An overview of the overall models review status.
- · Model review strategy and plan.
- · Status of critical recommendations.
- Re-assessment of the need to re-review each Tier 1 model.
- Re-certification of Tier 2 and Tier 3 model classification.

See Attachment B-III for suggested annual report template.

#### 6. Ongoing Validation

In addition to the model testing and review process, all Tier  $\bf 1$  models are subject to periodic validation to assess their ongoing performance.

The validation should be based on a comparison of empirical model output from the production environment (where feasible) against realizations of the process being modeled.

Examples of ongoing validation approaches include:

- · Examination of consumer default rate by model score range.
- · Historical back-testing.
- Comparison against benchmark models using actual or representative portfolios.
- Assessment of predictive performance (e.g. residual P&L monitoring, forecasting error, etc.).
- In some applications, it may be useful to analyze the errors and stability
  of calibrated parameters in addition to or as an alternative to directly
  testing the model outputs.

The ongoing validation is performed or, at minimum, reviewed independently. Such validation should be rated based on objective metrics specified by the LOB model policy and procedures. The business unit must provide remediation timetable and plans for models with unsatisfactory validation ratings.

# **Regulatory Requirements**

Model documentation and independent reviews are required by Bank regulators, and are subject to periodic regulatory examinations.

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# Attachment A - Model Documentation Templates

#### Note:

For all the Attachment templates listed below, the following conventions are used:

- 1. Examples are shaded in gray;
- 2. The numbers in square brackets, e.g. [1,2], refer to the numbered document references at the end of that template.

Attachment A-I: Complex Model Technical Document

Attachment A-II: Complex Model User Guide

Attachment A-III: Complex Model Testing Note

Attachment A-IV: Complex Calibration Document

Attachment A-V: Standard Model Document

# Attachment B - Model Review Templates

Attachment B-I: Model Review Report

Attachment B-II: Model Sign-off Template

Attachment B-III: Annual Status Report

# Attachment C - Model Stress Scenarios

Attachment C-I: Model Stress Scenarios Document

be	2011 model (linear sensitivity)		2012 model (full reval)
	2011	69,721,144	
	2011	69,985,664	
	2011	69,997,256	
	2011	70,364,384	
	2011	71,605,072	
	2011	75,228,504	
	2011	78,862,552	
	2011	79,676,616	
12/13		77,621,992 76,802,760	***************************************
	2011	74,139,448	
	2011	72,551,456	
	72011	73,137,938	
	/2011	70,708,344	
	/2011	70,965,016	
	/2011	73,926,360	
	/2011	73,560,016	
	/2011	73,427.040	
	/2011	75,292,272	
	/2011	76,600,112	
	/2011	76,814,152	
	/2012	85,302,073	
	/2012	87,407,773	
	/2012	89,734,784	
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	/2012	88,137,498	
	/2012	92,374,487	
	72012	92,944,202	
	/2012	94,549,716	
	/2012	95,681,928	
	/2012	95,683,649	
	V2012	102,385,407	T .
	V2012	99,936,350	
	V2012	100,116,638	1
	V2012	102,719,140	
	/2012	106,610,295	
	V2012	111,799,222	
	V2012	119,645,579	<u> </u>
	72012	132,770,187	
	V2012	134,079,796	69.486
	/2012	134,391,424	56,544,
	1/2012	129,238,948	59,197,
	2/2012	129,192,194	59,000,
	3/2012	130,084,791	56,713,
2	5/2012	125,188,831	53,872,
2	7/2012	126,986,625	
2	N/2012	126,997,110	
2	9/2012	126,721.883	
	0/2012	128,739,678	
2/	3/2012	127,801,135	7
	4/2012	129,299,896	
	5/2012	128,213,506	
	6/2012	126,451,910	
2/.	0/2012	127,465,158	48,978
27.	1/2012	130,500,600	
	2/2012	131,251,222	50,279

	CIG 100 VaR	وم المساول والمساولات الكرا
Smm		
Pats	2011 model (linear sensitivity)	2012 model (full reval)
2/24/2012	129,967,122	50,150,896
2/27/2012	130,897,447	52,790,300
2/28/2012	131,607,048	53,061,688
2/29/2012	132,833,196	54,163,684
3/1/2012	132,561,541	53,315,732
3/2/2012 3/5/2012	133,704,054	51,535,512
3/6/2012	136,605,714 140,726,881	50,958,292 54,894,036
3/7/2012	140,954,444	53,079,872
3/8/2012	140,876,074	52.147.800
3/9/2012	138,216,452	50,675,768
3/12/2012	138,657,002	51,579,020
3/13/2012	137,321,689	49.821,896
3/14/2012	138,617,153	47,769,800
3/15/2012	140,792,235	49,003,672
3/16/2012	140,695,109	49,957,628
3/19/2012	141,721,584	51,008,796
3/20/2012	140,211,213	52,105,512
3/21/2012	159,445,863	56,768,524
3/22/2012	182,390,344	66,307,760
3/23/2012	185,427,818	66,678,812
3/26/2012	180,382,783	64,077,248
3/27/2012	182,154,086	63,716,788
3/28/2012	187,165,476	63,188,376
3/29/2012	187,431,999	64,495,780
3/30/2012	185,818,727	64,452,292
4/2/2012	188,598,767	64,407,186
4/3/2012		54,163,070
4/4/2012		68,657,551
4/5/2012		69,402,030
4/6/2012		68,010,389
4/9/2012	The state of the s	\$8,135.825
4/10/2012		77,270,089
4/11/2012		77,137,104
4/12/2012	(	74,260,086
4/13/2012		77,718,189
4/16/2012		78,364,970
4/17/2012	<del>                                     </del>	75,131,49-
4/18/2012 4/19/2012	I am a minimum to	77,521,06
4/19/2012 4/20/2012	***************************************	80,473,345
4/23/2012		80,242,25 86,226,35
4/24/2012		84,906,17
4/25/2012		87,689,55
4/26/2012		90,853,83
4/27/2012		88,608,58
4/30/2012		94,590,113
5/1/2012	4	92,218,68
5/2/2012		93,336,35
5/3/2012		93,117,02
5/4/2012		93,218,96
5/7/2013		93,840,21
5/8/2012		84,595,66
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JPMORGAN CHASE & CO.

# **Risk Policy**

# Market Risk Limits Firm-wide

Updated 05/18/2011

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#### Rationale

This policy sets out the roles and responsibilities for establishing, reporting, and managing market risk limits. Responsibility for implementing this policy rests with the Firm's Chief Risk Officer (CRO), the Line of Business CROs, Business Units and their Middle Offices, Market Risk (MR), Risk Reporting and Finance (RRF), IB Market Risk Reporting (IB MRR) and IB Finance.

# **Changes From Previous Version**

- Combines IB and non-IB Market Risk Limits policies.
- Further defines the responsibilities of the Business Middle Offices and Finance groups.
- Defines Firm-wide limits procedures.

Effective: Category: 05/18/2011 Market Risk Updated:

05/18/2011

Policy No.: 04.00.02

**Confidential Treatment Requested** 

JPMC-Senate/Levin 000157

#### **Key Points**

- This policy applies whenever the Firm or a Line of Business assumes market risk from trading, funding, underwriting or investment activities, arising from client business, other business, or from managing its structural risk.
- This policy grants various authorities to approve limits and excesses.

#### **Policy Statements**

- 1. This policy applies Firm-wide.
- 2. Limits are established by MR and business heads.
- Where limits are established and approved:
  - Market risks borne by a Business Unit should not exceed its limits, unless expressly authorized under a One-off Approval.
  - RRF and IB MRR must:
    - Distribute limit utilization reports for the close of each business day to MR and Business Units;
    - Monitor limit utilization for data quality; in cases of suspected data quality issues and/or inappropriate methodology, RRF and IB MRR should seek guidance from MR prior to distributing limit utilization reports:
    - Notify Signatories to limits of all Valid Limit Excesses (defined below).
  - MR must:
    - Promptly verify the validity, and document the reasons for, any Valid Limit Excess:
    - o Monitor limit utilizations for limit excesses.
  - · A One-off Approval may be given by the Grantors of Limits.
  - If a Business Unit has a limit excess before a One-off Approval is given, the Business Unit must take steps to reduce its exposure to be within limit, unless an exception is granted by the Grantors of Limits.
- 4. Limits are intended to constrain both intra-day and close of business exposures. As part of their management responsibilities, business and desk heads are expected to be generally aware of their intra-day risk levels, and are responsible for enforcing this policy.
- MR must conduct periodic reviews of market risk limits (at least semiannually). Changes to limits must be signed-off by the Signatories to Limits.

- 6. Where thresholds are established:
  - Business Units can exceed thresholds, so long as they do not exceed their market risk limits.
  - RRF and IB MRR must:
    - Distribute threshold utilization reports for the close of each business day to MR and Business Units, as required;
    - Monitor threshold utilization for data quality; in cases of suspected data quality and/or inappropriate methodology, RRF and IB MRR should seek guidance from MR prior to distributing threshold utilization reports.
  - MR must:
    - o Promptly verify the validity of any threshold excess;
    - o Monitor threshold utilizations for threshold excesses.
- 7. Exceptions to this policy must be approved by the Firm's CRO.

#### Firm-wide Limits

The Firm's Board of Directors has delegated responsibility for establishing and managing market risk limits to the Operating Committee, which, in turn, has delegated authority to the Firm's CRO. The Firm's CRO, in conjunction with the LOB CROs, establishes Firm-wide market risk limits.

Market Risk Limits are reviewed annually by the Board's Risk Policy Committee. Thresholds generally are not established at the Firm-wide level.

# Establishing & Approving Market Risk Limits

Limits are classified as Level 1 (highest level) or Level 2. Limits are granted and delegated in the following way:

	Grantors:	Grantees:
Firm-wide Limits	JPMC Chief Risk Officer, as delegated by the JPM Board	JPMC Chief Executive Officer and JPMC Chief Risk Officer
LOB Limits	JPMC Chief Executive Officer and JPMC Chief Risk Officer	Head of LOB, LOB Chief Risk Offic and/or Head of LOB Market Risk
Business Area Umits	Head of LOB, LOB Chief Risk Officer and Head of LOB Market Risk	Head of Business Area and MR Executive responsible for Busines Area

Lavel 2 Limits	Signatories to Limits	
	Level 2 Limits and One-Off Approvals are self-approved by the following:	
LOB Limits	Head of LOB and	
	LOB Chief Risk Officer and/or Head of LOB Market Risk*	
Business Area Limits	Head of Business Area and	
	MR Executive responsible for Business Area	

^{*} Where an LOB has both a CRO and Head of Market Risk, both approvals are required, however where an LOB does not have both a CRO and Head of Market Risk, only one approver is required.

#### **Monitoring & Reporting Limit Utilizations**

#### MR is responsible for:

 Monitoring limit utilizations. In certain circumstances, reporting may be carried out by MR (e.g., piloting new reports).

#### RRF and IB MRR are responsible for:

- · Reporting limit utilizations daily.
- Distributing daily position and drawdown summary reports to senior management, including CROs, LOB Heads, Business Area Heads, Business Units Heads, MR Heads, and MR Executives. Reports should be tailored to meet the requirements of the intended recipients, and include:
  - Limits and limit utilizations for LOB and Business Areas;
  - o Trend information (e.g., five-day and monthly trends);
  - Limit excess information. Details of all excesses should be reported (e.g., size, duration, reason for excess, whether the validity of excess is under investigation).

# Market Risk Middle Office Is responsible for:

· Accuracy of reference and market data.

# **Business Middie Office is responsible for:**

• Uploading data feeds to market risk systems per Service Level Agreements.

# Finance/Product Control and/or Business Middle offices are responsible for:

- Providing risk information to RRF and IB MRR for exposure calculation and monitoring against limits. Where this information is not available, risk information may be obtained from non-independent sources, i.e. trading-desk originated reporting, but only where necessary;
- Attesting to the accuracy and quality of the data provided to MR;

- Reconciling data delivered for VAR, Stress, Single Name, Country, Specific
  Risk and other market risk calculations to an independent file / data store,
  such as the general ledger, front office or risk aggregation systems to ensure
  accuracy and completeness, and for signing off on the reconciliation of this
  information in the market risk systems, daily, or as required;
- · Accuracy of any P&L Information supplied to RRF and IB MRR.

## **Limit Excesses**

Limit excesses fall into four categories:

- Valid Excess
- Invalid Excess
- Under investigation Limit Excess
- Acknowledged Limit Excess

### **Valid Limit Excess**

Occurs when a correctly calculated limit utilization exceeds the corresponding limit. MR must verify whether a limit excess is valid. Valid Limit Excesses may be:

- o Active: or
- o Passive.

## **Active Limit Excess:**

Occurs when a Business Unit exceeds its own limit; the Business Unit must take immediate steps to reduce its exposure so as to be within the limit, unless a One-off Approval is granted.

## **Passive Excess:**

Occurs when a higher level (or shared) limit is exceeded as a result of a number of lower level active limit excesses in different Business Units, or an excess of an aggregated limit without lower level active limit excesses. MR should coordinate with the affected Business Units to resolve the excess.

## **Invalid Limit Excess**

Occurs when MR has determined that the excess is not a Valid Limit Excess, but is the result, e.g., of incorrect systems feeds, or the wrong measurement methodology. Invalid excesses should not be reported as Limit Excesses.

# **Under Investigation Limit Excess**

Occur when a Limit Excess is under review, and should be labeled as such by RRF and IB MRR.

## **Acknowledged Limit Excess**

Occurs when MR has determined that an excess is Valid, but that no further action can be taken to reduce exposure (e.g., drawdown excesses). Acknowledged Limit Excesses must be approved by Signatories to Limits.

## **Notification of Limit Excesses**

## **Notification of Limit Excesses**

RRF and IB MRR must report all Valid Limit Excesses, Under Investigation Limit Excesses and Acknowledged Limit Excesses to:

- the Signatories to the Limit;
- the weekly IB Markets Meeting and other LOB Risk Committee meetings;
- . Risk or LOB Business Control Committee meetings.

The notification sent to Limit Signatories should include:

- Description of the Limit Excess;
- Limit value;
- Exposure value and excess percentage;
- · Number of consecutive days the limit has been in excess.

## One-Off Approvais

A Business Unit which has a Limit Excess must take immediate steps to reduce its exposure so as to be within the limit. However, situations may arise when position closure is not possible or desirable. In such circumstances, exceptions may be given by the Grantors of Limits by way of One-off Approvals or changes to existing limits.

Any request for a One-off Approval must be in writing, and describe the risks, and:

- o Size and tenor of business opportunity or specific transaction;
- Limit(s) that would be exceeded and expected duration of the excess;
- o Exit strategy, where appropriate.

## No Market Risk Limit

Where a Business Unit has no market risk limit, and needs to enter into a transaction that gives rise to market risk, a One-off Approval may be granted by the LOB CRO, or, in the case of the Investment Bank, the Head of IB MR, or his designate.

# **Limits Review**

MR should conduct periodic (at least semi-annual) reviews of market risk limits as part of its holistic analysis of the Firm's market risk.

Approving limit changes as part of the limits review

 Revised limits, to be binding, must be signed-off by the Signatories to Limits, normally via email, whereupon the superseded limits will cease to exist. Approval e-mails must be retained in accordance with the Firm's document retention policies.

#### **Thresholds**

With the agreement of a business unit and MR, thresholds may be established to supplement the market risk limits described above. RRF and IB MRR are responsible for reporting threshold utilizations daily to MR and to the businesses as required.

The following applies to thresholds:

- Thresholds need only the agreement of the LOB or Business Unit and its corresponding MR executive.
- MR coverage is responsible for monitoring and validating excesses to thresholds.
- It is not required that immediate steps be taken to bring threshold excesses within threshold levels, given that they do not cause a limit excess; however MR may escalate threshold excesses as needed.
- Threshold excesses do not require One-off Approvals.
- Thresholds excesses should be reported in aggregate to MR and LOBs daily.

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From:

Hubbard, Bryan

To: BCC:

ruuciaro, kryan

Al Zibel <alan.zibel@dowjones.com>,Ben Protess <ben.protess@nytimes.com>,McGrane, Victoria
<Victoria.McGrane@wsj.com>,Puzzanghera, Jim <Jim Puzzanghera@latimes.com>,
<Shahien.Nasiripour@FT.Com>,Lindsey White <LWhite@snl.com>,Jeff Bater <br/>
Shahien.Davidson@sourcemedia.com>,<ben.pelbaum@nytimes.com>,
<David.C.Clarke@thormsonreuters.com>,<pcoy3@bloomberg.net>,<no@csmonitor.com>,

<tzwillich@gmail.com>

Sent: Subject:

5/14/2012 9:29:40 PM OCC on JPMC Trading

## Greetings

Many folks have asked for clarification/confirmation on whether the OCC believes whether the Volcker rule would have prohibit JPMC activity that has been in the news since last Thursday. The following information is attributable to an OCC spokesman.

It is premature to conclude whether the Volcker Rule in the Dodd-Frank Act would have prohibited these trades and the hedging activity conducted by JPMC. The "Volcker Rule" law is not in effect yet, and regulations implementing the law have been proposed, but not yet adopted as final rules by regulators. Even if both were assumed to be in effect, the transactions at issue are complex and whether they would qualify for exceptions under the statute or proposed rule requires careful analysis. The OCC and other regulators are gathering additional details regarding the transactions to determine the full regulatory implications of these activities and the proposed rules currently being considered. Previous positions attributed to OCC staff were based on incomplete details.

Others have asked whether the OCC has a stated position on whether such positions should be prohibited by the pending Volcker rule. That rule is still in development and it would be inappropriate for me to comment on that.

### What is the OCC doing now?

The OCC is examining the bank's activities and is in continuous dialogue with bank personnel and other regulatory colleagues as we evaluate details related to the specific transactions as well as the surrounding risk management processes that resulted in this unexpected loss.

Our examiners are also evaluating risk management strategies and practices in place at other large banks to validate our understanding of inherent risk levels and controls of these risks.

Asset-liability management is a core and essential function for all banks. Identifying, measuring, monitoring, and controlling liquidity, interest rates risk, foreign current translation risk, and credit risk is fundamental. The OCC expects banks to proactively manage these risks.

The loss by JPMC affects its earnings, but does not present an issue of safety or soundness for the bank.

Bryan Hubbard Director, Public Affairs Operations Office of the Comptroller of the Currency bryan.hubbard@occ.treas.gov 250 E St SW (RM 9060) Washington DC 20219 (202) 874-5307

BANK PROPRIETARY AND/OR TRADE SECRET INFORMATION

From:

Waterhouse, Scott

Waterhouse, 3con
Sprosnan, Mike>;<Belshaw, Sally>
5/11/2012 2:58:22 PM
RE: J.P.Morgan Chase

To: Sent: Subject:

Just FYI — we did an examination of the CIO at the end of 2010 and have a follow-up planned soon. We had some concerns about overall governance and transparency of the activities. We received a lot of pushback from the bank, Ina Drew in particular, regarding our comments. In fact, Ina called Crumlish when he was in London and "stemty" discussed our conclusions with him for 45 minutes. Basically she said that investment decisions are made with the full understanding of executive management including Jamie Dimon. She said that everyone knows what is going on and there is little need for more limits, controls, or reports. At the conclusion of the exam, we issued the following MRA.



It just goes to show that it is difficult to always be smarter than the market. Humility is good,

From: Brosnan, Mike Sent: Friday, May 11, 2012 10:35 AM To: Belshaw, Sally; Waterhouse, Scott Subject: Fw: J.P.Morgan Chase

From: Brosnan, Mike Sent: Friday, May 11, 2012 10:20 AM To: Curry, Thomas; Williams, Julie Subject: Re: J.P.Morgan Chase

At end of day they are good at financial risk mngt. But they are human and will make mistakes (big loan losses, trading losses, litigation etc). But on grand scheme they are good. This will humble them - a healthy and good thing

From: Curry, Thomas Sent: Friday, May 11, 2012 10:12 AM To: Brosnan, Mike; Williams, Julie Subject: RE: J.P.Morgan Chase

Thanks. Isn't it a little more than embarrassment issue? While it may not be material, it does implicate their risk management abilities doesn't it?

From: Brosnan, Mike Sent: Friday, May 11, 2012 10:00 AM To: Curry, Thomas; Williams, Julie Subject: FW: J.P.Morgan Chase

Fyi - international colleagues will be asking and here's what I sent to bafin.

From: Brosnan, Mike Sent: Friday, May 11, 2012 9:58 AM To: 'Daniel.Mestek@bafin.de'

Cc: Ludger, Hanenberg@bafin.de; Peter, Kruschel@bafin.de; 'Sarah, Dahlgren@ny, frb.org'; Tim.P. Clark@frb.gov Subject: PW: J.P. Morgan Chase

At this point there is a lot of public information as bank issued 10-q filing and had call with analysts last night.

The transactions in question were part of their asset-liability management process (alco) which jpmc refers to as the chief investment office (cio). Here are my take-aways

- Back in 2007-08 they put on a short credit risk position to protect against a declining economy. This was a
- macro hedge.

  Over the past few years this hedge worked as the economy declined, credit spreads widened (causing gains on the hedge) but these gains were of course offset as they took credit losses (for example Kodak, American airlines etc.). note, the derivatives positions are mtm while the loan portfolio is primarily cost accounting. This presents complexities for analysts etc.

  After evaluating macro environment in 4q11, actions were taken in early 2012 to reduce the short position --
- by entering long position in other credit risk indices.
  The new transactions had different betas and basis risk.
- As recent marks show the bank mis-estimated the basis risk (while their short position did gain with recent upward shift in credit spreads, the long position had losses beyond original estimates). the overall impact of recent marks on 1q12 p/l resulted in a change from cio's previous estimate of a \$200mm gain to last right's announcement of a \$800mm loss (\$1b swing).
- The micro positions in question are now in control of risk manager

The overall result will be a reduction in 2q12 earnings, and I think the bank has informed market there is a good chance the adjustments underway could result in some earnings impact for one or two future quarters as well. Also, they changed risk models which will result in higher rwa and this will cause tier one common ratio to drop from 8 4 to 8 2, obviously there isn't a safety issue with these numbers, but there is an embarrassment issue for bank leadership which has overtly expressed pride in their ability to measure and control risk.

From: Daniel.Mestek@bafin.de [mailto:Daniel.Mestek@bafin.de]
Sent: Friday, May 11, 2012 8:39 AM
To: Brosnan, Mike; Tim.P.Clark@ftb.gov

Cc: Ludger.Hanenberg@bafin.de; Peter.Kruschel@bafin.de Subject: J.P.Morgan Chase

BANK PROPRIETARY AND/OR TRADE SECRET INFORMATION

# Dear colleagues

As you may know, BaFin is in charge of supervising J.P.Morgan AG, an indirect subsidiary of J.P.Morgan Chase & Co, New York. Furthermore, J.P.Morgan Chase's Frankfurt branch is under our supervision.

Regarding the latest news on major losses of J.P.Morgan's US business, we would be grateful if we could get insight into both the background of the transaction(s) leading to the reported losses as well as any supervisory action (to be) undertaken by you.

Therefore, it would be greatly appreciated if you could as soon as possible either provide us with respective information in written form or, as an alternative, if we could set up a telephone conference.

Daniel Mestek, LL.M.
Bundesanstalt für Finanzdienstleistungsaufsicht
Referat BA 16: Aufsicht über ausländische Banken aus Amerika, Schweiz, Asien (ohne arabische Staaten), Australien
Federal Financial Supervisory Authority
Section BA 16: Supervision of foreign banks from the USA, Switzerland, Asia (excluding the Arab states) and Section BA 16. Supervision of RAUStralia Graurheindorfer Str. 108 53117 Bonn Fon: +49(0)228 4108-3787 Fax: +49(0)228 4108-63787 e-mail: daniel.mestek@bafin.de

Crumlish, Fred From: Citations, 1 Fee Belshaw, Sality 4/10/2012 12:41:37 PM RE: JPM CIO trades— JPMorgan's Iksii May Spur Regulators to Dissect Trading - Bloomberg News -To: Sent: Subject: We asked to confirm booking. Likely bank chain *** If you have received this message in error, please delete the original and all copies, and notify the sender immediately. Federal law prohibits the disclosure or other use of this information. *** From: Belshaw, Sally
Sent: Tuesday, April 10, 2012 8:39 AM
To: Crumlish, Fred
Subject: RE: JPM CIO trades—JPMorgan's Iksil May Spur Regulators to Dissect Trading - Bloomberg News - 4/9/12 Just to confirm, this is in the bank/branch, right? From: Crumlish, Fred
Sent: Tuesday, April 10, 2012 8:38 AM
To: Belshaw, Sally
Subject: RE: JPM CIO trades—JPMorgan's Tksil May Spur Regulators to Dissect Trading - Bloomberg News - 4/9/12 thanks - apc *** If you have received this message in error, please delete the original and all copies, and notify the sender immediately. Federal law prohibits the disclosure or other use of this information. *** From: Belshaw, Sally
Sent: Tuesday, April 10, 2012 8:34 AM
To: Crumilsh, Fred; Waterhouse, Scott
Subject: FW: JPM CIO trades-- JPMorgan's Iksil May Spur Regulators to Dissect Trading - Bloomberg News - 4/9/12 FYI. Sally From: Belshaw, Sally From: Belshaw, Sally
Sent: Tuesday, April 10, 2012 8:33 AM
To: Pfinsparif, Martin; Brosnan, Mike
Cc: Lyons, John; Belshaw, Sally
Subject: RE: JPM CIO trades—JPMorgan's Iksil May Spur Regulators to Dissect Trading - Bloomberg News - 4/9/12 Sounds like Fed and our folks in NY are getting info on this. I would think Fred will decide if there is more we need to do based on his comfort level. I'll make him aware of your concern, but he itate to launch something based on supervision-by-newspaper. Let's see what we get in this next round of info the bank is providing. Sally

From: Pfinsgraff, Martin From: Prinsgram, Martin
Sent: Tuesday, April 10, 2012 8:22 AM
To: Belshaw, Sally; Brosnan, Mike
Cc: Lyons, John
Subject: RE: JPM CIO trades— JPMorgan's Iksil May Spur Regulators to Dissect Trading - Bloomberg News - 4/9/12

Would it make sense for McQuade and/or Vourvoulias to also go in under Crumlish's guidance to validate that the desk activities in London are consistent with the story being provided by JPMC NY? This is clearly getting scrutiny and comment from the likes of Merkely and Levin. It would be good if we can demonstrate that we took all measures to review this activity and at both the macro and micro level when we respond to the questions that will inevitably arise.

Marty

From: Belshaw, Sally
Sent: Tuesday, April 10, 2012 8:12 AM
To: Brosnan, Mike
Cz: Pfinsgraff, Martin
Subject: FW: JPM CIO trades-- JPMorgan's Iksil May Spur Regulators to Dissect Trading - Bloomberg News - 4/9/12

Just to keep you in the loop, Mike. Julie sent an e-mail earlier saying we should perhaps have an answer ready in case Mr. Curry inquires about this and also, I think, to understand Volker rule implications. I'm copying Marty on info since he's also a likely one to get questions.

From: Crumlish, Fred

From: Crumlish, Fred
Sent: Tuesday, April 10, 2012 8:00 AM
To: Waterhouse, Scott
Cc: Wilhelm, Kurt; Beishaw, Sally; Atkins, Glenn; Banks, George; Berg, Jaymin; Fursa, Thomas; Hohl, James; Kamath, Jairam;
Kirk, Mike, Monroe, Christopher; Wong, Elwyn
Subject: JPM CIO trades— JPMorgan's Iksil May Spur Regulators to Dissect Trading - Bloomberg News - 4/9/12

CIO is in the news again today (See following). A quick recap of where we are. I have copied Sally and Kurt in anticipation of questions:

As you know we had a call with Chief Investment Officer Ina Drew and others in JPM yesterday, along with the frb. The trades that are getting press coverage now are part of a program to reduce a an existing hedge on credit risk stress losses. Mgmt felt this stress loss hedge became overhedged as credit risk lessened in 2011, and so used the IG9 to adjust it. Unfortunately the IG9 index has also seen reduced trading volume and market participants, so that JPMC's trades probably further decreased liquidity in the index. JPMC's credit stress hedge is again where they want it, and there is no significant further trading planned on this strategy. JPM did say that, if they had to do it all over again, they would have used a different index. My sense is that they misread the liquidity in the market. CIO really doesn't like to draw attention to itself.

We asked the bank for a number of items yesterday that reflect details on the trades and support the stress loss hedge rationale associated with this specific strategy. We expect this sometime today. FYI the stated purpose would be consistent with the CIO's mandate to hedge overall structural balance sheet risk. Most notably this includes interest rate risk in the banking book, the MSR, and FX translation.

I agree with the press that this will likely become a good case study for what should "count" under the Volker rule.

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James Hohl or I will provide some numbers or further analysis when we have them.

- apo

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From: Tuorto, Louise
Sent: Tuesday, April 10, 2012 7:38 AM
To: LB Morgan Stanley; LB CITT; Heinsohn, Allison; Crumlish, Fred; Devincenzi, Saray; Decker, Sharon; Kiefer, Joseph; Gouldie, James
Subject: JPMorgan's Iksil May Spur Regulators to Dissect Trading - Bloomberg News - 4/9/12

# JPMorgan's Iksil May Spur Regulators to Dissect **Trading**

Market-moving trades by IPMorgan Chase & Co. (IPM)'s chief investment office probably will force regulators to seek more detail on banks' derivatives positions to help them distinguish risk management from speculation.

Bruno Iksil, a London-based trader in the unit, has built derivatives positions linked to corporate credit that are so big he's moved markets, according to hedge fund managers and dealers. While <u>Joe Evangelist</u>, a bank spokesman, said yesterday that the trades are part of the firm's hedging strategy, four market participants said they resemble proprietary bets, or wagers with the lender's own money.

Executives at New York-based JPMorgan, the biggest U.S. bank with \$2.27 trillion of assets at year-end, have opposed the so-called Volcker rule that seeks to prevent banks with federal backing from making speculative trades. Details on Iksii's positions are too sparse for regulators to determine whether they should be permitted, said Fank Partnoy, a former derivatives trader who's now a law and finance professor at the University of San Diego.

"This could be an almost completely matched, hedged position, or it could be massively risky, and there's just no way to tell without getting more complete disclosure," Partnoy, author of "Infectious Greed: How Deceit and Risk Corrupted the Financial Markets" said in a phone interview. "I'm surprised that regulators don't see this example and cry out for more disclosure and more information about these contracts."

## **Bank Regulators**

Judith Burns, a Securities and Exchange Commission spokeswoman, declined to comment on whether the agency is looking into the trading. Bryan Hubbard, a spokesman with the Office of the Comptroller of the Currency, which regulates banking at JPMorgan, and the Federal Reserve's Barbara Hagenbaugh also declined to comment.

The three regulators are among those working on the final version of the Volcker rule

Regulators are stationed in JPMorgan's offices and are aware of what the bank is doing, said a person familiar with the company's thinking, who asked not to be identified because he wasn't authorized to discuss it.

The results of JPMorgan's chief investment office "are disclosed in our quarterly earnings reports and are fully transparent," Evangelisti said in a phone interview

Harvey Pitt, a former U.S. Securities and Exchange Commission chairman, said yesterday in an interview on Bloomberg Television's "InBusiness With Margaret Brennan" that trading such as Iksil's should raise regulatory concerns because it's influencing market prices.

#### 'Dispel Concerns'

"I'd want to talk with the folks at JPMorgan and understand exactly what took place here," Pitt said. "And then I would try to get a report out to the public as quickly as possible to dispel concerns about things that may not have occurred and to raise issues about things that actually did occur."

<u>Arthur Levitt</u>, another former SEC chairman who is a senior adviser to <u>Goldman Sachs Group Inc. (GS)</u>, said in a radio interview on "Bloomberg Surveillance" that he expects regulators will require more information on banks' derivatives positions.

"And I think that is unfortunate," said Levitt, who also is on the board of Bloomberg LP, the parent of Bloomberg News. "That raises all kinds of competitive issues."

JPMorgan holds a portfolio of investment-grade debt and uses "credit-related instruments" such as derivatives to protect against a decline in the value of the holdings, Evangelisti said.

#### 'Simply a Balancing'

"Our most recent activity noted in the media is simply a balancing of those credit-related investments to reduce the impact of our hedge," he said. "We do this in the ordinary course of our asset- and liability-management activities."

Jack Gutt, a spokesman at the Federal Reserve Bank of New York, declined to comment on whether the New York Fed is examining the trades. Jamie Dimon, JPMorgan's chairman and chief executive officer, is on the New York Fed's board of directors.

"This will be the first test of how aggressively the Fed will enforce the Dodd-Frank Act," which includes the Volcker rule, said <u>Mark Williams</u>, a lecturer at Boston University's School of Management. "From a Fed regulatory standpoint, I see JPMorgan as having some serious explaining to do."

The positions, by the bank's calculations, amount to tens of billions of dollars and were built with the knowledge of lksil's superiors, a person familiar with the firm's view said.

#### **Price Movements**

Iksil may have built a position totaling as much as \$100 billion in contracts in one index, according to the market participants, who said they based their estimates on the trades and price movements they witnessed as well as their understanding of the size and structure of the markets.

Even if regulators are satisfied that Iksil's trades are intended to hedge other risks the bank is taking, regulators should be aware that derivatives often fail as offsets because of differences in the way contracts are written and traded, Partnoy said.

"It's not a pure hedge, it has a speculative element to it, and that's particularly true when the contracts are this big, when you're talking about tens of billions of dollars," said Partnoy, whose new book "Wait: The Art and Science of Delay" is being published in June by PublicAffairs.

"The only perfect hedge is in a Japanese garden," he said.

Louise A. Tuorto Administrative Assistant Morgan Stanley Bank, N.A. 750 7th Avenue, 30th Floor New York, NY 10019

212-762-0710

BANK PROPRIETARY AND/OR TRADE SECRET INFORMATION

From:

Brosnan, Mike

o: <Belshaw, Salty>;<Waterhouse, Scott> ent: 4/30/2012 5:53:14 PM

Subject:

RE; pls read, edit and send back, thx

Will wait on scott – it may be that they hedge their capital (it is fixed) but someone else hedges revs/expenses as they move. But will wait on scott to be sure.

Thx for clarity and patience.

From: Belshaw, Sally
Sent: Monday, April 30, 2012 1:50 PM
To: Waterhouse, Scott; Brosnan, Mike
Subject: RE: pls read, edit and send back. thx

Not sure why the word "earnings" got stuck in below but it doesn't fit. Overall, this is our take. It's like a PSI testimony here.....if you ask the right question enough times, will you get a different answer?

From: Waterhouse, Scott Sent: Monday, April 30, 2012 1:04 PM To: Brosnan, Mike Ct: Belshaw, Sally; Waterhouse, Scott Subject: RE: pls read, edit and send back. thx

Mike - you can call me Marty if you want, but please don't call me late for dinner.

We made a few edits to correct facts.

Bottom line: We believe that A/L/M activities at JPMC make sense. We do have an outstanding MRA and there will always be examination findings as well as ongoing questions but we conclude their day-to-day and strategic activities are appropriate from safety and soundness view, and they are not running afoul of inappropriate "proprietary trading" issues. My conversations with FRB counterparts confirm similar thinking. My short take:

JPMC (and WFC, BAC, and to lesser extent C) have very large investment portfolios that are managed centrally, at JPMC by the Chief Investment Office (CIO) and at others by an ALCO.

JPMC typically runs \$300b - \$400b investment positions and there are a lot of derivatives (interest rate, foreign exchange, and credit) that are overlayed to control exposures to structural interest rate risk, basis risk, earnings foreign currency translation risk, and structural credit risk. Note, the overall risk positions can go up or they can go down, though JPMC specifically has a bias that marginal transactions result in less risk. These activities are normal A/L/M at the big banks, though JPMC's inclusion of some credit risk mitigation from CIO is somewhat different (credit people can also do this in other banks, but skills and activity vary).

The clips referencing the "whale" moving the market are tied to unwinding part of credit positions put on a couple of years ago in different instruments. Where the bank gets a gain there has generally been a loss (American airlines etc.). They are big and can move the market, particularly where markets or specific instrument activity is less liquid to begin with.

1 think there are people out there that have lost money and are grousing at JPMC. I also think some people are using this to spin a story to influence policy work. Time will tell if the gut is right.

BANK PROPRIETARY AND/OR TRADE SECRET INFORMATION

From: Brosnan, Mike Sent: Monday, April 30, 2012 12:25 PM To: Belshaw, Sally; Waterhouse, Scott Subject: pls read, edit and send back. thx

Marty - John Lyons asked that I send you a summary of my thinking (Large Banks) on the a/l/m activity and related angles portrayed in media coverage a couple weeks back.

Bottom line: We believe that A/L/M activities at JPMC make sense. We do have an outstanding MRA and there will always be examination findings as well as ongoing questions but we conclude their day-to-day and strategic activities are appropriate from safety and soundness view, and they are not running afoul of inappropriate "proprietary trading" issues. My conversations with FRB counterparts confirm similar thinking. My short take:

- . JPMC (and WFC, BAC, and to lesser extent C) have very large investment portfolios that are managed centrally by ALCO.
- JPMC typically runs \$300b \$400b investment position and there are a lot of derivatives (interest rate, foreign exchange, and credit) that are overlayed to control exposures to structural interest rate risk, basis risk, foreign currency translation risk and credit risk. Note, the overall risk positions can go up or they can go down, though JPMC specifically has bias that marginal transactions result in less risk. These activities are normal A/L/M at the big banks, though JPMC's control of credit risk from CIO is somewhat different (credit people can also do this in other banks, but skills and activity vary).
- The clips referencing the "whale" moving the market are tied to transactions put on a couple years ago and are now being unwound in different chunks. Where the bank gets a gain there has generally been a loss (American airlines etc.). They are big and can move the market, particularly where markets or specific instrument activity is less liquid to begin with.
- I think there are people out there that have lost money and are grousing at jpmc. I also think some people are using this to spin a story influence policy work. Time will tell if the got is right.

the most recent message from Scott and team at JPMC follows this email. Based on what I learned from the emails as well as phone conversations with Sally and Scott, I have not requested additional follow-up and will leave it to their discretion in circling back to if anything new arises. I also read transcript of 1q12 earnings discussion and saw some discussion but not much in way of controversy (essentially the spin in clips = tempest in teapot)

From: To:

Brosnan, Mike

Sent: Subject:

William> 5/14/2012 8:43:07 PM

RE: updated talking points (onsite team is good with this version - various edits are in)

To be clear, from what you said Corker was right. It is us/me that will now be reserved and leave some room for interpretation etc. later.

From: Hubbard, Bryan
Sent: Monday, May 14, 2012 4:32 PM
To: Brosnan, Mike; Williams, Julie; Walsh, John; Kilber, Kenyon; Moore, Carrie; Rowe, William
Subject: RE: updated talking points (onsite team is good with this version - various edits are in)

Thank you. I think these are very helpful and could help clarify the "absolute" statement by Senator Corker this

I have numerous queries from NYTimes, WSJ, Dow Jones, Financial Times, Christian Science Monitor asking to confirm or clarify this morning's statement. Pending Mr. Curry's approval of these more nuanced statements, I'd like to make calls before folks' deadlines so tomorrow's paper's don't include Senator Corker's absolute statement. It would be very helpful.

Also got a call from Public Radio International stating that Senator Corker told him that the OCC has changed its position from this morning.

Based on all the moving parts and interest, I'd like to provide all these reporters the same information consistent with what was said on the call with Mr. Levin.

One reporter also said that Corker's staff is also saying that The OCC staff do not think these sorts of trades "should" be covered. That is different than whether they would be covered.

A separate question from a Peter Coy, at Bloomberg, is asking the more systemic question of what is the banking system's exposure to trading risk. His deadline is Wednesday.

Please let me know if these are ok for me to speak from.

Bryan Hubbard

bryan.hubbard@occ.treas.gov

(202) 874-5307

<< File: JPMC Talking Points May 14 2012 (4).doc >>

From: Brosnan, Mike

Sent: Monday, May 14, 2012 4:19 PM
To: Williams, Julie; Walsh, John; Kilber, Kenyon; Hubbard, Bryan; Moore, Carrie; Rowe, William Subject: updated talking points (onsite team is good with this version - various edits are in)

BANK PROPRIETARY AND/OR TRADE SECRET INFORMATION

<< File: JPMC Talking Points May 14 2012 (4).doc >>

From: To: Sent: Subject:

Attachments:

Crumish, Fred

<Wong, Elwyn>;<Hohl, James>;<Kirk, Mike>

5/16/2012 3:15:53 PM

FW. here Is redline and new final

Talking Points re \$ 2 B Loss - OCC Role and Responsibilitie SW - final.docx, Talking Points re \$ 2 B Loss - OCC Role and Responsibilitie SW - redline.docx

Please advise me of "fatal flaws" or factual errors immediately.

And of course don't forward...

~ apc

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From: Waterhouse, Scott Sent: Wednesday, May 16, 2012 10:22 AM To: Crumlish, Fred Subject: FW: here is redline and new final

From: Brosnan, Mike Sent: Wednesday, May 16, 2012 10:20 AM To: Williams, Julie C:: Waterhouse, Scott; Belshaw, Sally Subject: here is redline and new final

We are good with the new final. Redline attached to help you see changes.

<<...>>

# JPMC Trading Loss and OCC Role and Responsibilities

In 2007 and 2008, in order to hedge credit risk in its balance sheet as a result of stressed credit conditions in the economy, the bank constructed a macro-hedge against the credit risk of the bank's balance sheet using credit default swaps (CDS). This synthetic credit position was designed to provide income to mitigate credit losses in the loan portfolio that would arise under economic conditions that produced broad credit stress. The strategy was managed to provide around \$1 billion to \$1.5 billion of income in credit stress scenarios to offset potential stress losses of \$5 billion to \$8 billion.

The OCC was aware of this macro hedge. The position was captured in the bank's standard Chief Investment Office (ClO) and market risk reports available to the OCC. Mitigating portfolio credit risk is a <u>positive</u> step for safety and soundness purposes, and thus the OCC's focus on this strategy was to ensure that the bank had effective risk management functions and controls. The OCC did not review each particular transaction that resulted in the synthetic credit position because transactions remained within the parameters of the bank's overall risk management limits and were viewed as working reasonably. OCC examinations focused on the quality of risk management and the quantity of risk. Risk management was viewed as satisfactory, with a proven track record. It operated under value-at-risk (VAR), stress, and other limits as well as various measures depicting sensitivities to other market factors.. OCC examination of the investment portfolio in 2010 did find, however, that the bank needed to more clearly document investment policies, portfolio decisions, and processes to manage investments.

The OCC also has issued MRAs on model governance over a period of several years. The bank revised its model governance policy as a result and updated it again in [late 2011-early 2012.] Corrective action is ongoing.

Sinca its inception, the original hedging strategy generally has worked as anticipated. As the economy declined and credit spreads widened, the bank reported gains on the hedge position that offset credit losses it took in its loan portfolio. (Note that gains and losses on the derivatives positions that constituted the hedge are marked to market.)

As the economy improved, in late 2011 and early 2012 executive management felt that the credit cycle was less risky and made the strategic decision to reduce the high yield debt credit protection position. However, after the American Airlines bankruptcy and with an expected bankruptcy filing by Kodak, the markets for high yield indices were not, according to the bank, liquid enough to use to unwind the existing short credit protection position. Consequently, the bank looked for alternatives to offset the positions via other instruments that were presumed to have offsetting risk characteristics.

The bank developed a risk management strategy that relied heavity on the IG 9 Index. IG9 was viewed as more liquid than the high yield indices, and included five "fallen angels" that allowed the index to be used to partially reduce the bank's protection against stress losses. Thus, the bank began selling IG 9 credit default swaps —going long on IG 9 credit risk (selling CDS) — to neutralize some of its short high yield credit risk position (the original credit default swaps). Essentially the bank was putting on a hedge on a hedge. The resulting combination of the original hedge, end the new position was quite complex.

At roughly the same time as this hedge-on-a hedge was being executed, the bank implemented a new VAR model, which was designed to improve the precision of risk measurement. This model went through multiple levels of review at the bank, including the updated model governance policy required pursuant to OCC MRAs.

In this regard, the OCC does not "approve" in advance all the particular models a bank uses – nor the particular loans, or investments, etc. that it makes. OCC evaluates the bank's risk management policies, processes, procedures, limits, and controls (including quality assurance

processes and audit). And we monitor management systems for exceptions to policies or limits which may then prompt further review or inquiry. We also monitor and follow-up on errors and adverse findings from risk managers and auditors to ensure they are cleared on a timely basis.

OCC examiners look to see where activities or losses have diverged from expectations to a degree indicative of a breach of approved parameters or breakdown of controls. For example, we would look for traders/managers operating outside approved limits, where risk management activities did not identify or escalate such instances, and for models breaking or not going through proper validation, etc. It is possible that losses could be incurred even when all controls function properly, however, because of poor risk estimation or bad business judgment as well as external events that create low probability but higher impact environments that aggravate poor decisions or bad judgment. Risk management seeks to minimize risk but cannot aliminate it, which is why banks have requirements to maintain specific capital, reserves, and liquidity to manage unexpected losses.

Examiners raview management information on a regular basis and have access to additional details and information if warranted. OCC examiners observe risk management practices and assess effectiveness by evaluating whether they provide credible challenge to business people to ensure proper balance between risk and reward. If swarniners do not see that, they seek to have corrective action to the risk management practices at the institution.

The bank in this case made its decision to reduce its exposure from the original 2007 strategy in late 2011/early 2012. This was an unexceptional decision made by bank management; not something that would prompt a special alert to the OCC, or a reaction by the OCC that individual trades needed to be examined.

Notably, however, in the present situation, the risk characteristics of the original macro-hedge and the hedge-on-a-hedge diverged and this introduced additional risks, including basis risk. The basis risk that resulted made the bank's new hedge strategy sensitive to a change in the spread between High Yield CDS and Investment Grade CDS (IG9) known as compression/decompression risk. As recent events have proven, the bank's modal assumptions regarding the expected price behavior between the indexes and the value of the positions were incorrect. The overall impect on the ClOs first quarter 2012 earnings estimate is a \$1 billion swing from a \$200 million gain to May 10's announcement of an \$600 million loss.

We discussed with management expected first quarter 2012 results in the three weeks leading up to the bank's earnings announcement. We met with the CFO on April 12 to go over financial results. At that time, the CFO noted that he expected the Corporate sector, including the CIO, to make approximately \$200MM per quarter for the rest of the year. The bank formally announced earnings on April 13, with no mention of the CIO issue.

The OCC reviews the CIO book on a regular basis. We began to focus on the detaits of this set of transactions and resulting impact on limits in mid-April, following April 9, 2012 reports of the bank's "London Whale" trader who was actually executing the trades to establish to establish the hedge-On-the-hedge. On April 16, OCC and FRB examiners met with Ina Drew (now former CEO of the CIO) and senior members of the CIO and officials of the bank's risk management function to discuss the bank's positions in light of the press reports. Ms. Drew and other bank officials explained at that time the use of CDS to mitigate the bank's credit risk and their rationale for using the IG 9 Index to reduce the bank's high yield credit derivative position. Thus, the bank was selling IG 9 CDS – going long on IG 9 credit risk (selling CDS) to neutralize some of its short high yield credit risk protection (the long CDS) put in place to mitigate the credit risk of its loan portfolio.

On May 4, 2012, we received a call from the CFO and CRO to inform us that the value of the position was deteriorating rapidly. Management informed us that it brought in specialists from the Investment Bank to dissect the position and take over its management. The CFO said the

investigation was ongoing and that they would make a presentation to us on May 9 2012. Additional information on changes to CDS exposures and the synthetic credit portfolio were provided to examiners as a result of this meeting, and we are having ongoing discussions. Additional information on changes to CDS exposures and the synthetic credit portfolio were provided to examiners as a result of this meeting. Also noted were recent changes in the behavior of the IG 9 market.

The bank had to publish its 10Q on May 10. Given that the value had changed so much, management telt that it needed to inform its investors prior to publication, A conference call was quickly arranged for hours on May 10 to highlight the issue and change its corporate sector earnings forecast for the rest of the year.

From: Kamath, Jairam To: <Crumlish, Fred> 5/23/2012 2:42:26 PM FW: Stop Loss Definitions Sent: Subject:

This makes no sense and gives a misleading picture of the 5-day and 10-day stop losses. Perhaps if they had reported cumulative losses in the 5-day and 20-day lines, management would have been apprised of the gravity of the situation much earlier. Incidentally, CIO does not have drawdown limits.

jairam.kamath@occ.treas.gov Tet: 212-899-1386 BB: 202-368-9193 Fax: 301-433-6238

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From: Kamath (Regulator), Jairam X [mailto:jairam.x.kamath@jpmchase.com]
Sent: Wednesday, May 23, 2012 10:27 AM
To: Kamath, Jairam
Subject: FW: Stop Loss Definitions

From: Surtani, Lavine Sent: Wednesday, May 23, 2012 9:48 AM To: Kamath (Regulator), Jairam X Cc: Regulatory Coordinator Subject: RE: Stop Loss Definitions

I went back to Market risk management to ensure they were comfortable with the definition and the way the reports are calculating Stop Loss Thresholds and they agree with the logic which is as follows:

The five day loss advisory is an arithmetic sum of the last 5 1-day <u>utilizations</u>. Any of these underlying <u>utilizations</u> that have caused an <u>excession</u> are NOT_included in the sum for the following reason: including <u>utilizations</u> that caused <u>excessions</u> would result in a double-penalty. A business would break both their 1 day and five day loss advisory. Rather, this type of loss advisory is used to capture small leaks in loss over a larger period of time

The same logic would be implemented for the 20-day.

Also, the other point they emphasized is that while some LOBs continue to show the loss advisories as thresholds, Market Risk Management overall favors the Drawdown measure of P&L performance for limit purposes.

Let me know if you have any further questions.

Lavine Surtani | Corporate Market Risk Reporting | T: 212-270-1369 (midtown); 212-623-6835 (downtown) | M: 917-757-1091 | lavine surtani@ipmchase.com

From: Kamath (Regulator), Jairam X Sent: Thursday, May 17, 2012 9:37 AM

BANK PROPRIETARY AND/OR TRADE SECRET

To: Surtani, Lavine Subject: Stop Loss Definitions

Hi Lavine

I know this should be fairly obvious but we'd like to know how MRM defines 1-day, 5-days, and 20-days stop loss thresholds. From looking at some of the risk reports we are not getting a good sense of how the 5-day and 20-day stop loss numbers are derived.

Thanks,

Jairam

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BANK PROPRIETARY AND/OR TRADE SECRET INFORMATION

Wong, Elwyn <Waterhouse, Scott>;<Crumlish, Fred>;<Swank, Todd>;<Kirk, Mike> <Hohl, James> 5/17/2012 3:42:36 PM History of Trades

From: To: SC: .ent: Subject:

Ok, looks like they gave us all trades as of Month-end Jan, Feb, March

Then 3 snap shots for April,

Then Daily May but only 01,02,03,04

So "netting" Feb vs March vs the 3 snapshots in April would give us info on incremental trades done since the loss really began to snowball.

 $Obviously \ still \ need \ explanations \ on \ the \ right \ hand \ columns \ in \ the \ spread sheet, \ especially \ for \ tranches.$ 

Elwyn

From:

Crumlish, Fred

CC:

-Waterhouse, Scott>
-Waterhouse, Scott>
-Wilhelm, Kurt>;<Belshaw, Sally>;<Atkins, Glem>;<Banks, George>;<Berg, Jaymin>;<Fursa, Thomas>;<HoN, James>;<Kamath, Jairam>;<Kirk, Mike>;<Monroe, Christopher>;<Wong, Emyronase</p>

Sent: Subject: JPM CIO trades-- JPMorgan's Iksil May Spur Regulators to Dissect Trading - Bloomberg News - 4/9/12

CIO is in the news again today (See following). A quick recap of where we are. I have copied Sally and Kurt in anticipation of questions:

As you know we had a call with Chief Investment Officer Ina Drew and others in JPM yesterday, along with the frb. The trades that are getting press coverage now are part of a program to reduce a an existing hedge on credit risk stress losses. Mgmt felt this stress loss hedge became overhedged as credit risk lessened in 2011, and so used the IG9 to adjust it. Unfortunately the IG9 index has also seen reduced trading volume and market participants, so that JPMC's trades probably further decreased liquidity in the index. JPMC's credit stress hedge is again where they want it, and there is no significant further trading planned on this strategy. JPM did say that, if they had to do it all over again, they would have used a different index. My sense is that they misread the liquidity in the market. CIO really doesn't like to draw attention to itself.

We asked the bank for a number of items yesterday that reflect details on the trades and support the stress loss hedge rationale associated with this specific strategy. We expect this sometime today. FYI the stated purpose would be consistent with the CIO's mandate to hedge overall structural balance sheet risk. Most notably this includes interest rate risk in the banking book, the MSR, and FX translation.

Lagree with the press that this will likely become a good case study for what should "count" under the Volker rule.

James Hohl or I will provide some numbers or further analysis when we have them.

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From: Tuorto, Louise
Sent: Tuesday, April 10, 2012 7:38 AM
To: LB Morgan Stanley; LB CITI; Heinsohn, Allison; Crumlish, Fred; Devincenzi, Saray; Decker, Sharon; Kiefer, Joseph;

Gouldie, James
Subject: JPMorgan's Iksil May Spur Regulators to Dissect Trading - Bloomberg News - 4/9/12

# JPMorgan's Iksil May Spur Regulators to Dissect **Trading**

Market-moving trades by <u>JPMorgan Chase & Co. (JPM)</u>'s chief investment office probably will force regulators to seek more detail on banks' derivatives positions to help them distinguish risk management from speculation

Bruno Iksil, a London-based trader in the unit, has built derivatives positions linked to corporate credit that are so big he's moved markets, according to hedge fund managers and dealers. While Joe Evangelisti, a bank spokesman, said

yesterday that the trades are part of the firm's hedging strategy, four market participants said they resemble proprietary bets, or wagers with the lender's own money.

Executives at New York-based JPMorgan, the biggest U.S. bank with \$2.27 trillion of <u>assets</u> at year-end, have opposed the so-called Volcker rule that seeks to prevent banks with federal backing from making speculative trades. Details on Iksil's positions are too sparse for regulators to determine whether they should be permitted, said <u>Frank Partnoy</u>, a former derivatives trader who's now a law and finance professor at the University of <u>San Diego</u>.

"This could be an almost completely matched, hedged position, or it could be massively risky, and there's just no way to tell without getting more complete disclosure," Partnoy, author of "Infectious Greed: How Deceit and Risk Corrupted the Financial Markets" said in a phone interview. "I'm surprised that regulators don't see this example and cry out for more disclosure and more information about these contracts."

## **Bank Regulators**

Judith Burns, a Securities and Exchange Commission spokeswoman, declined to comment on whether the agency is looking into the trading. <u>Bryan Hubbard</u>, a spokesman with the Office of the Comptroller of the Currency, which regulates banking at JPMorgan, and the Federal Reserve's <u>Barbara Hagenbaugh</u> also declined to comment.

The three regulators are among those working on the final version of the Volcker rule,

Regulators are stationed in JPMorgan's offices and are aware of what the bank is doing, said a person familiar with the company's thinking, who asked not to be identified because he wasn't authorized to discuss it.

The results of JPMorgan's chief investment office "are disclosed in our quarterly earnings reports and are fully transparent," Evangelisti said in a phone interview.

<u>Harvey Pitt</u>, a former U.S. Securities and Exchange Commission chairman, said yesterday in an interview on Bloomberg Television's "InBusiness With Margaret Brennan" that trading such as Iksil's should raise regulatory concerns because it's influencing market prices.

### 'Dispel Concerns'

"I'd want to talk with the folks at JPMorgan and understand exactly what took place here," Pitt said. "And then I would try to get a report out to the public as quickly as possible to dispel concerns about things that may not have occurred and to raise issues about things that actually did occur."

Arthur Levitt, another former SEC chairman who is a senior adviser to Goldman Sachs Group Inc. (GS), said in a radio interview on "Bloomberg Surveillance" that he expects regulators will require more information on banks' derivatives positions.

"And I think that is unfortunate," said Levitt, who also is on the board of Bloomberg LP, the parent of Bloomberg News. "That raises all kinds of competitive issues."

JPMorgan holds a portfolio of investment-grade debt and uses "credit-related instruments" such as derivatives to protect against a decline in the value of the holdings, Evangelisti said.

# 'Simply a Balancing'

"Our most recent activity noted in the media is simply a balancing of those credit-related investments to reduce the impact of our hedge," he said. "We do this in the ordinary course of our asset- and liability-management activities."

<u>Jack Gutt</u>, a spokesman at the <u>Federal Reserve</u> Bank of New York, declined to comment on whether the New York Fed is examining the trades. <u>Jamie Dimon</u>, JPMorgan's chairman and chief executive officer, is on the New York Fed's <u>board of directors</u>.

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"This will be the first test of how aggressively the Fed will enforce the Dodd-Frank Act," which includes the Volcker rule, said <u>Mark Williams</u>, a lecturer at Boston University's School of Management. "From a Fed regulatory standpoint, I see JPMorgan as having some serious explaining to do."

The positions, by the bank's calculations, amount to tens of billions of dollars and were built with the knowledge of Iksil's superiors, a person familiar with the firm's view said.

## **Price Movements**

Iksil may have built a position totaling as much as \$100 billion in contracts in one index, according to the market participants, who said they based their estimates on the trades and price movements they witnessed as well as their understanding of the size and structure of the markets.

Even if regulators are satisfied that Iksil's trades are intended to hedge other risks the bank is taking, regulators should be aware that derivatives often fail as offsets because of differences in the way contracts are written and traded, Partnoy said.

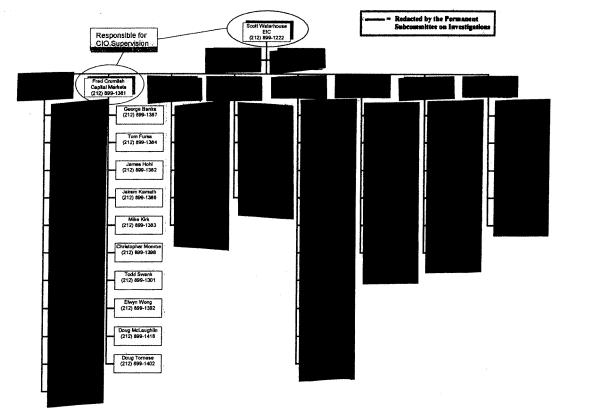
"It's not a pure hedge, it has a speculative element to it, and that's particularly true when the contracts are this big, when you're talking about tens of billions of dollars," said Partnoy, whose new book "Wait: The Art and Science of Delay" is being published in June by Public Affairs.

"The only perfect hedge is in a Japanese garden," he said.

Louise A. Tuorto Administrative Assistant Morgan Stanley Bank, N.A. 750 7th Avenue, 30th Floor New York, NY 10019

212-762-0710 301-433-8910





From: To: CC:

Crumlish, Fred <Kirk Mike>

Sent:

<Hohi, James> 4/11/2012 11:28:18 AM RE: CIO info on elephant trade

Yep. I think we will need to sit with them.

- apc

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From: Kirk, Mike

Sent: Tuesday, April 10, 2012 4:28 PM

To: Crumlish, Fred; Swank, Todd

Cc: Waterhouse, Scott; Banks, George; Berg, Jaymin; Fursa, Thomas; Hohl, James; Kamath, Jairam; Monroe, Christopher; Wong, Bwyn

Subject: RE: CIO info on elephant trade

Fred.

Lagree with your reply to the bank; the attached inarrative reads as something they may post in the 10K (sans the trade level detail). Not very helpful.

What would be helpful would be to see the stress scenarios without these assets, and with these assets so one can understand the impact. I'm assuming they have value in more than one stress scenario as well; so it would be helpful to understand what other utility they provide as well. It would also be helpful if the CIO could provide some indication of a present target level they are trying to achieve, and hence the change of activity that resulted in the same (in other words results prior to and after recent trades).

I would think they should be able to pull the stress test results off the shelf for the time period prior to increasing hedge, then provide the results at the time the trades were made to reduce, and now current levels showing where they are now relative to their target. Just a thought.

Regards, Mike

From: Crumlish, Fred

From: Crumish, red Sent: Tuesday, April 10, 2012 4:13 PM To: Swank, Todd; Kirk, Mike Cc: Waterhouse, Scott; Banks, George; Berg, Jaymin; Fursa, Thomas; Hohl, James; Kamath, Jairam; Kirk, Mike; Monroe, Christopher; Wong, Elwyn Subject: CIO info on elephant trade

James (and Mike) – Attached is a message from Joe S recapping the trades and including a brief narrative. In my response on JPM email, I said that we would get back w/ questions. I also said it would be useful if they provided analytics or a summary that recapped the hedge strategy, such as the expected impact of the hedge on the projected stress loss identified. I had asked for this on the call as well. Hopefully we will see something

Just getting a list of trades doesn't do much "prop trading" wise....

In any event let me know what you think.

- apc

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From: To: Sent:

Hohl, James <Berg, Jaymin> 1/24/2012 6:11:18 PM RE: CIO meeting

Subject:

I don't know who John Wilmot's secretary is, so I've e-mailed him, Dave Alexander, and Phil Lewis together. My Outlook calendar should be available to look at. Monday and Wednesday afternoons look good, Tuesday morning, and pretty much any time Thursday except noon. Thanks, James

p.s. Was the December Treasury EMR available?

From: Berg, Jaymin Sent: Tuesday, January 24, 2012 1.8 PM To: Hohl, James Subject: CIO meeting

Fred wants me to setup this quarters CIO meeting. He said that you'd still be in charge of IRR portion and I'll be responsible for ongoing supervision of investments. What days are you free next week for a meeting? Also, who do you typically email to setup the meeting with CIO?

From: Moore, Carrie 'Michael_Bright@corker.senate.gov' 5/12/2012 7:49:28 PM Subject: Re: JPM You'll definitely beat me in... But I should know more later today or tomorrow on times that will work for Mike. Likely 9 or From: Bright, Michael (Corker) [mailto:Michael_Bright@corker.senate.gov]
Sent: Saturday, May 12, 2012 02:34 PM
To: Moore, Carie
Subject: Re: JPM Sure, let's talk Mon. I will be in very early. About 6 or 6:30 From: Moore, Carrie [mailto:Carrie Moore@occ.treas.gov] Sent: Saturday, May 12, 2012 01:57 PM To: Bright, Michael (Corker) Subject: Re: JPM Michael, am trying to set up a 30 min or so call with you and Mike Brosnan on Mon. His schedule is tight, so hoping you have some flexibility on your end. I might not know the time until early Mon - when are you in the office? From: Bright, Michael (Corker) [mailto:Michael_Bright@corker.senate.gov]
Sent: Saturday, May 12, 2012 12:54 PM
To: Moore, Carrie
Subject: Re: JPM Thank you! (Will get back to backyard grilling now.) From: Moore, Carrie [mailto:Carrie.Moore@occ.treas.gov]
Sent: Saturday, May 12, 2012 12:45 PM
To: Bright, Michael (Corker) Hi Michael, That's accurate. These trades would have been allowed even if the Volcker rule was in place. Hope you're not working too hard today! From: Bright, Michael (Corker) [mailto:Michael_Bright@corker.senate.gov]
Sent: Saturday, May 12, 2012 12:43 PM
To: Moore, Carrie
Subject: Re: JPM Carrie, sorry to bother you on a Saturday. But quick question. The committee staff seemed to think that the OCC's view was that the JMP trades would have been permissible under Volcker. Is that an accurate statement?

From: Moore, Carrie [mailto:Carrie.Moore@occ.treas.gov]
Sent: Friday, May 11, 2012 06:46 PM
To: Bright, Michael (Corker)

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Thanks, Michael

Subject: Re: JPM

Yes, all out of the bank. Will set up something for Mon!

From: Bright, Michael (Corker) [mailto:Michael_Bright@corker.senate.gov]
Sent: Friday, May 11, 2012 06:16 PM
To: Moore, Carrie
Subject: RE: JPM

Yes please. Would love to talk on Mon. These trades were done out of the bank N.A., correct?

From: Moore, Carrie [mailto:Carrie.Moore@occ.treas.gov]
Sent: Friday, May 11, 2012 5:43 PM
To: Bright, Michael (Corker)
Subject: RE: JPM

Yes, as I understand it, this is a hedge trade gone wrong issue, which will result in a hit on earnings. And I have folks that can give you all the details, should you need it. Just let me know. Thanks, Carrie

From: Bright, Michael (Corker) [mailto:Michael Bright@corker.senate.gov]
Sent: Friday, May 11, 2012 4:24 PM
To: Moore, Carrie
Subject: JPM

Hey Carrie. I'm sure this is probably your 500th request today...but s this just a hedge trade that was exceptionally poorly executed? CDX basis mistake, of some sort?

Any insight you could provide would be helpful. As I'm sure you can appreciate, my boss is asking lots of questions.

Thanks, Michael

From: To: Sent:

Berg, Jaymin <Crumlish, Fred> 4/5/2012 6:28:59 PM RE: reports list

Subject:

Fyi – the unknowns are due to listserve recipients so I'm not sure who gets it. Also, Doug is listed as a recipient for some emails but I don't think his JPM account works.

Report Frequency Other OCC Recipients
Firm Stress Results Weekly Unknown
1B Risk IB VaR and Limits Update Daily Unknown Firmwide Risk Daily Market Risk Limits and VaR Reports Daily Fred Crumlish Christopher Monroe Daily Revenue Report Daily Unknown MaRRS Stress Reports Weekly Unknown

Firmwide Risk Daily Limits Excession Summary Daily None Level 1 IB EMR Monthly None

Level 2 IB EMR Monthly None Equity Risk Stripe Daily Elwyn Wong Tom Fursa
Global ABS Conduit Monthly Report Monthly Tom Fursa Doug Tornese Jupiter, Falcon, & Chariot Regulator Reports Monthly Brad Sry Doug Tornese Secondary Marketing Daily Risk Exposure Reports Monthly None

CIO AFS Securities List Quarterly James Hohl
CIO Info in Treasury Weekly Appendix Weekly None CC Securitization Monthly Review Package Monthly Doug Tornese

From: Crumlish, Fred Sent: Thursday, April 05, 2012 2:03 PM To: Berg, Jaymin Subject: RE: reports list

Do you know who is cc'd beside you on each of these?

- apc

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From: Berg, Jaymin Sent: Thursday, April 05, 2012 2:02 PM To: Crumlish, Fred Subject: reports list

Here's the reports I receive:

Report Firm Stress Results IB Risk IB VaR and Limits Update

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Firmwide Risk Daily Market Risk Limits and VaR Reports Daily Revenue Report MaRRS Stress Reports Firmwide Risk Daily Limits Excession Summary Level 1 IB EMR Level 2 IB EMR Equity Risk Stripe Global ABS Conduit Monthly Report Jupiter, Falcon, & Chariot Regulator Reports Secondary Marketing Daily Risk Exposure Reports CIO AFS Securities List CIO Info in Treasury Weekly Appendix CC Securitization Monthly Review Package

From:

Waterhouse, Scott Brosnan, Mike 5/17/2012 5:12:50 PM

Sent:

RE: Your request of last night, re OCC response on clo

Perhaps right after the 2-3 CIO update. Looks like you are free. Shall I call you when I get back to the office?

From: Brosnan, Mike

Sent: Thursday, May 17, 2012 12:06 PM To: Waterhouse, Scott

Subject: RE: Your request of last night, re OCC response on cio

Ok. I sent on to Julie. Will call you later today (not sure on specifics, but we know things will pop up). Is there a time you want me to call before (leaving 30 minutes for us to talk etc.)?

From: Waterhouse, Scott Sent: Thursday, May 17, 2012 10:27 AM To: Brosnan, Mike

Subject: FW: Your request of last night, re OCC response on cio

Mike - here is Fred's chronology. This is response to Julies question.

From: Crumlish Fred

Sent: Thursday, May 17, 2012 9:50 AM To: Waterhouse, Scott

Subject: Your request of last night, re OCC response on do

This is in response to your email asking about OCC supervision between April 16 and May 4. This and the following message recaps of our recent CIO responses

In terms of standard MIS, we receive two emails every day that are relevant to this issue. They contain risk information for the company overall:

Firmwide Daily Risk Limits Excessions Firmwide Daily Market Risk Limits and VaR reports.

Each email contains a short summary and an attachment for the LOBs. All examiners have access to this email and based on their review we decide what follow up is needed, and we also use this to assess trends, etc.

With respect to the synthetic credit book and the CIO, the daily MTM firnt blew out on 4/10 and then snapped back. We had contacted the bank on April 9 because the press reporting and market comments weren't consistent with what we fett to be the case and began requesting information. After some back and forth we set up a meeting with seniors. I also added an examiner with direct trading experience to help us assess what was going on and help evaluate management's responses. This meeting included Ina Drew, John Hogan, and others, and is summarized in my 4/17 email. In addition to describing the current assessment, Ina Drew indicated that they had begun looking into what happened, as they were concerned that this had become public, and would keep us informed. At the time this wasn't responded as a problem with the position or management of the book. John Hogan also indicated that the limit processes presented as a problem with the position or management of the book. John Hogan also indicated that the limit process had "worked" to the extent that it had initiated the conversation resulting in additional work being done on the book. We told the bank to keep us informed and we would like to see the results. Based on this meeting, we were led to expect some volatility based on what we were told. The bank didn't provide an incremental update on their work as we

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As you know, we also discussed moving up the review of our CIO MRA to June (post SNC) to encompass this issue and had an exam planned for the UK and US activities in October.

- apc

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From: Hohl, James Sent: Thursday, May 17, 2012 7:49 AM To: Crumlish, Fred Subject: Re: Scott's e-mail of 6.33 p.m. last night

The initial concerns based upon the press reports were about JPMC trading affecting market prices for CDSs. Our focus was on sizing the positions and assessing whether JPMC's volume impacted the CDS market. We went back and forth with the bankers several times, just trying to get clear position information. We continued receiving and monitoring the daily VaR reports, but there was no additional daily reporting. There was no discussion of P&L effects before Doug Braunstein's call on May 4th.

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### Before 0416 call with ina

< Message: Background and Supporting Data for CIO Discussion of April 9, 2012 >> << Message: RE: Background and Supporting Data for CIO Discussion of April 9, 2012 >><</p>

## 0416 call presentation

<< Message: FW: materials for Fed/OCC/FDIC call at noon today >>

Post 0416 information << Message: CIO Synthetic Credit follow-up >> << Message: CIO information for Wednesday >> << Message: RE: CIO Synthetic Position >>

From: To: CC:

Kirk, Mike Crumlish, Fred; Hohl, James Waterhouse, Scott 5/9/2012 4:31:18 PM

Sent: Subject:

RE: today's meeting

OK...is James doing first cut as he did last time.

I understood Doug's point on concentration reserves, but note that there weren't any real incentives for traders to find the "simple' solution as we discussed in our meeting.

Problem will always be that limit structures didn't anticipate a certain type of positions, especially in an environment where limits are created once there are significant exposures (often JPM does not institute limits until positions become material... at which point it may be too late).

I see this, as I called it this AM in our internal meeting.... A group of traders who were unwilling to swallow the costs of 

Just a follow up thought:

Unlike PIMCO and other real money manager that have investors that can and may withdraw at any time (instilling a form of discipline of how much of anything to hold relative to liquidation expectations), the bank is not exposed to exogenous demands for capital short of a rapid reduction of deposits. Therefore, I think we should be thinking of some form of liquidity discipline for the ClO function that could be put in place to help cornect reoccurrence.

From: Crumlish, Fred Sent: Wednesday, May 09, 2012 12:20 PM To: Kirk, Mike; Hohl, James C:: Waterhouse, Scott Subject: today's meeting

Hi Mike - I mentioned to James on the way back that when we put the notes together for the meeting, we need a couple of short bullets up front followed by the detail. We need to convey that the bank called us because on further analysis the position proved more problematic.

We will schedule an update in a week

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From:

Waterhouse, Scott

<Belshaw, Sally>;<Brosnan, Mike> <Crumlish, Fred> 5/10/2012 6:11:09 PM

To: CC:

Sent: Subject:

FW: Braunstein / Cutier call on CIO

Sally & Mike – we had a call from Braunstein this afternoon to update us on ongoing events in the CIO. Crumlish provides comments below. I've also pasted in additional notes from our Wednesday meeting on the subject.

Bottom line: the bank's efforts to risk manage its synthetic credit position in the first quarter have not been effective. The current position is more risky and less economic than originally thought

Due to issues described below, the bank will report a higher VAR number, more RWA, and lower Basel III capital ratio (8.4% to 8.2%) than originally reported on the earnings call. The 10Q will be published tonight.

The bank will also revise its forward looking outlook for corporate sector earnings, moving it from a positive \$200MM this quarter to a negative \$800MM.

The bank "may" have an analyst call this afternoon at 5:00 to explain.

Details follow:

From: Crumlish, Fred Sent: Thursday, May 10, 2012 1:45 PM To: Waterhouse, Scott Subject: Braunstein / Cutler call on CIO Importance: High

Doug Braunstein and Steve Cutter called to provide an update on the CIO synthetic credit position and related disclosures. Key points:

- As a result of work done over the past 24-36 hours, JPM became concerned about the quality of the VAR calculations. The bank had implemented a new VAR calculator at the beginning of this year. JPM decided to revert to the VaR model used during 2011. This will cause CIO reported average VaR to go up from 70MM to 130MM and the max from 120MM to 180MM. The change also adds 35B to Basel III RWA and reduces the Basel III ratio from 8.4 to 8.2%
- These numbers are different than those originally reported in the 8Q after the earnings announcement/analyst call. Since the official 10Q has not been filed, management will highlight the differences in the VAR, RWA and B-III numbers.
- JPM plans an analyst call today at 5PM. Two messages will be delivered:
  - o The company has determined that it has a position that is riskier, more volatile, and less economic than they thought it had been. Therefore the bank will change its forward-looking guidance for corporate P&L from a \$200MM profit to an \$800MM loss. (They may allude possible offsets from sales in AFS securities). (Estimated total firm-wide P&L will reduce from approximately \$5.4 billion to \$5 billion for the second quarter.)
  - o The company is going back to its historical VaR model, so the filing will show adjusted VaR and capital

Directors have been informed. A regularly scheduled board meeting is set for today for the directors to approve the 10Q.

#### Further notes:

This call followed our meeting of yesterday (notes below) where the bank went over the initial results of their review of CIO, and there conclusion that the synthetic credit portfolio has become far riskier than expected. Over the past 24 hours, company has been validating data. The initial work on the VaR model indicated that although it had been validated by the model risk group, it was not implemented with consistent data. Therefore, company is reverting to the model that had been in place during 2011. (JPM was reticent on the specifics of the implementation issues as this is still work in progress and all issues may not be fully know, however, they were sufficiently concerned to pull the model and there may have been some "data smoothing" involved.)

### Notes from 5-9-12 meeting:

The synthetic credit portfolio held by CIO has \$1.9B MTM losses in 2Q2012 to date (to somewhat offset this in 2Q2012 net income, the CIO has taken nearly \$1B of securities gains from the AFS portfolio). The notional position of the synthetic credit portfolio grew significantly during 1Q2012 in a what has been a failed attempt to reduce a credit hedge by repositioning the portfolio (described in my email of April 17). The net result is a large complex position that hasn't performed as modeled, with unexpected correlations and increased volatility, that will take time to run down. The nature of the synthetic credit portfolio also caused Basel III risk-weighted asset to grow about \$30B in 1Q and another \$20B in 2Q so far.

As previously reported, JPMC managers wanted to reduce the HY short risk position they had, but market liquidity and perceptions (due to AMR and Kodak BK's plus LTRO) were such that the HY indices weren't economical to use to reduce the risk position. So traders modeled other indices based upon historical correlations and determined the best course of action was to sell IG indices. Ina Drew noted that the old HY synthetic hedge moved in line with the AFS portfolio prior to these changes being made. John Hogan noted that the firm had underestimated the risks and that they would exit the strategy and not reenter it.

The driving issue, according to Doug Braunstein, became the size of the position. Because of the size, any dislocation is magnified, and the ability to exit is hampered.

The CIO global credit 10% credit spread widening (CSW) limit was breached on March 22, 2012. At that time CIO Ina Drew suspended active trading in the instruments and began looking more closely at the drivers of the ongoing limit exception. Further increases to the risk position, as seen in the reports, were not from new trades, but rather from the convexity of the positions, many of which behave like near or at the money options. Further widening of spreads will exaggerate this problem; conversely, spread narrowing will assist in de-risking. At first it was thought that the excess was due to market dislocations that would mean revert, however, after further analysis by the last week of April it became apparent to JPM management that there were fundamental problems with the optibility.

At this time, Risk Management has control of the synthetic credit portfolio, which will be wound down. While the portfolio does have symmetrical risks, JPMC managers are actively reducing the exposure instead of sitting on it to see if the market will turn around. The de-risking glide path entaits three prongs. First, the de-risking of delta (10% CSW). Second, deciding what to do with shorts expiring in December. Third, more long dated issues related to illiquid risks that they can't do much about. There may be more liquidity reserves taken as a result. Ashley Bacon is leading the efforts to actively reduce the 10% CSW exposure by July 4th. Currently, managers are meeting twice daily seven days a week to update and control this process. Ultimate resolution of the portfolio will take a long time, and there is a possibility of losses in billions.

Risk management is measuring six risk categories for the synthetic portfolio and is stressing each of them. There is a risk that the portfolio could lose \$2B from here, but these numbers are evolving as risk management better understands the position and as risks are unwound. OCC and FRB will be updated on exposure and actions

The review of the situation is ongoing. To date, identified issues include the following. There was poor construction and execution of the hedge reduction strategy, which added to the complexity and size of the position. There was over reliance on historical market relationships, which resulted in excessive price movements when implied correlations increased. There was miscalculation of market and valuation dynamics. There were insufficiently granular limits for the synthetic credit book, particularly a lack of notional limits, it took too long to fully understand the portfolio risks and

escalate problems. Finally, the current market environment for these instruments has magnified mistakes.

In addition to Risk Management's active efforts to reduce the portfolio's risk positions and ultimately wind it down as previously described, JPMC has begun taking actions to prevent a similar situation. More granular limits have been put into place. The valuation, control, compliance, and reporting framework are being reviewed and are been tightened. An internal audit to assess risk management processes and financial reporting for CIO mark-to-market books is underway.

JPMC attendees
Chief Financial Officer Doug Braunstein
General Coursel Stephen Cutler
Chief Investment Officer Ina Drew
Chief Risk Officer John Hogan
EVP Corporate & Regulatory Affairs Barry Zubrow (telephone)

OCC attendees Scott Waterhouse, Fred Crumlish, James Hohl, Mike Kirk (telephone)

Fed attendees

- DD

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From: To: Sent:

Curry, Thomas <Kilber, Kenyon> 5/11/2012 3:12:24 PM FW: J.P.Morgan Chase

Subject:

FYI.♦ Old school supervision? Tom

From: Brosnan, Mike Sent: Friday, May 11, 2012 10:20 AM To: Curry, Thomas; Williams, Julie Subject: Re: J.P.Morgan Chase

Yes

At end of day they are good at financial risk mngt. But they are human and will make mistakes (big loan losses, trading losses, litigation etc). But on grand scheme they are good. This will humble them - a healthy and good thing

From: Curry, Thomas Sent: Friday, May 11, 2012 10:12 AM To: Brosnan, Mike; Williams, Julie Subject: RE: J.P.Morgan Chase

Mike, Thanks, Isn⊚t it a little more than embarrassment issue? While it may not be material, it does implicate their risk management abilities doesnot it?

From: Brosnan, Mike Sent: Friday, May 11, 2012 10:00 AM To: Curry, Thomas; Williams, Julie Subject: FW: J.P.Morgan Chase

Fyi & international colleagues will be asking and here s what I sent to bafin.

From: Brosnan, Mike
Sent: Friday, May 11, 2012 9:58 AM
To: 'Daniel.Mestek@bafin.de'
Cs: Ludger.Hanenberg@bafin.de; Peter.Kruschel@bafin.de; 'Sarah.Dahlgren@ny.frb.org'; <u>Tim.P.Clark@frb.goy</u>
Subject: FW: J.P.Morgan Chase

At this point there is a lot of public information as bank issued 10-q filing and had call with analysts last night.

The transactions in question were part of their asset-liability management process (alco) which jpmc refers to as the chief investment office (cio). Here are my take-aways

- Back in 2007-08 they put on a short credit risk position to protect against a declining economy. This was a
- macro hedge.

  Over the past few years this hedge worked as the economy declined, credit spreads widened (causing gains on the hedge) but these gains were of course offset as they took credit losses (for example Kodak, American

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- airlines etc.). note, the derivatives positions are mtm while the loan portfolio is primarily cost accounting. This presents complexities for analysts etc.

  After evaluating macro environment in 4q11, actions were taken in early 2012 to reduce the short position --
- by entering long position in other credit risk indices.
  The new transactions had different betas and basis risk.
- As recent marks show the bank mis-estimated the basis risk (while their short position did gain with recent upward shift in credit spreads, the long position had losses beyond original estimates).
- the overall impact of recent marks on 1q12 p/l resulted in a change from cio s previous estimate of a \$200mm gain to last night s announcement of a \$800mm loss (\$1b swing). The micro positions in question are now in control of risk management.

The overall result will be a reduction in 2q12 earnings, and I think the bank has informed market there is a good chance the adjustments underway could result in some earnings impact for one or two future quarters as well. Also, they changed risk models which will result in higher rwa and this will cause tier one common ratio to drop from 8.4 to 8.2. obviously there isn∲t a safety issue with these numbers, but there is an embarrassment issue for bank leadership which has overtly expressed pride in their ability to measure and control risk.

From: Daniel.Mestek@bafin.de [mailto;Daniel.Mestek@bafin.de] Sent: Friday, May 11, 2012 8:39 AM To: Brosnan, Miks; <u>Tim.P.Clark@fb.gov</u> Cc: <u>Ludger.Hanenberg@bafin.de</u>; <u>Peter.Kruschel@bafin.de</u> Subject: 1.P.Morgan Chase

### Dear colleagues

As you may know, BaFin is in charge of supervising J.P.Morgan AG, an indirect subsidiary of J.P.Morgan Chase & Co, New York. Furthermore, J.P.Morgan Chase S Frankfurt branch is under our supervision.

Regarding the latest news on major losses of J.P.Morgan s US business, we would be grateful if we could get insight into both the background of the transaction(s) leading to the reported losses as well as any supervisory action (to be) undertaken by you.

Therefore, it would be greatly appreciated if you could as soon as possible either provide us with respective information in written form or, as an alternative, if we could set up a telephone conference.

### Yours sincerely

Daniel Mestek, LL.M. Bundesanstalt for finanzdienstleistungsaufsicht Referat BA 16: Aufsicht Ober auslondische Banken aus Amerika, Schweiz, Asien (ohne arabische Staaten), Federal Financial Supervisory Authority
Section BA 16: Supervision of foreign banks from the USA, Switzerland, Asia (excluding the Arab states) and Australia Graurheindorfer Str. 108 53117 Bonn Fon: +49(0)228 4108-3787 Fax: +49(0)228 4108-63787

e-mail: daniel.mestek@bafin.de

### Chief Investment Office

### Financial Summary

	January Actuals
MTM	113
NII	63
Security Gains (Losses)	18
Other Revenue	(36)
Total CIO Revenues	158
Total CIO Expenses (Ex IC, Ex FX)	15
Overhead Ratio	9.74%
FX Hedging Reduction to Expense Benefit/(Loss)	(6)
MSR	(10)
COLVBOLI	16

January MTM P&L gain of \$113mm primarily driven by:

- MTM gains on Agency Preferred, Credit CLOs and Fixed Income positions

January Other Revenue of \$(36)mm primarily due to:

 (\$39)mm oost to market adjustment on AM whole loans, offset in AM

### Total Return Summary

130
15
7
109
111%
62
471
1,156

January:

TAR Returns of \$155mm due to:
Credit
Continuation of the raily in ABS markets across all esset classes. Tighter spreads on CLOs have benefited the position
Europe:
Positioned to capture short and European interest rate market sell-off and crive fattening due to stronger contamic data and reduced risk in peripheral Europe markets

Asis:
Directly YA gains in KRW and increased deposit rates in belances in the PBOC

North America: Primarily driven by credit and muni spreads tightening

Loss of (\$10)mm due to convexity offset by duration.

## **Chief Investment Office Financial Supplement**

	Quarter 1 2011 Forecast	Quarter 4 2010 Actuals	Quarter 3 2010 Actuals	Quarter 2 2010 Actuals	Quarter 1 2010 Actuals	
Revenue			***************************************			
Total MTM	134	192	236	(207)	329	
Security G/(L)	75	1,207	100	957	688	
Total Other Revenue*	(48)	(133)	(113)	(58)	(43)	
Hon Interest Revenue	181	1,286	222	691	985	
Total NII	842	278	742	1,142	1,465	
Total Net Revenue	603	1,545	964	1,834	2,449	
Expenses						
Compensation Expense (ex IC)	26	20	(11)	53	18	
Noncompensation Expense		28	25	23	26	
Total Non Interest Expense (ex iC ex FX)	56	49	14	76	43	
Overhead Ratio ex IC	8.95%	3,08%	1.46%	4.12%	1.77%	
COLVBOLI	40	25	65	103	68	
MSR	113	(109)	57	120	96	
MTM Revenue by Region NA MTM	35	27	26	5	27	
Europe	39	13	12	11	35	
Asia	23	33	76	(10)	30	
Global Credit Core	3	81	(12)	(19)	120	
Global Credit investments	20	26	61	52	73	
Globel Management	38	(1)	2	(0)	1	
TAA MIM	157	178	165	49	286	
Accounting Related Adjustments:						
(-) MTM NIVEXP	(38)	(54)	(52)	(70)	(89)	
MTM ex. MTM NEVExp	119	125	113	(21)	198	
FX Hedging MTM	•	(1)	29	(34)	42	
Agency Preferred		10	5	(49)	14	
	19	9	116	(104)	102	
Bank Preferred						
Bank Preferred EMEA CDS Hedges	(5)	63	(20)	26		
Bank Preferred		63 (16)	(20) 2 (9)	26 (25)	(2) (25)	

## **CIO Financial Income - January Actuals**

	Actuals January
MIT	
NA .	1
International DNO	70
Cash Capital Adj	(17
Global Management	
Initiativee Total TAA NII	55
Total SAA NII	13
FX Hedging NII - Capital	12
FX Hedging Nii - Rev/Exp	2
Total FX Hedging NII	13
235 M	151
<u>MTM</u>	
TAA - Realized	80
( - ) MTM NI/Exp - Reslized TAA - Remaining	(22
TAA MTM	56
SAA MTM	49
FX Hedging MTM	ε
provincial to	Ma
Other Revenue	
Intercompany Brokerage Fees	(0
Cost to Market Adjustment DRD Tax Gross-Up	(36
FX Hedging Other	3
Other	(1
(Ask toxish)	1,5
FX Hedging Reduction to Expense	(6
FASB Inaffectiveness Securities Gains/(Losses)	(18 18
regi and and	9.5
COLI/BOLI	16
MSR	(10
Has Chrapat we sin	1.5

### Corporate Recovery Portfolio Financial Supplement

\$ in millions							
	Quarter 1 2011 Forecast	Quarter 4 2010 Actuals	Quarter 3 2010 Actuals	Quarter 2 2010 Actuals	Quarter 1 2010 Actuals		
Sevenue Total NTM Security Of(L) Total Other Revenue Non Interest Revenue Total NII Total Vist Revenue	24 24	30 16 (3) 42 25 67	93 (0) (6) 87 32 119	49 34 (1) 82 37 118	28 (89) (11) (63) 40 (23)		
MTM Revenue by Portfolio ARS IS Recovery Portfolio VetMu VetMus TX Yotal MTM		8 21 30	35 57 93	1 36 12	(C) 10 18	(8) (21) (30)	0 (10) (18)

## **CRP Financial Income - January Actuals**

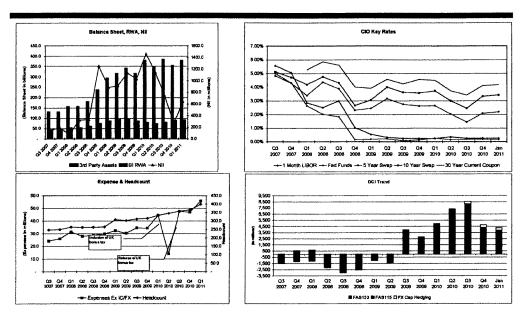
	Actuals
	January
NII	
ĀRS	
IB Recovery Portfolio	i
WaMu	
Total CRP NII	
MTM	
ARS	
IB Recovery Portfolio	
WaMu	12
Total CREMITM	2
Other Revenues	
Securities Gains/(Losses)	(
Other Revenue	(1
Impairment	
Total CRR Other Revenues.	100
	COMMISSION CONTRACTOR CONTRACTOR AND CONTRACTOR CONTRAC
Hotel CRP Revenues	31

Actuals	January 6.0 [1]	E 4.0	E 90	4.0	1.0	0.1	7.5	0.1 0.0 2.8 3.0	0.8	0.5	0.0 2.6 5.0 6.0 6.0	2.8	7.	0.5	0.4		8.4	95	5 <b>5</b>	80		to February.		ry plan was \$872k.
	Controllable Expenses say and Bowdh	Pick and Ookide Survices	Tech and CommitMetel Date, Voce. R9)	Travel and Enlarkahmen	Employee Ratebad Expenses	Total Other	Total Controllable Expenses	Non Controllable Expenses  The first of the	Occupancy	Days ad education of the eds	Owner beardon Restry Affricant Tra UK Bestry Affricant Bransvia Redny VAT (Connect Bransvia	Alsostion.	Total Nen Cartrolable Expenses	Special investment Group (includes PE)	National Per-	CO. Facilities	8AA Esperaes TAA Esperaes	Eurologia: Eurologe Headooni	Contrador Needommi City, ex., heasang Support	Employee Heldraum Controllor Needoum	Triany august Total Headwar	MOMB. (1) UNION TO DO C. parouf in January planning at Arms has been defined to February. (2) White on the Common and An Year has been defined to be a fine than a few.	(1) Purchased expenses are expenses are 6-free point (1) Purchased between the 6-free point (1)	

CIO Expense Analysis- Summary

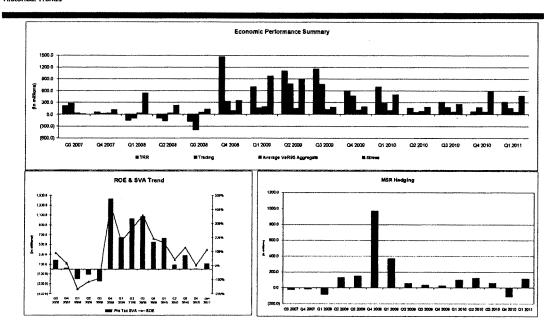
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### **Historical Trends**



OCC-SPI-00000257

### Historical Trends



9

## CIO Balance Sheet - Regional View as of January 31st, 2011

= Redacted by the Permanent Subcommittee on Investigations

	D	iscretionary				
•	North America	Europe	Asia	8AA	CRP	Total
Trading Account Securities	3.1	17,9	3!2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		38.9
Fed Funds Sold/Resales	•	1.4	1.4	•		
Investment Securities	0,0	22.7	11.7			298.2
Interbank Placings	-		4.9	•		4.9
Cash & Due from Banks	0.6	The parties of	0.1	Ja34		.0.6
Whole Loans Mortgages	0.0	(0.0)	0.0			
Other Assets	2012	0.2	Officer	ier Miles in war.		146
Total 3rd Party Assets	4.7	42.2	21.4			254.2

(in \$ Biffions)		Discretionary				
	North America	Europe	Asia	SAA	CRP	Total
Trading Account Security (1974)	-0/64	**************************************	TO A STATE OF THE PARTY OF THE	Service Control	*\ <u>\</u>	27,1
ed Funds Sold/Resales		•	•		*	
nvestment Beourities 💆 🧦	0.5	6.5	<b>23</b>	<b>的</b>		51.7
nterbank Placings			3.0		* *	3.0
esh & Due from Banks	Aller .	12			5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Whole Loans Mortgages					-	2.6
Other Assets	0.3	014	.0.271		at the street of	1418
Total	1.4	17.9	7.0			86.2

12-Jan	10-12m 11-12m 12-13m	6-Jan 9-Jan 10-Jan 11-Jan 12-Jan	S.

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-5,824,024	-14,937,654	18,663,381	-5,349,602	1,609,067	3,537,880	12,790,179	5,320,915	11,899,066	-2,476,245	200,677	-3,633,327	-749,985	.13,773,934	4,114,971

2136

*	Y.M.Y.	6·Mar	7.M.W.	6-Mar	9-Mar	12-Mar	13-Mar	14-Mar	15-ther	16-Mar	19-Mar	70-Mar	21-Mar	22-Mar
878,902	1,171,999	3,161,395	1,264,716	1,154,204	4,565,697	838,405	-55,325	-3,654,638	-730,181	-3,864,759	3,368,891	-43,553,294	701,825	1,786,282

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27-Mar 28-h	28-Mar 29-Mar	30-1427	Hart 19	2-Apr	3-4pr	4-Apr	5-Apr	10-Apr	13-Apr	12-Apr	13-Apr
		÷	-718,672,193	11,615,112	-10,407,844	11,100,155	-9,517,665	-415,342,049	-6,301,198	4,809,755	-50,529,714

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37,415,502	9,948,665	-28,338,553	29,239,630	32,236,022	-161,148,D61	-61,602,918	-187,629,766	162,235,238	15,364,325	222,070,242	.794,944	-52,404,248	91,590,554

.

-	-	A STATE	A MA	TO MAKE	11-May	14-May	15 May	C Total	TO ZELIZ TONE
103,250,854	-58,065,892	195,248,051	108,126,095	36,461,805	-570,159,849	-227,592,775	-119,236,467	1,976,027,784	1,000 APR 257

BANK PROPRETARY AND/OR TRADE SECRET INFORMATION

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### 2011 CA QUARTERLY SUMMARY Global Chief Investment Office 4th Quarter CA summary

		TITI QUUITO		
LEVEL 1	Chief Investment Office	AMT	Hatzopoulos, Alexander X	
LEVEL 2	cio	AMT DIRECT	McManus, William K	
QUARTER	4	STATUS	Approved	

## SUMMARY OF ACTIVITIES STAKEHOLDER MEETINGS

Meetings are held with Internal Audit on a regular basis with Key stakeholders within CIO globally including Senior Management BCC's wi Ina Drew), Operations (Phil Lewis, Alison Giovannetti and Dave Alexander), Market Risk (Peter Weiland), and Technolog Joe Coleman).

### North America

CIO continues to manage the investment portfolio in line with interest rate risk sensitivities transfer priced by Treasury and market

The firm's duration of equity is (5.4) years, and (2.5) years including credit spread duration.

All North America 2011 audits rated satisfactory

All CIO applications rated 'Good' or 'Excellent' under the Application Security Assessment process

All North America Sox financial testing on schedule at 100% as of December 31, 2011

No errors with material financial impact in 2011

Ongoing technology initiative to increase capability and streamline operating environment on track (APPIA)

Firm wide increased focus on key operating/ reputational risks & information security

From a project perspective, the APPIA project (to migrate trades off of 1B systems on to a suite of CIO owned systems) is making good progress. No significant issues were raised by Audit in Q4. Some of the key accomplishments in Q4 include: FAS 133 Pebt/Hedge Migration – Non USD Debt and Fair Value Swaps – November 2nd 2011; EMEA Treasury Risk Transfer Swap Migration – November 9° 2011; EMEA ABS/CLO Phase1 Migration – November 15° 2011; Asia Securities Migration Phase 2 (Hong Kong, China, Mumbal, Tahwan, Malaysia) – November 18° 2011; Differential Discounting Implementation – December 3° 2011. Key in-flight projects include: EMEA ABS/CLO Phase2 Migration – January 2012; Core/APPIA Integration for TBA's & Specified Pools – First Quarter 2012; Remaining Migration is Asia Securities Migration – Phase 3 (Tokyo, Sydney, Mania, Seoul, Jakarta). First Quarter 2012; North America Toronto Branch Swaps and Securities Migration – First Quarter 2012; EMEA CTS Migration – First Quarter 2012; North America Toronto Branch Swaps and Securities Migration – First Quarter 2012; EMEA CTS Migration – First Quarter 2012; INST District Project Books of of Pyramid – 1BD 2012; TRPL for ASIA- TBD 2012; MSR Migration from Kapital - will most likely be pushed into 2013 given current prioritization and staffing levels.

From a production support perspective, the Business Process Index (BPI), which is used to measure the availability of the CIO

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applications, remains stable at the 99% level. From a risk and control perspective, CORE, Shrek, TEA, Primus and Poplar are in scope for SOX testing. Clo Technology is on target to meet the firm-wide targets of 100% completion by Jaruary 31, 2011. There were no deficiencies identified to date. CloTreasury applications in scope for the Monetery Authority of Singapore (MS) remediation effort include: Shrek, Primus, TEA, TFA, GFRS, and SLWeb. Clo/Treasury is making good progress at the end of Q4, 2011.

#### EMEA

Audit Continued to hold periodic meetings with key stakeholders in CIO. The Q3 2011 BCC was held in early November 2011. CIO Continues to manage the investment portfolio in line with interest rate risk sensitivities transfer priced by Treesury and market apportunity.

Going into the new year, the plan is to expand the derivatives trading book to nominal of at least \$47billion by the end of January 2011 (he CIO international balance sheet currently has \$160bit of assets. The aim is to increase the income these assets generate. The respective credit limits end all other limits have to be increased accordingly. This is currently being reviewed by the relevant people in Market and Credit risk.

The change to Differential Discounting to OIS curve since November 2011 has had a positive impect of \$12min et year end.

EMEA Tactical (TRR) for Q4 was \$1.09 billion YTD, which is strong performance across all businesses. Credit Investments have strong results driven by strong performance in mezzanine paper and continued tightening of CLO spreads

SAA Portfolio: CIO's ABS portfolio has a value of approx. \$30. 7billion, with around 47% of such assets represented by RMBS [originated in UK end Netherlands]. Clo has unwound long term debt and Govt. Bonds in countries such as Spain and Portugal during the last quarter.



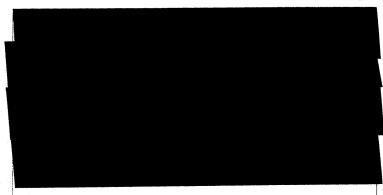
APPIA Migrations - the ABS/CLO migration from CONCORDEASIS to PRIMUS/OPICS is underway. An initial 28 trades were migrated in mid November and a parallel run over month end. There were issues relating to the bulk uploader of the trades into the new system. These required manual intervention. Subsequently, a further 10 trades were migrated in early December to ensure that this issues was addressed. Both sets of trades had a parallel run over month end and year end with no issue that the tenaining population on 24th January 2012. The migration is being audited as part of the CIO Credit Targeted review currently fundaments.

Regulatory Reform: Volker rule: Business has completed comprehensive mapping of desk level risk management products and strategies to firm wide structural risks and will focus on conducting risk management activities that are clearly related to underlying firm wide structural activities.

### ASIA

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### METRICS AND MONITORING

Market Risk Limits and Total Return and Trading Metrics summaries are reviewed by audit. In addition, weekly metrics for operations are monitored by audit. Weekly metrics consist of , P & L variances, cancel and amended trades, market limits and transaction volume to significant issues noted in Q4. Operational KPIs and P&L are primarily monitored through the BCC process.

Chief Investment Office highlights Q4 2011:

- TAA Returns of \$457 MM:
   Credit CDX HY positions were set up to take advantage of key bankruptcy credit related events which resulted in windfall gains for credit form.
- Credit CDA F1 positions were accepted and provided in a credit book.
   ABS and CLO markets were relatively quiet during the wider market volatility period and ClO continue to benefit from significant.
- amortizations and carry.

  Europe: Markets have remained volatile with overhanging concern around European debt issues and its political and economic

- Europe: Markets have remained voiable with overhanging concern around European debt issues and its political and economic impact on the region.
   CiCl profited from the widening of US asset swaps, but incurred losses in the structural management book from widening on long positions and in the FX portfolio on managing down-side risk.
   Asia: Gains driven by increase in Nill from long securities positions mainly in HK, Singapore, Indonesia, Korea, India, and China.
   FX gains from cross-currency appreciation in Singapore and currency appreciation in China
   North America: FX gains in long USQ positions as EUR weakened vs USD. Fixed income CMBS spreads tightened on the querter and Preferreds were marked higher as equity market railied. Gains from long equity positions as S&P was up 11.15% for the quarter.
- quarter.

   MSR: Loss of \$174 MM primarily attributed to duration, offset by MBS Basis.

EMEA CIO participates in a weekly MIS call with MO Audit attends as part of CA. There is a review operational weekly KPI's and back office metrics including bade capture and volumes, P&L and Risk sign-off, FOBO Reconciliations, nostro breaks and system. There were no significant operational issues for Q-I.

Asia

Asia CIO tabled MO and BO metrics in the quarterly BCC, which includes trade volumes, cancel and amends, late trades, P&L and Risk sign-off, FOBO Reconciliations, nostro breaks, etc. No significant items were noted by Audit during Q4 2011.

ISSUE FOLLOW -UP

Through CA activities, Audit tracks the entry of all audit issues and related action plans into Phoenix, monitors the progress through completion of action plans and subsequent closure of issues in Phoenix. A monthly analysis of open action plans is prepared and follow up with action plan owners performed by audit before the end of each month.

### North America

No new issues or action plans have been added for this quarter.

#### EMEA

2 new business identified issues end action plans have been added for this quarter;

- Transfer pricing rates between CIO & Treasury for REPOs: Technology are working on providing an automated solution to
  ensure that OPICs receives the correct transfer pricing rate on a daily basis. This solution will ensure that any re-rates on the
  repos between Treasury and CIO are in sync so that there are no P&L impact at month end to analyse and adjust for. Action plan
  is due for completion February 2012.
- GLRS Substantiation Review: There is inadequate documentation of CIO EMEA substantiation procedures incl. the methodology
  used to substantiate each type of GL a/c. Thus, GLRS Substantiation methods used by CIO EMEA personnel to be reviewed and
  documented and confirm appropriateness and consistency. ii. Compare substantiation practices used by CIO EMEA to CIO NA
  and CIO ASIA and address inconsistencies, as determined appropriate iii. Evaluate the ownership of the substantiation
  responsibilities and determine whether any changes should be made. Action Plan due for completion on 31 may 2012.

There was an audit identified issue raised as part of the Capital Hedging audit report (Report No: G-11/009). There 7 legal entities that were incorrectly included in the capital hedging program and receiving hedge accounting treatment by the CIO despite being correctly reported by the local LECs as having USD functional currencies, disqualifying them from the program. While the amounts being reported all related to FX exposure arising from USD incritional currency entities with non-USD equity positions, their removal from the capital hedging program may require reclassification of amounts historically booked to OCI dating back to May 2006, potentially resulting in a net S27 million gain (S27 million loss for the CIO and a \$48 million gain for the perent legal entities). Finalization of required reclassifications is pending confirmation of the go-forward accounting treatment of non-functional currency equity positions. The exceptions noted which date back several years are primarily attributable to existing controls not sufficiently ensuring the appropriataness of all LE in the program. The action plan is targeted for completion on 31 March 2012.

#### Asia

PLAN AND RISK ASSESSMENT CHANGES

CIO Tokyo
This has been deleted from the plan because audit work is to be performed in 2012
CIO Compensation Practices Horizontal
This has been deleted from the plan because audit work is performed by HR audit team
CIO Credit
This has been deleted from the plan because audit work is to be performed in 2012 for CIO.
CIO CSA Horizontal
This has been deleted from the plan because Horizontal not performed in 2011.
CIO ICAPH Horizontal
This has been deleted from the plan because CIO is out of scope for horizontal.
CIO Market Risk Amendment Horizontal
This has been deleted from the plan because Horizontal audit not performed in 2011.

MSR
This has been deleted from the plan because audit work is to be performed in 2012 for CIO.
Resolution and Recovery
This has been deleted from the plan because audit work is to be performed in 2012 for CIO.
Special Investments Group
This has been deleted from the plan because audit work is to be performed in 2012 for CIO.

OVERALL COMMENTS
SUMMARY

December 2011

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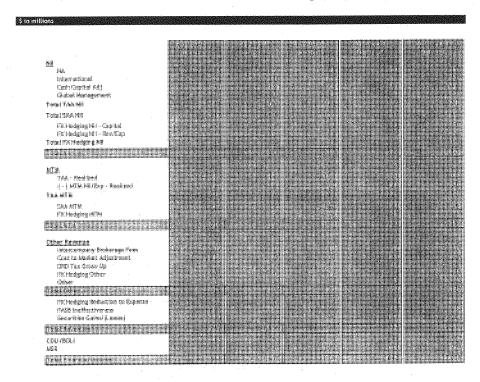
### Chief investment Office

Financial Summary (Corporate View	3					•
	Querter 1	Quarter 2	Querter 3	Querter 4	FY 2011	
	2011 Actuals	2011 Actuals	2011 Actuals	2011 Acquels	Actuals	
MTHA	374	130	(183)		233	- MITA print of 250mm in Quarter 4 mainly obtain by her burdruptcy credit excited events resulting in significant gains in the US High Weld CDS him
HB	407	M	310	-44	1,800	<ul> <li>Quarter 4HR includes one-time \$128 into Impact from system changes and differential ARS change.</li> </ul>
Security Gaires (Losses)	100 (70)	Ci.	440 #21	(74)	1,767	<ul> <li>Security towar primarily driven by sales of foreign government and conjuncts bounds and Other Than-Temporary-Imperment on Hon-Japonry Refer</li> </ul>
Other Revenue Yotal CIO Revenue		(9)) 192,1	153	(18) 785	(79) 1,716	
Tetal (10 Expenses (Ex K, FX & RP)	a	π	н	43	339	
Drenkend Ratio	£218	485	39.17%	11.765	9.19%	
FX He digiting Restrictions for Engages a Barrie RU (Lotte)	on	077	(41)	(8)	(17)	
ASA	36	21				
COLI/BOLI	45	10	*	#	197	
Total Return Summery				<del></del>		Q4_201
Total Economic Return	600	314		ы	N3	<del>_</del>
Total Economic Return Cost of Capital ¹	14	\$1	77	65	303	Credit: CDX HY positions were set up in take advantage of key banksuping undit related arone which required in visiothal gains for our credit book
Total Economic Return Cost of Capital  This Expenses (Ec.1C, Ex.EX)	56 22	81 23	79	65 20	303	Credit: CDX HY positions were set up in take advantage of key bankupter; unail related arrests which resulted in windful gains for our credit boo
Total Economic Return Cost of Capital ¹	14	\$1	77	65 20		Credit CDXHT peaklions were set up in take advertage of tay bordwarder, used related arrest which reached to wholl a gains for our credit book. ASS-and CCD makes two or relateday parts alrestly the values are to which peakled and us contribute to breakly the supplication execution.  Everya: Makes have remarked restly with twenturing grown arranged report to the rest.
Total Economic Return Cost of Capital  This Expenses (Ec.1C, Ex.EX)	56 22	81 23	70 (6/5)	25 118	303	Credit: CDXHT paskions were set up in faito advertage of tay bankupter; unsell related events within resulted game. In our credit books ASS and CLO markets were relatedary quant during New within result of volability period and we confirm to be under an algorithms.
Total Economic Rature Cant of Capital  TAA Exposure (Ex. K., Ex. FX) Pra. Tax SVA	56 22 520	31 23 206	79 28 (175) -1191 71	65 73 118	303 591 309 365 72	Credit CDXMT pushfore were set up in this softenings of key benkuping under risked somet solidar pushed in wheeling plan for our credit book. All on all CD markets were retained parties and an obligation prints and one controlled books that supplies the sound to controlled parties and the controlled books that the supplies of the controlled parties and the controlled parties and the controlled parties and the controlled parties and the public and controlled parties and the public and controlled parties and the public and controlled parties and the public and controlled parties and the public and controlled parties and the public and controlled parties and the public and controlled parties and the public and controlled parties and the public and controlled parties and the public and the public and the publ
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Telai Economic Raham Cant of Capital 1 Tal Espenses (Er. C., Er.P.S.) Pin. Tax SVA Rott 3. Tractive purely Aggregate VARPS 2. Tractive purely Aggregate VARPS 2. Tractive purely Aggregate VARPS ECP Capital (Held M.S.E.)	56 22 520 1901 64 671	81 23 206 845 644 1,861	79 28 (6/3) -119% 71 85	65 28 118 93 95	303 303 387 365 72 461	Credit CDX MY pushfore were set up in this private part has been part of the producting credit related control solids, reached in whether gas has been credit parts.  Add and CD market in the called your Aming the other and with the private control to be set the been the production of the private control to be set to produce of the private control to be set to produce of the private control to be set to produce of the private control to be set to produce of the private control to be set to produce of the private control to be set to produce of the private control to be set to produce of the private control to the private control to the

### Chief Investment Office Financial Supplement [Management View]*

	Quarter 4 2011 Actuals	Quarter 2 2011 Actuals	Quarter 2 2011 Actuals	Querter 1 2011 Actuals	Quarter 4 2010 Actuals	
Revenue						
TOLE MTM	330	(583)	130	376	192	
Security G/ (L)	£14I	448	838	90 (11)	1,207	
Total Other Revenue*	(26)	(80)			(134)	
Non Interest Revenue	249	(214)	891 645	395 407	1,265 270	
Fotal MI)	488 777	350 125	1,536	762	1,544	
Total Net Revenue	711	123	1,316	/84	1,344	
Expenses						
Compensation Expense (ex IC)	23	21	21	22	19	
Noncompensation Expense	70	69			29	
Total Non Interest Expense (ex IC, ex FX, ex RP)	92	91	77	49	46	
Overhead Ratio ex iC	256,)2	66.94%	4.99%	6.47K	3.08%	
COLVEOL	44	39	50	65	25	
KSR .	(174)	(283)	21	36	(109)	
MTAA Recynques by Restlett NA MTM	19	(156)	62	40	27	
MTM Rennential by Reiden NA MTM Europe	19 (20)	(44)	(2)	69	13	
MTM Revenue by Realists NA MTM Europa Auta	19 (20) 90	(44) (36)	(2) 18	69 31	13 33	
MTH Revocuse by Restlets NA MTM Europe Arts Citabal Credit Core	19 (20) 50 256	(44)	(2)	69	13	
MTH Revenue by Restion NA MTM Europe Aria Cidabal Credit Core Cidabal Credit Investments	19 (20) 90	(44) (36) 59	(2) 18 17	69 31 42	13 33 61	
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MTM Revenue by Resign.  MA MTM  Europe Ade Clobal Credit Core Clobal Credit Investments AA MTM  ACCOUNTING Related Adjustments: (-) ARTM NIL/Dep	19 (20) 50 256 5 0 409	(44) (36) 59 11 (195)	(2) 18 17 47 —————————————————————————————————	303	13 33 61 26 	
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### CIO Financial Income - December YTD Actuals [Management View]



## Corporate Recovery Portfolio Financial Supplement

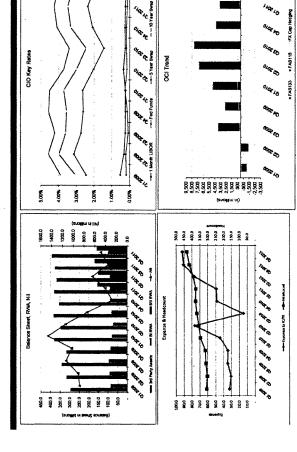
\$ in millions						
	 Quarter 4 2011 Actuals	Quarter 3 2011 Actuals	Quarter 2 2011 Actuals	Quarter 1 2011 Actuals	Quarter 4 2010 Actuals	
Revenue Total MTM Security G/(L) Total Other Revenue Hon Inturest Revenue Total NII Total Net Revenue	4 1 (2) 4 19 23	(27) 11 (3) (19) 19	(33) (1) (3) (37) 21 (16)	55 11 (2) 94 23 117	30 16 (3) 42 25 67	
MTM Revenue by Pottfolio ARS IB Recovery Portfolio WaMJ Total MTM	(0) 6 (2) 4	(16) (11) (27)	(17) (16) (33)	62 24 85	0 8 21 30	

## **CRP Financial Income - December YTD Actuals**

	2011 Actuals	ZOTI Agroals	2011 Actuals	9950 (1100.0)	
	Ottarter in	Obartor 2	Quarter 3		
Nil					
ARS	4	4			
IB Recovery Portfolio		12	1/2		
WaMu Total CRP NII		27	16		
MTM					
ARS			0		
IB Recovery Portfolio	67	(17)	(10)		
WaMu	7.4	116)			
Total CRP MTM	65	(30)	(27)		
Other Revenues					
Securities Gains/(Losses)	10	(4)	11		
Other Revenue	(7)	(3)	11)		
Impairment					
Total CRP Other Revenues	9	(4)			
Total CRP Revenues	117	(16)			

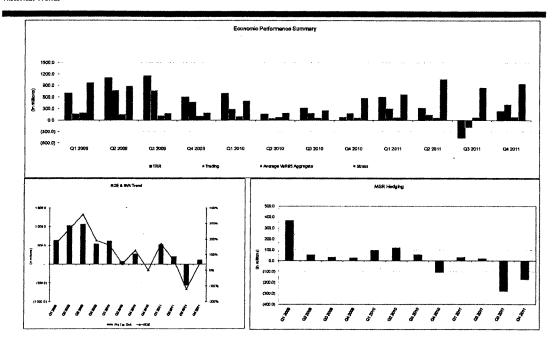
(Expenses to a millions)								
	2016	Astud	Actorit.	Alan	Astla 1		F. (b) .	
	FY Actual	Duminer 1	Quarter 2	Quarter 3	December BAW) vs MYF	(M) we letter	Querter 4	BITTH IN
CONTROLLARIE EXPERIESE SAMP and Derrefreige Pryore Las do (C)	61.2	184	19.3	8	7.2	(0.2)	20.6	88
Payed last on IC	11.5	24	12	2	1.0	(0.6)	1.9	(0.0)
Ptof and Childre Services	6.0	1.6	1,2	*	6.0	(0.1)	20	2
Tech sod Current(Martest Date, Weter, 88)	8.3	25	27	2.6	1.0	0.0	2.8	0.3
Revel and Entertainment	5	0.4	9:0	7.0	0.5	6.0	4.0	6
Employer Reinted Expenses	1.3	0.3	0.7	9.0	0.0	0.1	03	0.2
Tel Over	2	6.3	8	6.0	6.1	(8.0)	63	(6.1)
Twe Control ath Espaces	924	Ä	27.5	\$7.6	787	(8.1)	34.3	(6.5)
Non Controllable Expenses Pot and Oxfor Service/Not Fee	3	*	70	90	0.2	(0.1)	4	6.6)
Octoberty	9.2	2	2	2.3	0.0	(0.0)	23	(0.0)
Deprecial entitionalization of Avents	2.6	970	970	6.0	9.2	0.0	8	00
Diposit humanos	6.7	٠	26.6	8	91	(5.5)	31.8	(3.6)
Ontert Instruce	90	0.5	27	0.2	5 6	(a. 6)	0.2	9 9
Sandpreki President 114 OCC Fees	36.	9.0		88	2.8		3	
UK Bank kerr Sanday Milleaustoce CCC	44.7	10.9	37.8	808	16.0	(20)	480	(2.2)
Aberben	4 10		T 0		96	100	9.0	90
								6.0
Total Nav. Contratable a species								
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Automore Plan	3.7	1,2	1.6	1.1	98	0.1	7.	(0.1)
						i		
CO Limitas								
BAA frames TAA kunres	102.6 71.6	27.0	2 2 2 E	25.55 26.55	283	(5.2)	27.8	(3.5)
OIP	2.2	8	1,2	\$0	0,1	1.0	0.7	(0.0)
theselvent.	334	28	74	\$	8	<b>5</b>	\$	4

BANK PROPRIETARY AND/OR TRADE SECRET INFORMATION



Historical Trends

### Historical Trends



# CIO Balance Sheet - Regional View as of December 31st, 2011

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Investment Securities	171,5	146,5	16,0	0.5	334.
Trading Account Securities	13.2	16.5	5.4	1.1	36.
Fed Funds Sold/Resales	0.3	0.6	0.3		1.
Cash & Due from Banks	0.0	0.0	4.8	-	4.
Whole Loans Mortgages	13.3	0.0	0.0	enger of the same	13:
Other Assets	0.8	1.5	0.4	0.0	2.

in \$ Billions)	North America		Asia	CRP	Total
		Europe			
nvestment Securities	35.1	32.8	√*3.0	0,2	. /1.
rading Account Securities	3.6	14.3	1.8	1.4	21.
ed Funds Sold/Resales					
ash & Due from Banks	*	*	2.1		2.
Yhole Loans Mortgages	2.9	1975 1980	2		1.
ther Assets	0.5	0.9	0.2	0.0	1.

Balance Sheet - Bill	RWA Balances				
(In \$ Billions)	North America	Europe	Asia	CRP	Total
Investment Securities	36.3	41,4	4.2	0.4	82.3
Trading Account Securities	7.1	52.7	3.9	7.0	70.7
Fed Funds Sold/Resales	0.9	see journal of the	Contain Contain Section		0.9
Cash & Due from Banks	. THE TAY FOR THE SAME PROPERTY CONTRACTOR	with the forest contract the second	2.0		2.0
Whole Loans Mortgages	0.5				0.6
Other Assets	0.3	0.6	0.2	0.0	1,1
Total	45.2	94.7	10.3	7.4	157.6

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#### 2012 CA QUARTERLY SUMMARY Global Chief Investment Office First Quarter CA summary

1st Quarter					
LEVEL 1 Chief investment Office AMT Hatzopoulos, Alexa	ander X				
LEVEL 2 CIO AMT DIRECT McManus, William	K				
QUARTER 1 STATUS Approved					

# SUMMARY OF ACTIVITIES STAKEHOLDER MEETINGS

#### North America

CIO continues to manage portfolio positions with significant consideration of Basel III Capital requirements, resolution and recovery impacts, liquidity risk, as well as, enhancing and building out portfolio analytics for the structural asset allocation process.

Liquidity Risk Infrastructure:
Treasury - led initiative to build comprehensive firm-wide liquidity risk infrastructure
CIO engaged in reviewing business requirement and data sourcing definitions and 2012 planning

Implemented successfully in Q4 2012 for Equities in Pyramid and all Fixed Income Products.

GIC Competitive Bidding Process:
Firm - wide initiative to assess risk and related framework by product and region
Submitted formal assessment identifying business lines within the Bank that engage in competitive bidding transactions
Currently looking at consistency of controls across the firm

#### Regulatory

Volcker Rule:
CIO currently reviewing draft of rule recently released for comment period.
Technology design to tag trades in accordance with mapping documents completed. Final build-out pending final rule release.
Continued emphasis on conducting risk management activities that are clearly related to underlying firm wide structural risks.
Assessing MTM trading activity (# of trades, total notional) relative to underlying structural risk.

EMEA
Audit Continued to hold periodic meetings with key stakeholders in CIO. The Q4 2011 BCC was held in February 2012. CIO
Continues to manage the investment portfolio in line with interest rate risk sensitivities transfer priced by Treasury and market
opportunity.

- For 2012, the business priorities are:

   Managing portfolio positions with significant consideration of Basel III capital, liquidity and resolution and recovery impacts. Particular attention focused on the draft Market Risk NPR

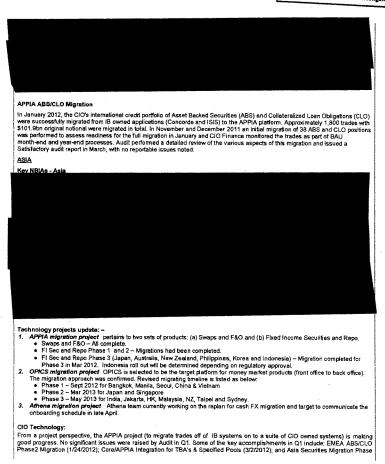
   Implementation of new Finance hierarchy in-line with business requirements

   2012 SAA Reinvestment program

- Enhancing and building out portfolio analytics for structural asset allocation process
   Expanding local market presence in concert with firm wide International growth initiatives

New Business Initiatives - EMEA

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Subcommittee on lovestigation



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 Subcommittee on Investigations

3 (3/16/2012). Key in-flight projects include North America Toronto Branch Swaps and Securities Migration (plan for May) and CORE (APPIA Migration (Working on on-boarding remaining securities in CORE onto APPIA). From a production support perspective, the Business Process Index (BPI), which is used to measure the availability of the CIO applications, remains stable at the 99% level. In February, EMEA Shrek was down less than an hour due to DB log issue. In March DB outages occurred after a long-running stored procedure filled the DB transaction logs. Stored procedure has been optimized, weekend purge jobs restructured, and DB re-indexing jobs now scheduled to run earlier for longer duration. From a risk and control perspective, CORE, Shrek, TEA, Primus and Poptar are in scope for SOX testing. CIO Technology is on target to meet the firm-wide targets of 35% by June 15th.

#### METRICS AND MONITORING

#### North America:

Market Risk Limits and Total Return and Trading Metrics summaries are reviewed by audit. In addition, weekly metrics for operations are monitored by audit. Weekly metrics consist of , P & L variances, cancel and amended trades, market limits and transaction volume. No significant issues noted in Q1. Operational KPIs and P&L are primarily monitored through the BCC process.

Chief investment Office highlights Q1 2012:

#### SAA Portfolio

The book value of the Strategic Asset Allocation Portfolio decreased from \$221B 4Q2011 to \$159B for 1Q 2012.

#### Attributed to:

Sales/Maturities of German/French/Canadian Government Securities Sales of ABS Credit Card Positions Transfer of CLO's from EMEA to North Amarica

#### MTM Overlay portfolio

(Note this portfolio is 99% trading, 1% Held for Investment)

MTM Overlay Portfolio Market Value for 1Q 2012 with a balance of \$554M & 4Q 2011 with a balance of \$1,233B.

The main drive of the decrease in this portfolio quarter over quarter is:

- Increase in Short US Treasury & Foreign Government debt positions of (\$490M) Sales of CMBS positions of (\$990M) Increase in the OCI balance from (\$7.4M) to (2.3M) is due to the sale of a Private RMBS position

## Corporate Retention Portfolio

The book value of the CRP Portfolio decreased from \$2.7B 4Q 2011 to \$2.6B \$1Q 2012

No significant variances to note.

#### Market Risk

12/31/2011 3/31/2012

Level 1 CIO+MSR VAR Limit MSR VAR Limit Level 2 MSR BPV Limit International Equity Vega (long only) only) International Equity Vega

Firmwide stress limit changes. The CIO MTM limit was increased to \$1bln and MTM positions in SAA, FX capital Hedging and CRP are now included in this limit.

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The Aggregate limit was increased to \$15bin and under this limit they include the stress on the SAA AFS portfolio . A stress limit for open FX exposures in FX Capital hedging was also added at \$800mm.

US Defined Pension and OPEB Plans

EMEA CIO participates in a weekly MIS call with MO Audit attends as part of CA. There is a review operational weekly KPI's and back office metrics including trade capture and volumes. P&L and Risk sign-off, FOBO Reconciliations, nostro breaks and system. There office metrics including trade capture and volumes, were no significant operational issues for Q1, 2012.

Daily P&L is also monitored. Audit noted the as of March 31 MTM losses of over \$500mm were experienced in the Credit Core (CDS) book. Further follow-up from audit established that the losses were due to the an increase in spreads on iTraxx. Audit will continue to monitor this portfolio.

Asia CIO tabled MO and BO metrics in the quarterly BCC, which includes trade volumes, cancel and amends, late trades, P&L and Risk sign-off, FOBO Reconciliations, nostro breaks, etc. No significant items were noted by Audit during Q1 2012.

## ISSUE FOLLOW-UP

North America
Through CA activities, Audit tracks the entry of all audit issues and related action plans into Phoenix, monitors the progress through completion of action plans and subsequent closure of issues in Phoenix. A monthly analysis of open action plans is prepared and follow up with action plan owners performed by audit before the end of each month.

No new issues or action plans have been added for this quarter

#### EMEA

There are 3 business identified issues and action plans have been added for this quarter and 1 action plan where the target date has been extended to June 2012 from December 2011.

- GLRS Substantiation Review :There is inadequate documentation of CIO EMEA substantiation procedures incl. the
  methodology used to substantiate each type of GL arc. Thus, GLRS Substantiation methods used by CIO EMEA personnel to be
  reviewed and documented and confirm appropriateness and consistency, ii. Compare substantiation practices used by CIO
  EMEA to CIO INA and CIO ASIA and address inconsistences, as determined appropriate, iii. Evaluate the ownership of the
  substantiation responsibilities and determine whether any changes should be made. Action Plan due for completion on 31 May
  2012.
- Model Documentation: Model documentation is required on SABR, Westend and Primus CMT systems in accordance Model Risk Policy, EMEA CIO to facilitate the overall Model Risk Management process, ensuring updated model inventories and follow-up on required documentation, testing, and other requirements mandated by the CIO Model Risk Oversight Group. Action Plan due for completion on 30 June 2012.
- Reconcillation of bonds set up in CIOWEB: Bonds set up in CIOWEB have their Issuer SPN manually attached by whoever is setting up a bond and the incorrect SPN can be selected. This causes downstream risk to calculate incorrectly misstating the positions and risk of CIO. Currently one SPN needs to be set up and mapped for every different ABS tranche that CIOEMEA purchase. The reason for this was a system deficiency in JPM IB that caused SPN to be used as a substitute for ISIN. It has now been agreed that CIOEMEA should now map all ABS tranches from one issuer to one Issuer SPN. This will have the following benefit:

rollowing benemis:
i) Reduce the current number of Issuer SPNs from 941 to 263
ii)Eliminate the need to request a new SPN with each tranche purchased

iii)Greater accuracy in ABS to SPN mapping iv)The volume of SPNs previously created also meant that details entered on to the SPN record were often incomplete - the rationalisation of the ABS SPN process should allow more accurate records to be maintained. Adobo Flan is due for completion on 31 May 2015.

- Amortization on AFS Portfolio vs. Cash: Amortizations on the AFS portfolio are calculated at month end as part of the regular control procedures around the AFS portfolio. The cash relating to these amortizations isn't necessarily received in the same month as when the amortization occurred. This generates a break between the amortizations calculated the cash received which is subsequently unsubstantiated. Detailed analysis on an ISIN basis is undertaken to identify those securities where cash received straddles month and and resolutions for any breaks ere assisted by the cash peryments team. The resolution was delayed as the ABS migration was delayed last year and resolution was dependent on that. Post ABS securities being migrated onto OPICs in Cd 112, once the balances have stabilised, further analysis can be undertaken to clear the breaks. Expected resolution date 2 months post migration. Action Plan currently set for June 2012 completion.
- resolution date 2 months post migration. Action Plan currently set for June 2012 completion.

  CIO Credit-Market Risk and Valuation Pracilisea issued March 2012 rated Needs Improvement identified the following issues:

  CIO VCG practices where a number of nisk & valuation models have not been reviewed by Model Review Group and included the absence of a formally applied price sourcing hierarchy, insufficient consideration of potentially applicable fair value adjustments (e.g. concentration reserves for significant credit indices positions) and the lack formally documented dehodology to outline key testing components (e.g. computational method and shock factors used) or assess limitations such as off-line risk measurement, missing risk factors and curves.

  The SAA book (\$1408n Notional as at 12031) does not currently feed the firm wide market risk inits and thresholds framework and relevant SAA stress testing results are not measured against corresponding limits.

  EMEA CIO is currently using unapproved models in the calculation of nisk (including VSR) and associated risk measurement methodologies have not been appropriately documented and/or catalogued.

  The control process around the off-line VSR calculation needs to be enhanced to ensure completeness and accuracy of Credit trade data used in the offline calculation of VSR.

Asia
All the issues and action plans raised from 2011 audit were complete and Phoenix issues were closed accordingly before target

#### BUSINESS CHANGES

North America: Dave Alexander (CFO), left CIO for RFS and was replaced by David Bjarnason who has announced his resignation and will be transitioning out of this role in the 2nd quarter.

EMEA - David Bjarnason (EMEA Accounting Policy and Control) is leaving the firm in Q2, 2012. There is currently no indication as to whether he'll be replaced.

Asla - N/A

#### FOLLOW-UPS

## EMR AND AUDIT REPORT ISSUES

Through CA activities, Audit tracks the entry of all audit issues and related action plans into Phoenix, monitors the progress through completion of action plans and subsequent closure of issues in Phoenix. A monthly analysis of open action plans is prepared and follow up with action plan owners performed by audit before the end of each month.

No new issues or action plans have been added for this quarter.

#### PLAN AND RISK ASSESSMENT CHANGES

Not Applicable. No plan or risk changes in 1Q 2012.

# OVERALL COMMENTS SUMMARY

The following audits were completed during 1Q 2012:

North America: ASC 815 Hedge Accounting (Satisfactory)

EMEA: İ. CIO APPIA Systems Migration (Satisfactory) II. CIO Credit- Market Risk & Valuation Practices (Needs Improvement)

From:

Kamath, Jairam

To: Sent: Subject:

Crumlish, Fred>;<Hohl, James> 4/19/2012 12:51:47 PM CIO and firm VaR excessions - COB 4/17/12

The Firm's 95% 10Q VaR as of cob 04/17/2012 has increased by 6mm from the prior day's VaR to 134mm and continues to breach the \$125mm Firm VaR limit for the second consecutive day.

The increase in the Firm's VaR is primarily driven by CIO Synthetic Credit portfolio. Actually, VaR for this portfolio declined slightly from the prior day. The stand alone VaR for CIO is \$75mm (vs. \$95mm limit),

CIO aggregate stress loss is over 23% of its \$15B limit. Also, MtM cs bpv limit is in excession by 1074% and has been in excession for 71 days.

Something to follow up in the next MRR or CIO meeting.

## jairam.kamath@occ.treas.gov Tel: 212-899-1386

BB: 202-368-9193

Fax: 301-433-6238

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From:

Sabatini, Joseph

To: CC: Sent:

Subject: Attachments:

Sabatin, Joseph

Regulatori), Anna <lacusci>;Regulatori), Fred X <Crumlish \>
<Drew, Ina>;<Hogan, John J.>;<Wilmot, John>;<Goldman, Irvin J>;<Radin, Neila>
4/10/2012 6.17:22 PM

Background and Supporting Data for CIO Discussion of April 9, 2012
image002.png

#### Anna, Fred,

Here is the supporting data and some commentary as you requested from our call yesterday afternoon. As we indicated, you should feel free to contact John Wilmot (212-834-5452), Inv Goldman (212-834-2331) or Ina Drew (212-834-5000) if there are any questions. I would be happy to coordinate any follow up as well (212-848-0082).

The table below shows major (and total) long and short risk positions in indices - and totals for long and short risk in tranches.

Surrrary of Po	etions		LONG S	SHORT	Grand Total
Minjor Index Positions	CDX HY 508 05Y	external internal	7,853,202,000 120,050,772,331	-1,362,900,000 -111,111,450,331	6,490,302,000 8,939,322,000
	CDX HY S08 05Y Total		127,903,974,331	-112,474,350,331	15,429,624,000
	CDX IO 509 05Y	external internal	18,862,584,439 1,378,820,642,166	40,911,107,639 -1,388,447,498,966	-22,048,523,200 -9,626,866,800
	CDX IO S09 05Y Total		1,397,683,226,604	-1,429,358,606,804	-31.675.380.000
	CDX IG S09 07Y	external	34,937,540,005	-3,869,096,000	31,068,444,009
	CDX IG S09 07Y Total	internal	1,159,939,174,565 1,194,876,714,570	-1,158,009,466,965 -1,161,878,562,965	1,929,708,000
	CDX IG S09 10Y	external	78,381,380,000	-3,421,154,000	74,960,226,000
	CDX IG S09 10Y Total	internal	1,578,072,188,019	1,574,704,274,019	3,367,914,000 78,328,140,000
	ITRAXX MN S09 05Y	external	39,630,987,500 1,650,432,937,345	-24,870,950,000 -1,642,696,637,345	14,760,037,500 7,736,300,000
	TRAXX MN S09 05Y Tot		1,690,063,924,845	1,667,567,587,345	
	ITRAXX MN S09 10Y	external Internal	28,612,411,848 832,410,632,093	-10,796,366,848 -833,151,047,083	17,816,045,000 -740,415,000
	TRAXX MN S09 10Y Tot		861,023,043,941	843,947,413,941	17,075,630,000
	ITRAXX MIN S18 05Y	external internal	28,093,325,000 315,479,043,750	-6,267,525,000 -318,937,593,750	21,825,700,000 -3,458,660,000
	TRAXX MN S16 05Y Tot		343,572,368,750	325,205,318,750	18,367,050,000
	Subtotal of Meior Index Positions All other Index Positions		7.271.576.821.060	-7.118.557.267.555 -3,271,688,007,677	153.019.553.505 -51,577,448,595
Total of Index P			10,491,687,380,138	10,390,245,275,232	101,442,104,906
Total of Tranche Positions		361,998,489,148	-306,133,417,090	55,865,072,056	

The note below describes this credit derivatives activity relative to the overall CIO activity.

The Chief Investment Office has utilized the "synthetic credit portfolio," which is a portfolio of credit derivatives, to construct a hedge against other risks on JPMC's balance sheet. This activity has been part of the CIO portfolio construction and risk management since 2007. The related credit derivative instruments offer an efficient means to establish protection against adverse credit scenarios and "stress events".

This activity is among the key tools utilized by CIO to manage and hedge stress loss risks. The synthetic credit portfolio has benefited the Firm, especially in times of credit market dislocation, sudden spread widering and in the occurrence of defaults, which is typically a catalyst for credit spread widering scenarios.

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In Q3 and Q4'11, CIO began to reduce the net stress loss risk profile of the hedges, as more positive macroeconomic data in the US and an improving situation in Europe post LTRO merited a reduction to the stress loss protection of the "synthetic credit portfolio." The book, as a dedicated hedge, continues to be short HY and to provide default protection.

#### CIO Risk Committee Minutes -March 28th, 2012

Attendees Chair: Irv Goldman Co-chair: Ina Drew Irene Tse Achilles Macris Norma Corio Richard Sabo Neila Radin

Pete Weiland Samantha Tocchio John Wilmot Phil Lewis

#### I. Risk Overview

A. VAR: P. Weiland discussed the VAR trend for the first quarter highlighting the large reduction in VAR at the end of January. The reduction was driven by the implementation of a change to the VAR model for the Credit book in London. It was noted that the model change was in line with the VAR methodology recently adopted in the IB and was approved by the model review group.

Action Item: Explanation of relationship between VAR, stress VAR and Capital. The Quantitative research group and the Firmwide Market risk officer to discuss with the CIO business.

B. Stress: The results of the Credit crisis stress scenario were reviewed and P. Weiland commented that the positive benefit experienced from the Credit Tranche book reduced over the quarter and is now negative. This resulted in the overall stress loss increasing by \$1.2bin.

Action Item: Develop proposed thresholds, such as stress advisories, for the Retirement Plan.

C. Risk Measures: The key risk positions globally were discussed. It was commented that a trend of exposures would be

Action Item: include a trend of the key risks along with the relevant limits.

#### II. Risk Limits

A. Risk Limits: The proposed limits framework was presented to the committee noting that a full overhaul of all limits is underway. Over the next few weeks the limits will be discussed with the individual regions and presented back to the group for approval. It was also noted that in addition to the existing limits thresholds will be added, such as CIO specific county risk thresholds. P. Weiland raised the issue regarding the existing Single name limits applied to the investment portfolio. It was noted that some issuers are in excess of the SAA single name limits. It was decided to seek approval to maintain but not increase a request for increase accounts for increase accounts.

increase exposures for issuers currently in excess.

Action Item: MRM to follow up with the regions to consolidate a proposal for all single name limits.

B. Limit Excesses/Change: The Q4 2011 and Q2 2012 to date Limit excesses and changes were reviewed. It was noted that with the limit framework under review a number of the existing limits, such as the Credit spread BPV limits, are no longer appropriate for the current portfolio and will be revised as part of the review.

#### III. Risk Policies

A. Risk policy Review: P. Welland noted that Donna Reino has been named new Head of Risk Policy firmwide. In conjunction with the new head of risk policy and the Risk working Group, CIO will review all relevant firmwide policies. The list of policies in scope was attached in the materials.

B. Model risk Procedures: The new CIO Model Procedure document was distributed to the group, noting the appointment of a CIO model risk officer as one of the major changes to the prior version. The policy was approved.

#### IV. NBIA

A. NBIA Status Update; I. Goldman noted that two NBIAs are currently in progress relating to Whole Loans in Residential and Commercial Real estate. Both NBIAs are in initial stages and require further work.

B. Updated NBIA Document: J. Wilmot discussed an update to the NBIA document to include a Competitive Bidding section. This was incompliance with the Firm wide change. The NBIA change was circulated to the Committee for approval.

#### V. Operational Risk

A. Internal Audit: The group was updated on the status of the EMEA Credit Audit. An initial draft was published with final close out session to be completed over the next few days. Documentation was listed as one of the audit issues. The Scope of the review to be discussed with the Audit team.

Action Item: Follow up on initial Audit plan scope.

#### VL Regulatory

A. Volcker Rule: N. Radin noted that CIO should start to think about how to document conformance with the Policy in preparation for the final rule release, leveraging the format from the IB.

Action Item: Logal to follow up on consistency with colleagues in other businesses.

B. Derivative Activity: The outstanding issue regarding the FAS133 swaps and the novation to the LCH was discussed, noting the delay in resolving this issue exposes the business to counterparty risk in terms of 'wrong way' risk. Action Item: Include a review of counterparty exposure at the Risk Committee meetings.

#### VIL Governance

A. Investment Committee: The group discussed establishing a CIO Investment Committee. It was commented that the group would not be responsible for the approval of transactions but would be responsible for vetting deals for appropriateness of investment mandate. The committee members would be a subset of the CIO management committee. B. Repartacional Risk Committee: CIO to establish a Reputational Risk Committee. The possibility of leveraging a resource that currently chairs the IB and OEP committee was discussed.

#### VIII. Fiduciary and Compliance

A. NDA; I. Goldman discussed the current process which involves the portfolio managers sending requests to Legal and the CIO CRO. The preference to receive a summary from the portfolio managers was discussed.

#### IX. Other Items

A. Other Risk Businesses: The CIO MRM team performs the risk function for the Global Treasury and Mortgage banking Pipeline/warehouse businesses. Further discussion on whether this function should reside with the CIO Market Risk group.

From: To:

Crumlish, Fred

Sent: Subject:

<McLaughlin, Doug>;<Frake, Ron> 4/19/2012 5:53:58 PM FW: JPM CIO / IG9 "whale" trade

Doug FYI. I thought I did copy you on this.

Ron - just if you're curious.

Prop or not prop, that is the question....

From: Crumlish, Fred
Sent: Tuesday, April 17, 2012 04:33 PM
To: Brosnan, Mike; Belshaw, Sally; Pfinsgraff, Martin; Waterhouse, Scott
Cc: Wilhelm, Kurt; Banks, George; Fursa, Thomas; Hohl, James; Karnath, Jairam; Kirk, Mike; Monroe, Christopher; Swank, Todd; Wong, Elwyn
Subject: JPM CIO / IG9 "whale" trade

On Monday 4/16 OCC and FRB examiners met with Ina Drew and several members of CtO staff and risk management to discuss the JPM synthetic credit book in view of recent press reporting. This message provides a summary of our discussion, followed by a more the detailed summary. It focuses specifically on recent changes to the synthetic credit

- JPM's CIO has been using a synthetic credit (credit derivative) portfolio since 2007. It was initially set up to provide income to mitigate other significant credit losses that would surface under a broad credit stress scenario. Since it wasn't possible to tailor a specific hedge to the JPM balance sheet as a whole, this portfolio was constructed. As the investment portfolio grew in 2007-2009, the synthetic credit portfolio was used to hedge stress and jump to default exposures in that portfolio as well.
- CIO's credit derivative position was managed to provide around \$1 billion to \$1.5 billion income in credit stress scenarios against firm wide losses of \$5 billion to \$8 billion.
- In late 2011, in view of a change in perception in the state of the economy, CIO managers decided to reduce high-yield (HY) credit protection; however, after the AMR bankruptcy and with Kodak expected to file for bankruptcy, the markets for CIO's HY indices weren't liquid enough to use them to unwind CIO's position.
- The IG 9 index, which is much more liquid than HY indices, includes five "fallen angels" that allowed it to be used to reduce a "good part" of CIO's HY position, so it was used to reduce the HY protection
- The IG 9 market is not illiquid as it trades around \$10 billion daily and spread changes for this index are in line with peer indices. The IG 9 curve has steepened in a move of around 6.5 standard deviations, and there has been strong buying of deferred contracts, implying that the buyers are certain that there will be no defaults in the next 9 months and nearly certain that there will be defaults next year. In view of events, however, JPM is conducting a "post mortern" of the IG 9 situation and its impact and share results with OCC and when

The CIO began using credit derivatives around 2007 as part of its mandate to manage structural balance sheet positions. CIO only uses credit derivatives on indices, not specific names. Initially CIO bought protection (shorted risk) on mortgages, using ABX, and high yield indices to mitigate some of the firm's balance sheet credit exposure. At this time CIO investments were highly concentrated in Agency pass-through mortgage securities, and the structural credit risk was in the lines of business.

Through the financial crisis deposit inflows combined with lower loan demand to leave the firm with significant excess funds. As part of its mandate to invest, when appropriate, in high credit quality, liquid investments, the CIO began

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purchasing low credit risk, top of the capital structure securities to use the excess funds. While high quality, these investment securities have more credit risk than the U.S. Agency pass-throughs that continued to be held, so that structural credit risk in the investment portfolio increased along with portfolio growth.

Throughout this the CIO continued using index credit default swaps (CDSs) to mitigate some of the structural credit risk in the investment portfolio and the lines of business other than the investment bank, which manages its own credit risk exposure. While there are liquid markets for many credit derivative indices, the markets are not deep enough to fully hedge a multi-trillion dollar balance sheet. CIO's credit derivative position was managed to provide around \$1 billion to \$1.5 billion income in credit stress scenarios against firmwide losses of \$5 billion to \$8 billion.

CIO managers decided to reduce the high yield credit derivative protection around Thanksgiving last year. After the AMR bankruptcy filing on November 29, 2011, the firm profited from its credit derivative positions as anticipated, but high yield index derivatives had limited liquidity as demand increased. CIO managers thought that it wouldn't be possible to reduce the high yield credit derivative position by using the indices that created it, the best available hedge product was the IG 9 index, which has good liquidity as an investment grade index and a high yield component as five of the index companies are "fallen angels" i.e., companies that have fallen below investment grade since the index originated. This was the reason that JPMCB began selfing IG 9 CDSs; going long IG 9 credit risk (selfing CDSs) would neutralize some of the short high yield credit risk position (long CDSs).

JPM provided the CIO notional CDS exposures as requested, along with a summary of the synthetic credit portfolio maturity profile and results of a 10% credit spread widening (CSW). The CIO CDS portfolio includes exposure to JPMC's IB along with third parties. The third-party counterparties are all major banks or broken/dealers. The stress results show that the CDS portfolio net exposure cannot be judged by looking at notional exposures alone. An example given is the ITraxx Main 20Jun13 position; the notional exposure is \$28 billion long risk suggesting a loss if credit spreads widen, but the 10% CSW shows a profit of \$68 million because of equity tranche protection that is part of the position.

The synthetic credit portfolio position now provides around \$434 million income in the credit crisis stress scenario. Very generally, the portfolio risk profile is short high-yield risk against long investment grade risk and short shortduration (to yearend 2012) investment grade risk against long long-duration investment grade risk, i.e. a credit curve flattener. The portfolio VaR was \$59.2 million on April 5th. The portfolio is reported in CIO positions and subject to all of the JPMC market risk management systems.

Through the indices used, the portfolio provides credit protection on 588 names. 121 of them are from the IG 9 index, which currently gives an average \$148 million jump to default at market recovery gain per name. This position is stable until December 20, 2012 when \$32 billion of short-dated protection rolls off along with \$4 billion of protection on IG 9 equity tranches, and the average jump to default at market recovery becomes a loss of \$572 million per name. Before that happens, CIO managers feel they have time to adjust the portfolio to compensate without roiling the IG 9 market.

In addition to inclusion in the firm-wide stress scenarios, CIO managers routinely run other stress scenarios to assess portfolio performance in a variety of circumstances. The synthetic credit portfolio is seen to provide stress loss protection in an environment of significant credit deterioration with defaults or perception of imminent defaults.

CIO managers have been surprised that the IG 9 market has been so willing to take on and sell so much protection, regardless of what JPMC did. The market is not illiquid as the IG 9 trades around \$10 billion daily. The spread changes for this index are in line with peer indices. Many market participants have been storp buyers of deferred contracts, implying that they had complete certainty there would be no defaults in the next 9 months and near certainty that next year there will be defaults. The IG 9 curve has steepened in a move of several standard deviations. CIO managers said that the curve steepening move was around 8.5 standard deviations from the mean. A review of the IG 9 situation is being done, and it will be shared with the OCC and Fed when completed.

#### Attendees

JPM: CIO attendees: Ina Drew Chief Investment Officer, John Wilmot CIO CFO, Achilles Macris CIO Menaging Director EMEA (telephone), Javier Artajo CIO Managing Director EMEA (telephone), Irv Goldman Market Risk Management Managing Director, Pete Weiland Market Risk Management Managing Director, Pete Weiland Market Risk Management Managing Director, Keith Stephan Market Risk Management Executive Director EMEA (telephone), Greg Baer Managing Director Associate General Counsel, Joe Sabathri Managing Director Head Supervisory Relationship

OCC attendees: Fred Crumlish, James Hohl, Mike Kirk Fed attendees: Anna lacucci, two others

- apc

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From: To: Sent: Subject: Brosnan, Mike <Eccles, Jennifer> 5/29/2012 1:03:19 PM FW: May 15 CIO

From: Waterhouse, Scott Sent: Tuesday, May 15, 2012 4:22 PM To: Brosnan, Mike; Belshaw, Sally Subject: Fw: May 15 CIO

Not sure if you want these, but here's a more complete summary.

Sent from my BlackBerry Wireless Handheld

From: Crumlish, Fred Sent: Tuesday, May 15, 2012 04:16 PM To: Waterhouse, Scott Ca: Wong, Elwyn; Hohl, James; Kirk, Mike Subject: May 15 CIO

OCC/FRB/FDIC met with JPM for a daily update on CIO. (Partial list of attendees at end of message). Highlights

- This update wasn t supported by quantitative information requested yesterday. Bank continues to work on P&L explain and new risk reporting and other information described yesterday, and hope to be in a position to go over this with us later this week. OCC wants a risk dashboard and P&L as a basis for discussion
- ♦ Yesterday ♦s loss was ♦smaller. ♦ Although daily losses are becoming smaller, the total 2Q loss is now around \$3B.
- Company continues to bring new people into CIO, and also borrow risk and middle office personnel from other LOBs to help work through position issues.
- JPM ran CCAR on the position but it generated a 600MM profit d/t different HY and IG spread treatment in CCAR. Company is working on a worse case forecast.
- Mike Cavanaugh provided an overview of his roll regarding identifying what went wrong and what needs to be improved. (Hogan mentioned that he asked all his CRO to go back and review their limits and make sure that they make sense. He wants line of business CROs to discuss with CEO and come back with any changes)

Detailed notes

Bank believes they can provide us with the daily data we wanted on P&L and risk tomorrow. OCC wants a @dashboard@ with risk and P&L that can serve as a basis of discussion during

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updates. OCC also requested daily P&L since the start of the year. Company is working on it and hopes to deliver P&L tomorrow with a risk update later in the week. (SW is providing JPM with the distribution channel for OCC).

Cumulative loss for quarter is \$3Bn.

Daily P&L: Size of daily losses shrinking last couple of days so hopefully �blood in water� is improving. Flat early in day then Greeks couldn�t form govt election announced, risk went wider as markets in Europe sold off. P&L-75MM; 40 directional, 32MM of correlation, 40MM of series 9. Some profit from decompression.

Iti government bonds 15 wider to Germany. Sov CDS circa 15 wider.

Not much liquidity today. Took off only 250MM of iTRAXX Main today.

10% CSW changes: Cumulative daily reductions = 171MM reductions, offset by 90MM of drift. Net reduced 83MM. Current risk roughly 209MM for 10% CSW. As shock is held constant, the 10% shift of wider numbers results in a larger exposure.

.CS01 went from \$51MM to circa \$28MM.

No other risk updates.

Bank is very cautious about potential unwinds and is open to reverse inquiries, although there have been a few from banks. Multiple HF inquiries were characterized as information fishing. JPM indicates that if provided a request with pricing and size, JPM will respond.

Portfolio to theoretical relative value is getting closer to normalization; for the six factors excluding directionality. Bank will get back to us with risk numbers and will go thru limit structure and risk information at a near meeting (Thurs or Fri)

Collateral: As of COB of 5/14 is now at 156MM vs 69MM cob. Friday, Itraxx 10 year, moved to \$42MM from \$10MM. MS largest dispute was \$27MM Friday now \$46MM. Only MS had escalation calls. Head of MS Fixed Income didnet mention it today on a call with JPMorgan though. Generally collateral posted as Cash or Treasury bills. Bank will give specifics to counterparty and what is posted. If not cash or TBills the bank will provide with haircuts.

Nothing new on RWA/capital from yesterday. Company is working on.

Stress: Nothing new to report since yesterday. Bank estimates will take a few days to get stress numbers for us. They had running CCAR shocks but this produces a gain of \$600MM on portfolio. Compression trade offsets directional losses. (CCAR HY widens more than IG, generating a gain). JPM is working on a 20rst case scenario.

Cost of exit today on capital and income. Still being worked on.

Size of AFS portfolio: Mostly high quality paper.

Dec 31 \$331B

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Mar 31 340B

May 9 very similar.

JPM is working on updated security detail we provided, but indicated that CIO&s contribution to the liquidity buffer is 20B

Infrastructure and personnel: Nothing new to report. Quick update: Continue to work on data base for historical data; some assistance from CH MO on data staffing. BAU processes enhanced from borrowing staff from Asia to Europe. Market risk borrowing James Dwyer and Arnaldo to help with review. 2 modeling people assisting, 1 for models, one for VAR.

#### Clearing:

Clearing: Ice: Submit all that they can; most of index positions. Tranches and certain older indices don t clear. Some cps haven to boarded onto Ice, so not 100% of eligible cleared (Citi and some Soc Gen). On net notional basis 72B of total was eligible, 63B ineligible. Gross \$116B eligible, and 78% has been cleared. Trades done this week have been submitted to ICE clearing process tonight, will find out on Friday. On Friday expecting this % to go over 80%

Legal Entity booking: JPM walked through back office processes. (Separate paper handout). This included a description of risk transfer from branch to Whitefriars (A Reg K vehicle) as described yesterday. This was done at request of FRB.

All margining processes are handled on a net legal entity basis centrally by a group in IB (both for ICE and bilateral). No disputes with ICE b/c post what you have to post. No reconciliation to what ICE asks for vs. what JPM expects to post. Don think they look at the data that way bank will confirm that.

Mike Cavanaugh provided an overview of his roll. He is working to identify breaks in oversight and controls. Work streams are being defined. History fact pattern is one stream; developing picture control environment (valuation, market risk, models, all controls); remediation effort. Can to tutine frame on completion, but would like to have something to have present to investors, and Board.

Hogan directed all CROs are looking at all key metrics, and then will discuss with business CEO and decide if MR thinks they are effective. They will then be review by CRO (Hogan) and CEO.

Bank: Matt Zames, John Hogan, Ashley Bacon, Chetan Bhargiri, Marie Nourie, Canvenaugh, Venkar, others from JPM London on the phone. OCC: Scott Waterhouse, Fred Crumlish, James Hohl, Elwyn Wong, Mike Kirk

FRBNY: Diane Dobbeck and others

FDIC:

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Jan-C7-2011 02:59 PM JP Morgan Chase 2128346011

1/3

1/1

Jan-07-2011 10:05 AM JPMorgan Chase 212-834-6550

## JPMorgan Chase & Co.

January 7, 2011

Scott N. Waterhouse Examiner-in-Charge OCC National Bank Examiners 1166 Avenue of the Americas, 21st fl New York, New York 10038

Re: Investment Portfolio Examination

Dear Mr. Waterhouse:

We appreciate the time that you and your colleagues have spent reviewing the CIO investment Portloto. On the next page, you will find our response to the Matter Requiring Attention (MRA) detailed in your letter dated, December 8, 2010.

Please let us know if you would like to discuss the attached in more detail. We took forward to your feedback.

ine D. Omiri

ina R. Drew Chief investment Officer

oc; Jemie Dimon, Labe Jackson, Barry Zubrow, Stave Cutier, Doug Braunstein, Robert Suthvan (PWC), Kenneth Egen (FDIC), Joseph Bonocore, John Wilmot, Alex Hatzopoulos, Adem Gilbert, Joe Sabetird

OCC-SPI-00011198

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#### JPMorgan Chase & Co. Management Response to the Investment Portfolio Examination January 7, 2011

#### Matters Requiring Attention

Response: CIO will produce a Strategic Asset Allocation ("SAA") Policy document that lays out the existing process and control framework in place around the management of the investment portfolio. The policy will describe:

- Governance structure for the SAA
- Investment review and approval process, including DoB management
- Investment objectives and parameters applied to the portfolio

Response: CIO has commenced preparing minutes of the weekly SAA Investment meetings discussing structural risk and the related management of the investment portfolio. Duration of equity targets (generally in the form of a range) will be documented and appropriately shared at relevant management meetings, including senior ALCO, for additional consideration. The duration of equity target is established by the Chief Investment Officer of the firm and discussed and agreed to with the firm's Chief Executive Officer during periodic business reviews throughout the year and annually with the Board of Directors.

Response: In management of the SAA portfolio, CIO does not set explicit long term asset allocation targets. CIO's investment thesis requires a more timely review since markets have historically been, and we believe will continue to be, volatile. Portfolio requirements are analyzed within the context of the evolving balance sheet and income needs and the macroeconomic environment, and appropriate investments are identified based on satisfaction of those requirements and market opportunities available.

- However, we understand the OCC's concern, and with regard to the specific requests:

  Overall portfolio objectives will be articulated in the SAA Policy document.

  "Exposure targets and asset parameters" will be addressed through an SAA risk framework document. The portfolio meanagers have standards that are agreed to with the Risk team, and a document describing those standards will be made available.

Redacted by the Permanent Subcommittee on Investigations

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Response: CIO has historically maintained a "watch list" which includes below-investmentgrade and nonrated securities. The Firm has now established a process of ensuring that all applicable below-investment-grade and nonrated securities are reported by the Firm's Risk Reporting and Finance Group to ensure full compliance with OCC Bulletin 2004-25.

From: To:

Kamath, Jairam

Sent: Subject: Attachments: Crumlish, Fred; Hohl, James 5/7/2012 7:24:09 PM RE: CIO Synthetic Position CIO MtM Stress_42612.xtsx

Per the most recent FSI/MaRRS stress report as of 4/26/12, CIO's worst case MtM stress scenario was the Oil Crisis (see attached excerpt). Stress losses of \$1.71B exceeded the limit of \$1B. Stress loss was driven primarily by the NA Strategic Asset Allocation (SAA) book (\$724mm) and the EMEA synthetic credit tranche book (\$665mm).

#### The Oil Crisis scenario assumes:

- Severe (+) shock in oil prices (100% rise in oil, vols increase 60%).
- Large (+) shocks in interest rates (2 yr down 30 bps, 10 yr down 53 bps, vols up 140%) and inflation (details not available).
- Large (-) shocks in equities (down 30%, vol up 10 pts) and EMFX (5%-23% depreciation).
- Small (- or +) shocks in all other asset classes.

## jairam.kamath@occ.treas.gov Tel: 212-899-1386

BB: 202-368-9193 Fax: 301-433-6238

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From: Crumlish, Fred Sent: Monday, May 07, 2012 8:33 AM To: Kamath, Jairam; Hohl, James Subject: RE: CIO Synthetic Position

Regarding the CIO, we will need a breakdown of the drivers of significant stress loss numbers , (eg, not just the scenario name, but the specific factor driving the change.)

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From: Kamath, Jairam Sent: Monday, May 07, 2012 6:38 AM To: Crumlish, Fred; Hohl, James Subject: Re: CIO Synthetic Position

That is indeed a whopper. I don't think we get the daily or the weekly PnL reports for CIO.

Chris is working on the weekly summary for last week. He should be sending it out today. Geralynn prepared the summary for the week before that. She was in Excel training last weeK.

From: Crumlish, Fred Sent: Sunday, May 06, 2012 05:03 PM To: Hohl, James; Kamath, Jairam Subject: Re: CIO Synthetic Position

Just got back from chile and saw this. Also didn't see any emails or weekly summary comments since I went on leave...

BANK PROPRIETARY AND/OR TRADE SECRET INFORMATION

OCC 202-439-3938

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From: Waterhouse, Scott Sent: Friday, May 04, 2012 12:03 PM To: Crumlish, Fred; Hohl, James Subject: CIO Synthetic Position

Doug Braunstein and John Hogan called to provide an update on the CIO position. They mentioned that if we have been watching the position reports and P&Ls, we would have seen that they have been taking some significant MTM losses over the past few weeks. These losses are on positions established some time ago. Current losses are approximately \$1.6 billion. Doug said that over time, the bank has taken 'a couple billion' in gain as an offset to this position.

But at this point, the remaining position is too large and the bank is trying to reduce risk. John said that the long position is sensitive to a 10% widening in the amount of \$900MM. This is hedged with a short position in high yields that has a 10% sensitivity of \$650MM, giving a net risk to credit spread widening of \$250MM. The bank is taking actions now to further reduce the exposure.

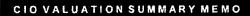
Doug said that the CIO will also close out some bond positions to take approximately \$1 B in gains to offset this loss.

John said that Ashley Bacon, in his new role as global overseer of market risk, is introducing new risk measures and limits for the CIO.

The bank will publish its Q on Thursday, and Doug expects that they will make some comment in the

Doug wants to have a meeting on Wednesday to discuss the history of the position, its performance, and 'glide path' to further reduce the risk. He expects that the position will be down substantially by the time we get together. This meeting will be with the Fed. Fred — you and James should be prepared to attend. Let's talk Monday about this.

Scott



March 2012 Month-End Results

April 13, 2012

2178

JPMORGAN CHASE & CO.

BANK PROPRIETARY AND/OR TRADE SECRET INFORMATION

OCC-SP1-00021381

## **Contents**

- North America Valuation Results
- EMEA Valuation Results
- Asia Valuation Results

JPMorgan Chase & Co.

#### Credit Indices and Tranches

Based on independent sourced prices and tolerances agreed with the CIO Front office an adjustment of \$(16.9)mm was required. For March month end the level of the Liquidity Reserve, which represents the illiquidity of off-the run positions, was \$(186.4)mm.

The credit derivative market has been extremely volatile this month. Initially all sectors of the market tightened on an improved economic climate and a more stable peripheral European picture. However, as Central banks moved away from asset purchase programs and doubts resurfaced about the Spanish economy markets weakened led by the financial sector. We have also seen an out performance by the High Yield indices versus the Investment grade and of the current on-the-run series versus the off-the-runs.

CIO's reserve policy is to include any series more than 4 removed from the current on the run series. Prior to March month end both index and tranche positions of Series 9 of both the ITRAXX and CDX IG were both omitted from the calculation despite qualifying under this criteria as both series were still considered to be liquid. At March month end it was concluded that a reduction in liquidity in the tranches of these series warranted inclusion in the liquidity reserve calculation.

The majority of our ABS positions (Market Value were priced at fair value and required no adjustment. However, an error in the

# weighted average life of our fixed rate covered bond positions resulted in an adjustment, affecting 14 ISIN's, of \$4,557,459 (Details in table below)

Redacted by the Permanent Subcommittee on Investigation

JPMORGAN CHASE & CO.

From: To: CC: Sent: Batista, Geralynn <Hohl, James> <Crumtish, Fred> 4/19/2012 7:39:14 PM RE: CIO portfolio

Thanks!

From: Hohl, James Sent: Thursday, April 19, 2012 3:37 PM To: Batista, Geralynn Cc: Crumiish, Fred Subject: CIO portfolio

As part of its ongoing process to incorporate additional exposures into the FSI framework, the AFS portfolio has been added to the CIO Aggregate stress test. The CIO AFS portfolio consists of \$335 million high-quality investment securities with MBS remaining the dominant type while CIOs, corporate bonds, and foreign government issues are significant also. The inclusion of the AFS portfolio results in a dramatic rise in stress losses (see chart 1 below) that is not comparable to prior periods. To adjust for this change, the CIO Aggregate loss estimate is subtracted from the series and shown on the "Adjusted" chart (see chart 2 below). 100% of CIO Aggregate losses are assumed to come from the AFS portfolio for simplicity (note that prior week's CIO Aggregate loss contribution to Aggregate Bad Case losses was immaterial).

The above comments reflect the portfolio at year end. We haven't gotten a CIO EMR since then; the January Treasury one didn't include CIO. I'm following up with John Wilmot about the balance sheet and investment portfolio pages that were in the CIO EMR.

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From: Kamath, Jairam Crumiish, Fred; Kirk, Mike; Waterhouse, Scott Hohi, James; Wong, Elwyn 5/18/2012 2:38:02 PM To: CC: Sent: Subject: Re: CIO Reports I picked up the CIO continuous audit report from the IA intranet yesterday. I'll forward it separately. ---- Original Message ---From: Crumlish, Fred
Sent: Friday, May 18, 2012 10:30 AM
To: Kirk, Mike; Waterhouse, Scott
Cc: Hohl, James; Wong, Elwyn; Kamath, Jairam
Subject: CIO Reports Scott - I went into wisdm doc 720660 and BOLDED those items that most directly touch CIO.
Sorry, wisdm desktop wont let me download. Sheet is called "reports received.xlsx" and while
it is in the IB folder it covers everything. Also, CIO positions wind up in our liquidity
reports as well, particularly those pertaining to stress test, cfp, etc. I haven't bolded
those. We had been getting cio emrs but there has been a lag we had asked about. This spreadsheet doesn't include corporate wide items such as: Continuous Audit Summaries (quarterly) Audit reports The CSA and audit info are probably more important. Risk Working Group packages DRPC presentations, as relevant. Also FASTDATA for investment is provided to the credit examiners. Of course, there will be a number of new adds. Most obviously the daily info from Hogan meeting  $% \left( 1\right) =\left\{ 1\right\} =\left\{$ I have cc'd Jairam as he has a lot of detailed knowledge on the reporting infrastructure and process for FSI, Var, and overall market risk including market risk capital. From: Kirk, Mike
Sent: Friday, May 18, 2012 8:48 AM
To: Waterhouse, Scott; Crumlish, Fred
Cc: Hohl, James; Wong, Elwyn
Subject: RE: Info needed today You may want to have Fred scrub this for what he knows about it. James is not in today, and this is his LOB so he would know the details I am missing. Fred may too. Regards, Mike CIO MIS Frequency Arrival Date
Firm Stress Results Weekly Mid week, week following
MaRRS Stress Reports Weekly Mid week, week following
CIO APS Securities List Quarterly
CIO Info in Treasury Weekly Appendix Weekly
CIO Monthly Valuation Deck Monthly
Firmwide Risk Daily Market Risk Limits and VaR Reports Daily T+2 *
Firmwide Model Risk Report Monthly

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Levei 1 EMR Monthly 3rd week of following month
Leve 2 EMR Monthly 3rd week of following month
Daily PEL Daily Estimate on Tr. revised on Tr. **

* Produced T+1, released T+2; we get when firm distribution occurs

** Not sure what we were getting precrisis

CIO Limits Frequency Unit Limit

All of CIO

Aggregate VaR (MTM, Cost, etc.)
CIO D T

CIO North America D T

CIO International D T

COMbined CIO & MSR (e) (f) D T

Mark To Market VaR
CIO D T 160,000
CIO International D T 160,000

Stress Loss Advisories
Max Stress Loss - Corporate Scenarios
Aggregate D T

MTM M T

Non Statistical Limits
EMEA

Credit Spread BPV D T

Credit Spread 10% CSW D T

STOP LOSS ADVISORIES
Aggregate
One Day D T 150,000
Twenty Day D T 150,000

MTM
One Day D T 60,000
Twenty Day D T 60,000
Twenty Day D T 60,000
Twenty Day D T 60,000
Twenty Day D T 60,000
Twenty Day D T 60,000
Twenty Day D T 60,000
Twenty Day D T

Five Day D T

Tive Day D T

Tiventy Day D T

Tiventy Day D T

Tenety Day D T

BANK PROPRIETARY AND/OR TRADE SECRET INFORMATION

STOP LOSS ADVISORIES INTERNATIONAL Aggregate/MTM One Day D T Five Day D T Twenty Day D T

One Day D T Five Day D T Twenty Day D T

MTM One Day D T 70,000 Five Day D T 70,000

Twenty Day D T 70,000

From: Waterhouse, Scott Sent: Friday, May 18, 2012 7:43 AM To: Crumlish, Fred; Hohl, James; Wong, Elwyn; Kirk, Mike Subject: Info needed today

We need to prepare two table for the comptroller today.

Table 1 - a list of all MIS we get and when we get it (emr. daily P4L) Table 2 - a list of all applicable limits

We should get examples of each. I need this ASAP.

BANK PROPRIETARY AND/OR TRADE SECRET INFORMATION

From: To:

Kirk, Mike

Karna, Montos, Chong, Emyro; Sanks, George>; Crumiish, Fred>; Hohl, James>; Kamath, Jairam>; Monroe, Christopher>; Tomese, Doug>; Swank, Todd> 5/18/2012 12:34:27 PM

Sent:

Subject:

RE: CIO Valuation Summary Memo - March 2012 Month End Results REVISED

They were that s the point that the bank missed same reserving process should apply.

From: Fursa, Thomas
Sent: Friday, May 18, 2012 7:53 AM
To: Kirk, Mike; Wong, Elwyn; Banks, George; Crumlish, Fred; Hohl, James; Kamath, Jairam; Monroe, Christopher; Tomese, Doug; Swank, Todd
Subject: Re: CIO Valuation Summary Memo - March 2012 Month End Results REVISED

The CDX were marked AFS too? I would imagine these are MTM under FAS 157?

From: Kirk, Mike

From: Nnr, Misse. Sent: Friday, May 18, 2012 07:28 AM To: Wong, Elwyn, Banks, George; Crumlish, Fred; Fursa, Thomas; Hohl, James; Kamath, Jairam; Monroe, Christopher; Tomese, Doug; Swank, Todd Subject: RE: CIO Valuation Summary Memo - March 2012 Month End Results REVISED

They told us about this in the meeting in Mid April.

When we questioned the lack of reserves the bank missed the point, arguing that it was an AFS book and that type of nethodology didn@t make sense@

From: Wong, Elwyn
Sent: Thursday, May 17, 2012 8:45 PM
To: Banks, George; Crumlish, Fred; Pursa, Thomas; Hohl, James; Kamath, Jairam; Kirk, Mike; Monroe, Christopher; Tomese, Doug; Swank, Todd
Subject: Re: CIO Valuation Summary Memo - March 2012 Month End Results REVISED

I read the unrevised one. What does that mean I wonder. With the stroke of a pen they added 186 - 31 equal 155 mil? And that's all they have for cds right?

From: Banks, George
Sent: Thursday, May 17, 2012 02:29 PM
To: Crumlish, Fred; Fursa, Thomas; Hohl, James; Kamath, Jairam; Kirk, Mike; Monroe, Christopher; Wong, Elwyn; Tomese, Doug; Swank, Todd
Subject: CIO Valuation Summary Memo - March 2012 Month End Results REVISED

Just received a revised CIO March 2012 Valuation Summary (see attached and also uploaded into WISDM). Appears that they are revising 1Q12 results?

Changes from the previous version highlighted in yellow below:

<<March 2012 Valuation Summary_v2.ppt>> <<R-764165-March_2012_Valuation_Summary_v2.DRF>>

Credit Indices and Tranches (page 5)

Original Text

BANK PROPRIETARY AND/OR TRADE SECRET INFORMATION

Based on independent sourced prices and tolerances agreed with the CIO Front office an adjustment of \$(16.9)mm was required. For March month end the level of the Liquidity Reserve, which represents the illiquidity of off-the run positions, was \$(31.1)mm.

The credit derivative market has been extremely volatile this month. Initially all sectors of the market tightened on an improved economic climate and a more stable peripheral European picture. However, as Central banks moved away from asset purchase programs and doubts resurfaced about the Spanish economy markets weakened led by the financial sector. High Yield indices have outperformed the Investment grade indices while current on-the-run series outperformed the off-the-runs.

CIO s reserve policy is to include any series more than 4 removed from the current on the run series. Prior to March month end both index and tranche positions of Series 9 of both the ITRAXX and CDX IG were both omitted from the calculation despite qualifying under this criteria as both series were still considered to be liquid. At March month end it was concluded that a reduction in liquidity in the tranches of these series warranted inclusion in the liquidity reserve calculation

#### Revised Text

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#### George Banks, Jr.

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From: To: Sent: Subject: Attachments:

Kirk, Mike <Hohl, James> 5/9/2012 7:20:08 PM RE: Document1 CIO Kirk Edits.docx

James,

Here are my edits. I have no attachment to them whatsoever so feel free to accept or reject as you please.

Regards,

Mike

<<...>>

From: Hohl, James Sent: Wednesday, May 09, 2012 2:28 PM To: Kirk, Mike Subject: Document1

Mike, Here's my first take. Stay off that leg. JCH

<< File: Doc1.docx >>

Regulators met with JPMC senior managers to discuss the CIO synthetic credit (index credit derivatives) portfolio.

- JPMC's 10-Q tomorrow will disclose synthetic credit losses and the possibility of more significant losses to come. Losses since 3/31 are about \$1.9B, which are not part of 1Q
- The synthetic credit portfolio is being wound down under the control of Risk Management, although this will be a lengthy process.
- JPMC managers have taken actions to improve risk management (i.e. implemented new limit structure to include notional limites) and to prevent a recurrence, and reviews continue to assess the situation and enhance controls.

JPMC CFO Doug Braunstein called a meeting with OCC and Federal Reserve examiners to go over synthetic credit portfolio market losses that will be disclosed in the 1Q2012 10-Q tomorrow and are much larger 2Q to date than they were in 1Q. The synthetic credit portfolio risk-weighted asset grew about \$30B in 1Q and another \$20B in 2Q so far.

The synthetic credit portfolio held by CIO has \$1.9B MTM losses in 2Q2012 to date. The CIO has monetized near \$1B of gains from the AFS book that are booked thru the coroporation under securities gains. The notional position of the AFS and firm wide credit synthetic hedge grew significantly during 1Q2012 in a failed attempt to reduce credit risk hedging by repositioning the portfolio. The net result is a large complex position that didn't act as modeled with unexpected correlations and increased volatility that will take time to run down.

The traders wanted to reduce exposure to HY short position they had but market liquidity and perceptions (due to AMR and Kodak BK's plus LTRO) were such that many participants had same view and sufficient liquidity was not available to reduce the short. So traders modeled other indices based upon historical correlations and determined the best course of action was to buy IG indices. Ina Drew noted that the old HY synthetic hedge moved in line with the AFS portfolio prior to these changes being made. John Hogan noted that the firm underestimated the risks and that they would exit the strategy and never reenter it.

The driving issue, according to Doug Braunstein, is the size of the position. Because of the size, any dislocation is magnified, and the ability to exit is hampered.

The CIO global credit 10% credit spread widening (CSW) limit was breached on March 22, 2012. At that time CIO Ina Drew suspended active trading in the instruments and began looking more closely at the drivers of the ongoing limit exception. At first it was thought by the CIO traders that the excess was due to market dislocations that would mean revert, however, by the last week of April it was apparent—after further analysis by others within JPMC, that there were fundamental problems with the portfolio. Further increases to this portfolio, as seen in the reports, were not from new trades, but rather from the convexity of the positions, many of which

behave like near or at the money options. Further widening of spreads will exaggerate this problem; conversely, spread narrowing will assist them in derisking.

At this time, Risk Management has control of the synthetic credit portfolio, which will be wound down. While the portfolio does have symmetrical risks, IPMC managers are actively reducing the exposure instead of sitting on it to see if the market will turn around. Ashley Bacon is leading the efforts to actively reduce the 10% CSW exposure by July 4th. Currently, managers are meeting twice daily seven days a week to update and control this process. Two other aspects to winding down the portfolio are managing the risks after significant short positions mature in late December and managing the remaining longer-term positions. Ultimate resolution of the portfolio will take a long time, and there is a possibility of billions more in losses. The glide path of derisking entails three prongs. First, the derisking of delta (10% CSW); second, deciding what to do with HY shorts expiring in Dec; third, more long dated issues related to illiquid risks that they can't do much about. May be more liquidity reserves as a result.

Risk management has assembled six risk categories for the synthetic portfolio and is stressing each of them. There is a risk that the portfolio could lose \$2B from here, but these numbers are evolving as risk management better understands the position and as risks are unwound.

Marks of the previous positions were within tolerances. Reserves were taken according to olicies in place in January. These reserves were for liquidity, and totaled \$30MM. The bank has since added \$150MM to those reserves.

IPMC managers seem likely to "take a breather" in their market efforts after tomorrow's 10-Q filing announces the situation to give the markets time to adjust to the news and any effects to settle down.

A review of the situation is ongoing. To date identified issues include the following. There was poor construction and execution of the hedge reduction strategy, which added to the complexity and size of the position. There was over reliance on historical market relationships, which resulted in excessive price movements when implied correlations increased. There was miscalculation of market and valuation dynamics. There were insufficiently granular limits for the synthetic credit book, particularly a lack of notional limits. It took too long to fully understand the portfolio risks and escalate problems. Finally, the current market environment for these instruments has magnified mistakes.

In addition to Risk Management's active efforts to reduce the portfolio's risk positions and ultimately wind it down as previously described, JPMC has begun taking actions to prevent a similar situation. More granular limits have been put into place. The valuation, control, compliance, and reporting framework have been tightened, and is undergoing further review to strengthen firmwide. An internal audit to assess risk management processes and financial reporting for CIO mark-to-market books is underway.

JPMC attendees Chief Financial Officer Doug Braunstein General Counsel Stephen Cutler

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Chief Investment Officer Ina Drew Chief Risk Officer John Hogan EVP Corporate & Regulatory AffairsBarry Zubrow (telephone)

OCC attendees Scott Waterhouse, Fred Crumlish, James Hohl, Mike Kirk (telephone)

Fed attendees Dianne Dobbeck, Anna, the other guy

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The driving issue, according to Doug Braunstein, is the size of the position. Because of the size, any dislocation is magnified, and the ability to exit is hampered.

The CIO global credit 10% credit spread widening (CSW) limit was breached on March 22, 2012. At that time CIO Ina Drew suspended active trading in the instruments and began looking more closely at the drivers of the ongoing limit exception. At first it was thought by the CIO traders that the excess was due to market dislocations that would mean revert; bowever, by the last week of April it was apparent—after further analysis by others within IPMC, that there were fundamental problems with the portfolio. Further increases to this portfolio, as seen in the reports, were not from new trades, but rather from the convexity of the positions, many of which

behave like near or at the money options. Further widening of spreads will exaggerate this problem; conversely, spread narrowing will assist them in derisking.

At this time, Risk Management has control of the synthetic credit portfolio, which will be wound down. While the portfolio does have symmetrical risks, PMC managers are actively reducing the exposure instead of sitting on it to see if the market will turn around. Ashley Bacon is leading the efforts to actively reduce the 10% CSW exposure by July 4th. Currently, managers are meeting twice daily seven days a week to update and control this process. Two other aspects to winding down the portfolio are managing the risks after significant short positions mature in late December and managing the remaining longer-term positions. Ultimate resolution of the portfolio will take a long time, and there is a possibility of billions more in losses. The glide path of derisking entails three prongs. First, the derisking of delta (10% CSW); second, deciding what to do with HY shorts expiring in Dec; third, more long dated issues related to illiquid risks that they can't do much about. May be more liquidity reserves as a result.

Risk management has assembled six risk categories for the synthetic portfolio and is stressing each of them. There is a risk that the portfolio could lose \$2B from here, but these numbers are evolving as risk management better understands the position and as risks are unwound.

Marks of the previous positions were within tolerances. Reserves were taken according to olicies in place in January. These reserves were for liquidity, and totaled S30MM. The bank has since added \$150MM to those reserves.

IPMC managers seem likely to "take a hreather" in their market efforts after tomorrow's 10-Q filing announces the situation to give the markets time to adjust to the news and any effects to extend down.

A review of the situation is ongoing. To date identified issues include the following. There was poor construction and execution of the hedge reduction strategy, which added to the complexity and size of the position. There was over reliance on historical market relationships, which resulted in excessive price movements when implied correlations increased. There was miscalculation of market and valuation dynamics. There were insufficiently granular limits for the synthetic credit hook, particularly a lack of notional limits. It took too long to fully understand the portfolio risks and escalate problems. Finally, the current market environment for these instruments has magnified mistakes.

In addition to Risk Management's active efforts to reduce the portfolio's risk positions and ultimately wind it down as previously described, JPMC has begun taking actions to prevent a similar situation. More granular limits have been put into place. The valuation, control, compliance, and reporting framework hasve been tightened, and is undergoing further review to strengthen firmwide. An internal audit to assess risk management processes and financial reporting for CIO mark-to-market books is underway.

JPMC attendees Chief Financial Officer Doug Braunstein General Counsel Stephen Cutler

Chief Investment Officer Ina Drew Chief Risk Officer John Hogan EVP Corporate & Regulatory AffairsBarry Zubrow (telephone)

OCC attendees Scott Waterhouse, Fred Crumlish, James Hohl, Mike Kirk (telephone)

Fed attendees Dianne Dobbeck, Anna , the other guy

BANK PROPRIETARY AND/OR TRADE SECRET INFORMATION

From: Weich, Robert Crumlish, Fred>;<Berg, Jaymin><Swank, Todd>;<Alkins, Glenn>2/9/2012 2:32:29 PM To: CC: Sent:

Subject: RE: Investment Portfolio AQ Comment for the CA

Sounds great. I'll edit and insert the comment into the AQ section.

Thanks to all.

Let's call investment portfolio quality strong in the credit ras.

CiO is the business unit, w/ all JPM, JPMCB is what is booked in the bank. CiO also has some private equity and other non-bank eligible things. Jay win or James Hohl can clarify last years number, but I wouldn't worry about including it in the RAS. Agree we can say it's less than 1%

- apc

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= Redacted by the Permanent Subcommittee on Investigations

Ok, here are the quarterly classified security figures from FD starting left to right w/ 4Q10- 4Q11.

Other Assets - Securities ('B' or worse, or 'NR')
Other Assets - Securities ('D')

Say \$2.7B of the "portfolio" is below IG = <1%.

Just a point of clarification for me, Last year's comment referenced a \$312B CIO portfolio and also referenced the JPMCB portfolio of \$307B - (now \$354B). I don't know what the difference is,

The below IG figure last year was relative to the CIO portfolio (but) not the JPMCB. (?)

Glens, I can do the cut and paste. Let me know.

Thanks Jaymin/Fred, To: Berg, Jaymin Cc: Swank, Todd: Welch, Robert

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Subject: RE: Investment Portfolio AQ Comment for the CA

Thanks Jaymin. Can we say credit quality is "strong"

Bob - If you have the latest fast data, we can put in the percentage classified / criticized,

- ap

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-----Original Message----From Berg, Jaymin
Sert: Wednesday, February 08, 2012 5:43 PM
To: Crunlish, Fred
Co: Swank, Todd
Subject: RE: Investment Portfolio AQ Comment for the CA

Here's a paragraph, let me know if you have questions/comments.

The credit quality of the investment portfolio is satisfactory. The investment portfolio grew by 15% to \$354 billion year over year. The portfolio is comprised of 36 percent US government and agency securities, while the remainder is primarily in non-agency MBS/CMBS and foreign debt securities. The representation of US Agency and Treasury securities has decreased from 45% in the prior year due to the CiO's focus on purchasing non-government/agency debt. Low interest rates and prepayment risk lave led them to opportunistically look to other asset classes for investment purchases during the year. The portfolio performance during 2011 was good and does not indicate any meterial recredit issues in the investment portfolio. At year end the investment portfolio has \$5.5 billion in positive other comprehensive income. During 2011, the portfolio took \$76 million in other than temporary impairment (OTTI) write downs, which is the equivalent to .02% of the portfolio.

From Crumlish, Fred
Sent: Wednesday, February 08, 2012 1:34 PM
To: Berg, Jayman
C: Swank, Todd
Subject: RE: Investment Portfolio AQ Comment for the CA

Well, I just searched last year's core, and there was nothing there - so perhaps we were edited out as a rounding error last year. I copied Todd in case I missed it.

Getting this to me before you leave London would be "ahead" of my heightened expectations....

- apc

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From: Berg, Jaymin Sent: Wednesday, February 08, 2012 1:22 PM To: Crumlish, Fred Subject: Re: Investment Portfolio AQ Comment for the CA

Will try and work on it before I leave london so probably tonight or tomorrow night?

Do you have last year's aq section by any chance that you could send?

From Cruatish, Fred Sent: Wednesday, February 08, 2012 01:19 PM To: Berg, Jaymin

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Subject: RE: Investment Portfolio AQ Comment for the CA

You really don't want the answer. I am going to fall on the sword so let me know when you think you can do this by.

- 20

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From Berg, Jaymin Sert: Wednesday, February 08, 2012 12:52 PM To: Crumlish, Fred C: Hohl, James Subject: Re: Investment Portfolio AQ Comment for the CA

When do you need this?

From: Crumlish, Fred Sen: Wednesday, February 08, 2012 12:51 PM To: Berg, Jaymin Cc: Hold, James Subject: FW: Investment Portfolio AQ Comment for the CA

I always forget about this. We need a short blurb.

- unc

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From: Welch, Robert Sent: Wednesday, February 08, 2012 10:44 AM To: Crumlish, Fred Subject: Investment Portfolio AQ Comment for the CA

Hi Fred, was James or someone else on your team going to be able to draft a short blurb on linv. Port, quality for the AQ section of the Core Assessment this year?

Thanks, Bob

From:

To: CC:

Wong, Elwyn Waterhouse, Scott; Kirk, Mike; Crumlish, Fred Hohl, James 5/16/2012 8:24:13 PM

Sent:

Attachments:

CS01 1-DiBimage.bmp

#### Hi Scott

Given how little the Bank has provided us with concrete metrics, my current understanding is the \$50 mil Venkat mentioned going to \$38 mil yesterday and \$34 mil today is the "un-beta adjusted" number -- the equivalent of the -\$46.13 number then (this is from the Powerpoint they provided to you)

If true, it is very meaningful. The Achilles heel (no pun intended) was their old analysis showed short HY (+8.51 CS01)) when mapped to IG can have a short equivalent of +42.55 CS01, making them, when beta adjusted, not that long credit risk. As a matter of fact, they were almost "square" at -\$4.31

But then again it could be an overshoot the other way, if indeed HY reverts back to some of their old relation to IG -their problem is a huge basis problem.

Elwyn

From: Waterhouse, Scott Sent: Wednesday, May 16, 2012 4:09 PM To: Wong, Elwyn; Kirk, Mike; Crumlish, Fred

Subject: RE: Raw minutes from 5/16 CIO call

A couple of adds on the names. Question to all of you with knowledge, when Venkat said that CS was down from \$50 to \$34, how meaningful is that? I.e., how much smoothing (basis, tenor, etc.) goes into that number, if any?

From: Wong, Elwyn Sent: Wednesday, May 16, 2012 2:59 PM To: Kirk, Mike; Waterhouse, Scott; Crumlish, Fred C: Hohl, James Subject: RE: Raw minutes from 5/16 CIO call

From: Kirk, Mike From: Kirk, Mike Sent: Wednesday, May 16, 2012 2:43 PM To: Waterhouse, Scott; Crumlish, Fred Cc: Hohl, James; Wong, Elwyn Subject: Raw minutes from 5/16 CIO call

First half of meeting only. Not present for second meeting.

James and Elwyn, if you can correct any errors that may have made it would be greatly appreciated.

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Regards, Mike

## Daily CIO update

Bank: Matt Zarnes, John Hogan, Ashley Bacon, Chetan Bhargiri, Marie Nourie, Greg Gunselman?, Diane Genova, Venkat (Venkatakrishnan)
OCC: Scott Waterhouse, Fred Crumlish, James Hohl, Elwyn Wong, Mike Kirk
FRBNY: Diane Dobbeck, Marie Davis, Mike ?,
FDIC: Om Arya, John Granis

**P&L data:** Still working on report with information that has been requested. Should be shortly. Can provide report with P&L numbers starting tomorrow. P&L and Risk combo with explain will come shortly.

- · Will deliver daily P&L from Jan 1 will be delivered by week end.
- P&L on T+1 with explains are possible. T is more challenging, b/c NY closes at 7PM. Trader estimates and verbal P&L can be given daily.
- Monday loss \$328.5MM, Tues loss of \$76.4MM

FSA: Jim ?-and other representatives unknown.

- Today's P&L and Market color:
- P&L today ups \$45MM. IG 9 out-performed against on the run (otr) and theoretical basket by about 1bp which explains all P&L. Reassuring b/c IG 9 has been underperforming.
- HY and IG did very little, tranche very insignificant.
- Credit indices closed wider by 2 in Europe and 1.5bps in US.
- AM bot \$5B of 5 year (otr) Itraxx protection (the main index). PM bot some HY risk in US.

CS01 is now from a peak of \$50 mil to \$34mil (so yesterday's note should read \$38 mil instead of \$28 mil)

- CS01 measure started at \$50MM with today's trades down to \$34MM.
- IG 9 10 year vs. theoretical basket is 7bps rich to basket (-7b to basket).

Collateral: As of Tues, still at \$152MM. Across all counterparties except Deutsche Bank (DB) have dropped significantly, but DB has some issues with new trades with ITraxx 17. If DB is wrong number comes down significantly. Morgan Stanley (MS) collateral differences is now only \$7MM.

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- Valuations to Markit and marks are fairly tight swinging around \$25MM.
- Spreads used for tranches the results are reasonable to IB Marks.
- Collateral is paid/Rec in cash (Euro/USD), all counter parties (cp's) have option to exchange Treasunes but mostly done in cash so far Table will be provided with CSA options for each CP.
- No new information on ICE collateral questions.

#### Updates on follow ups:

- P&L items. Committed to report snapshot for T+1 tomorrow, including FSA. Plus oral statement of T p&L.
- P&L back to Jan 1, due Friday of this week
- P&L Explain + risk metrics report will be end of week this week, at latest. Risk metrics bank uses to manage the book. Bank has this information in variety of forms and Matt and his team wants to clean up and give to FRBNY. Bank will give what they have today to manage the book to the regulators today.
- Basel update will walk regulators to all components of market risk by end of this week
- CCAR FRBNY has received projections of income. Matt and team are working on risk glide path. Matt wants to look at worst day all the way thru crisis, at numerous confidence intervals, and the glide path will be based upon this. Matt will walk FRBNY thru this by Fnday.
- Provide CCAR risk factors by Friday of this week.
- CIO AFS portfolio liquid asset buffer by asset class.
- Chetan will send what he has now, can send complete list tomorrow.
- Loss to exit portfolio: Matt not comfortable with that number until knows what aggregate stress was to the worst day. Can't answer cost to get out today until sees stress numbers.
- Legal entity P&L explain: Whitefriars, Impacts upon capital on LE, Will give to us tomorrow. Will depend somewhat upon capital stress work in progress.
- Limit review: Will be tomorrow.

### Risk Reduction Glide path:

- Immediate objection is to remove directionality. Buying back risk for OTR IG index. Long way from achieving, making some progress on 10% CSW (about 40MM so far from \$209mil yesterday(?).
- Think 10% CSW number is fairly accurate. Certain that they need to be selling some every day to reduce risks every day. As Delta is removed will need to get more exact, but a while off from that.

John Hogan committed to giving the regulators what the bank has today to us today, with appropriate caveats until mgt can scrub it.

Bank has collected a list of all dealers and hedge funds that have come back to JPM with axes; some match JPMC's book some don't. Levels are away from mid market. The original risk it is possible that the other side is out there; so more optimistic, but have not consummated a deal.

Mike Kirk Capital Markets Examiner Large Bank Supervision Phone: 212 899-1383 Fax: 301 433-9209

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From: Hohl, James

Crumlish, Fred; Wong, Etwyn; Kirk, Mike; Waterhouse, Scott 5/14/2012 7:46:05 PM To: Sent:

Subject: RE: May 14 minutes

Bank: Mike Cavanagh, John Hogan, Ashley Bacon, Chetan Bhargiri, Matt Zames, Diane Genova OCC: Scott Waterhouse Fred Crumlish, James Hohl, Elwyn Wong, Mike Kirk

- * While JPMC has made and continues to make significant changes to CIO managers and is using firmwide resources to address issues in synthetic credit portfolio, the MTM losses continue with a \$330MM loss today.

  * New Chief Investment Officer Zames is reviewing all CIO investments to assess future actions. Ashley Bacon is leading efforts
- to reduce risks from credit derivatives.
- * Mike Cavanaugh is leading a review of what happened to strengthen controls.
  * Bankers are addressing regulators questions and will provide updates daily at 2 p.m.

P&L today -330MM; directional 70mm; compression high yield vs high grade -120; series 9 -\$100 similar to Friday. Part of loss from weakening after Friday's London close to NY Close.

All trades booked with JPMC Bank London Branch facing 3rd parties, then back-to-back with Whitefrians which is a sub of a hold co of Reg-K subs to manage risk; the hold co in turn owned by JPMC Bank. Has to do so because Bank couldn't hold HY

OCC would like a document for each day for P&L and P&L explain dashboard and material position changes.

New trades: Sold CDX OTR that reduced 10CSW risk by \$25MM, still working on this. Risk reduction glide path is unchanged today. Key focus is on risk directionality at the moment. Once this gets in line will focus on trying to find other side of the trades. Some information that the client franchise can help find the other side (end user). Market making businesses and market liquidity do not have enough capacity to get JPMC out of the trades, will need assistance from other side of the trades. Not sure what market levels will have to be for market driven appetite of the other sides of these trades to appear.

Wide B/O Friday, less today with little trading. Market is testing to see what JPMC will do. Expect B/O to continue narrowing; however, markets remain likely to move against JPMC.

Looking at AFS book now to identify if there are any securities they "don't like" and may sell. Will know more next week.

Bank will provide an estimate of how AFS sales can cover the synthetic credit portfolio losses. Regulators want to know the effect of changes of the AFS portfolio on the liquidity buffer.

Think market should have reasons to unwind trades b/c JPMC losses are someone's gains so are "hopeful" that can be ability to unwind with counterparts.

Capital and RWA numbers will be provided in a few days once glide path of portfolio is determined. Bank is managing to B3. RWA on the portfolio is increasing at this time. Using market risk rule on the derivatives (bank will confirm). Bank will provide projections of these numbers.

FRBNY wants to know how the RWA is estimated as they understand models are being worked on. Ashley Bacon will follow up.

In process of identifying the amount of risk the bank is willing to hold. Trying to be prudent on how much they spend to unwind, Being cautious until dust settles before deciding how much to unwind because market is reacting to the new

IG9 and S9 market prices adjusting to news of JPM and reaction to what they or may not do. Tranche market not running away from them though.

Collateral disputes: Nothing dramatic today. As of COB Friday, \$89MM outstanding difference. Flat to prior day. Some improvement with MS. At one time widest collateral disputes were \$690MM, Morgan Stanley difference was once in excess of \$120MM. The largest difference was around mid April.

Improvement was driven by Bank changed their view of the value of the collateral. At the time of original valuation, the bank thought the book was valued correctly, but have changed their view and have agreed to counter party levels.

Part of valuation differences in USD products is due to timing of NY and LDN close. Current MarkIT valuations closed recently. Currently widened to \$50MM due to difference in timing between NY and London.

Synthetic credit book is booked in bank branch in London; risk is migrated to JPM Whitefriars. Whitefriars is a bank sub, under holding company sub created for all Reg K subs held under JPMCB NA.

P&L in bank is more likely to be flat, most P&L should be in Whitefriars but JPMC will confirm.

High grade is booked in same place for risk mgt purposes so book is all in one place.

Shrek is a deal booking tool.

Tomorrow bank will walk us thru the operational aspects of the trade for legal booking etc.

Operational aspects: 78% of ICE eligible trades are through ICE. Clearings sent weekly; will send tomorrow and expect back over 80% when done this week. \$73B are eligible, \$63B are ineligible (don't clear tranches and some of older indices).

Bank briefed FSA again today, description of timeline of events. FSA had similar qs that US regulators have.

One resignation in London MO, getting some help from NY to assist both MO and technology. Very much engaged with IB for knowledge and systems solutions.

CIO will have new CFO, very soon (Marie Nourie). Announcement will be later today. Ian Green (for expertise) is embedded with Ashley Bacon looking at CIO. Chetan Bhargiri named CRO for CIO reporting to Hogan.

Ashley Bacon will run risk in CIO day to day reporting to Zames, will make decisions on RIVA on day to day, gathering group of individuals to figure out what went wrong and how to do it better.

Bank will provide a CCAR analysis of the synthetic portfolio.

Don't expect other issues in the rest of CIO. This is largest mark to market portfolio in CIO. CLO book is all very high grade.

Don't expect other issues in the rest of ClO. This is largest mark to market portfolio in ClO. CLO book is all very high grade. Follow ups:

1. How much will it cost to get out today under reasonable assumptions (Bacon)?

2. AFS inventory today and history; and strategies for offsetting strategies (Bhargiri)?

3. How (2) affects liquidity buffer (Tony working for Chetan Bhargiri)

4. P&L Explain (Bacon) and recaps on position (new trades on day). On T basis (based on trader estimate, and will provide info

- on slippage on T+1
  5. Where P&L is booked?
  6. B3 RWA for Synthetic Book and confidence of estimate (Norrey and Bhargiri)
  7. Market Rule for B1.

- Notes and the course of the portfolio (Phil).

  8. Stress testing framework, how thinking of risks. Set of defined situations on how look at book. Close to CCAR scenario, and other bad and plausible scenarios (Hogan).

  9. Operational Aspects of the portfolio (Phil).

From: To: Sent: Crumlish, Fred Waterhouse, Scott 5/31/2012 9:45:06 PM

Subject:

No. He spoke of aspects directly impacting me but he may tell you more. Actually I had no surprises..

Said we could have been more aggressive on mra followup. I concurred, gave him my thought process.

Said we could explore "cutsize" gains more. (Amr gain) as it may have indicated something to raise suspicions.

Use comparable process for comp risks (us and bank) in my case I told I said I should have had mike or elwyn more involved.

Was pleased with var paper trail and confirm jairam got

Praised wisdm use

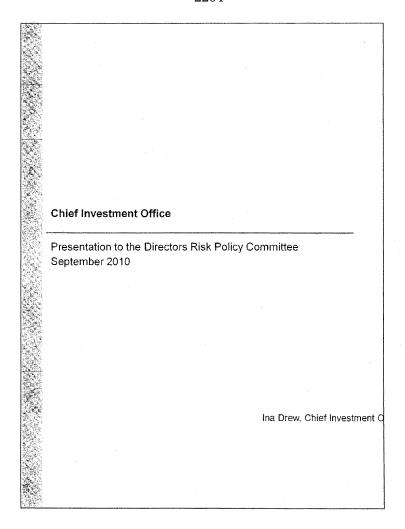
Said he couldn't tell if we could have caught this.I said time will tell as we seek more.

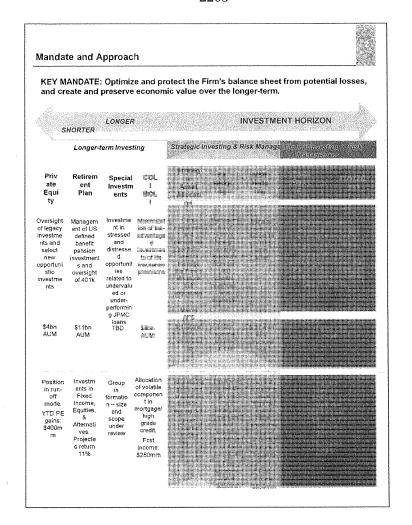
~ap

OCC 202-439-3938

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---- Original Message ----From: Waterhouse, Scott Sent: Thursday, May 31, 2012 05:36 FM To: Ctumlish, Fred Subject: QA

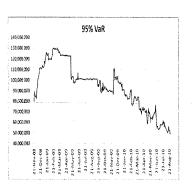




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#### **Tactical Positioning**

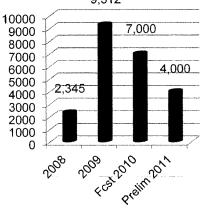
- CIO positions tactically to complement the core investment portfolio.
- One example is a synthetic (or derivative) credit position established in 2008 to protect the Firm from the anticipated impact of a deteriorating credit environment.
- As credit spreads widened, CIO adjusted the position to capture value as credit markets stabilized.
- These positions reached a maximum 95% VaR of \$130mm in early 2009, and have since been de-risked to a current VaR level of approximately \$50mm, with some further risk reduction anticipated.
- Tactical credit strategies have contributed approximately \$2.8bn in economic value from inception, with an average annualized RoE of 100%.



### Earnings

- CIO's expertise and product suite have been developed and expanded to produce absolute returns through all business cycles.
- Some volatility of earnings should be expected throughout cycles, particularly at extremes.
- Very low expense base of approximately \$300mm, coupled with high returns, produces overhead ratios that range from 3% - 10%.

# Total Revenues (in millions) 9,312





### Regulatory Reform

- CIO activities are not expected to be significantly impacted by Financial Regulatory Reform.
- CIO does not maintain "trading accounts" as defined by Volcker rule:
  - Intent is not to buy and sell to benefit from short-term price movements.
  - Activities are restricted to transactions that are clearly and transparently associated with the Firm's underlying structural risks, and all activities are documented as such.
- Private equity investing will be impacted:
  - Existing investments were planned to roll-off prior to effective date of the rules in any case.
  - New investments in Private Equity will most likely not be permitted in CIO
  - Retirement Plan investments in private equity and hedge funds are expected to be excluded from restrictions.
- Engaging in preliminary discussions with regulators, in coordination with Firm-wide regulatory reform working group.

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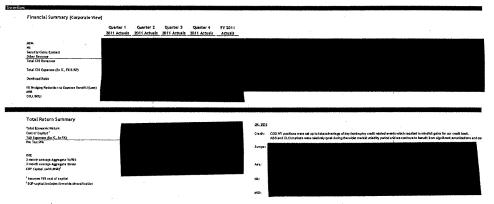
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CHIEF INVESTMENT OFFICE - EXECUTIVE MANAGEMENT REPORT

December 2011

---- Reducted by the Permanent Subcommittee on Investigations

### Chief Investment Office

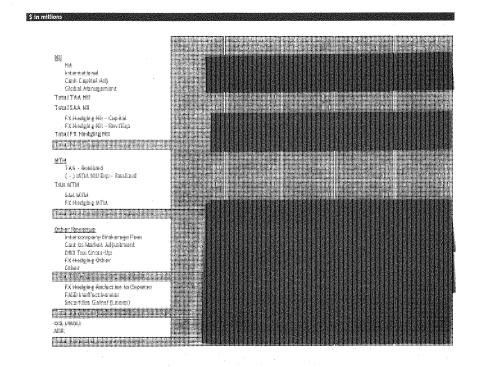


## Chief Investment Office Financial Supplement [Management View]*

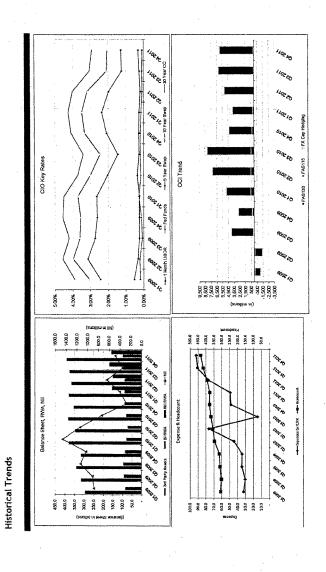
					Quarter 4	Coarter A	(B/(W)
	Quarter 4 2011 Actuals	Quarter 3 2011 Actuals	Quarter 2 2011 Actuals	Quarter 1 2011 Actuals	2010 Actuals	2011(Artuals	2010
Revenue				376	192		
Total MTM	330	(563)	130 838	90	1,207	100	
Security G/(L)	(14) (26)	448 (80)	(78)	(113)	(134)		107
Total Other Revenue* Non-Interest Revenue	289	(214)	891	355	1,265	504 9	
Total Hil	488	350	645	407	279	100	
Total Net Revenue	777	135	1,536	762	1,544	20042	
(Otal Set Nerville			.,				
Expenses						3.40000000000	
Compensation Expense (ex.10)	23	21	21	22	19		
Noncompensation Expense	7Q 92			<u>ZZ</u> 49	29		
Total Hon interest Expense (ex IC, ex FX, ex RP)	92	91	11	47	***	17	
Overhead Ratio ex IC	11.88%	66.94%	4.99%	6.47%	3.08%		
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MSR							
* Other Revenue Includes FX Hodging Reduction to Ex	perses perses						
ATA Revenue by Region					. 23		
KA MTM	19	(186)	62	40 69	13		
Europe	(20) 50	(44)	.(2) 18	31	33		
Asia		(36)	17	42	81		
Global Credit Core	356 5	59	47	120	26		
Global Credit Investments	0		***	1,00			
		A		303			
Other Tab MTM	409	(195)	142	503	179		
TAA MYM		(195)	142	303	179		
TAA MYM Accounting Related Adjustments:	409	(195)					
TAA MYM  Accounting Related Adjustments: (-) MYM NI/ Eq.	409	(195)	(40)	(72)	(54) 125		
TAA MYM  Accounting Related adjustments: (-) MYM NSI/ Exp MYM ex. MYM NUEXp	409	(195)			(54)		
TAA MYM  Accounting Related Adjustments: (-) MYM NI/ Eq.	409	(195)	(40)	(72)	(54)		
TAA MIT ACCOUNTING Related Adjustments: (-) MITAN HIST DO MITAN HIST DO MITAN HIST DO MITAN HIST DO MITAN HIST DO MITAN HIST DO MITAN HIST DO MITAN HIST DO MITAN HIST DO MITAN HIST DO MITAN HIST DO MITAN HIST DO MITAN HIST	409	(195)	(40)	(72)	(54)		
TAA MTM  Accounting Related Adjustments: (-) Minimili Exp. (-) Minimili Exp.  EX Heading MTM  Agency Preferred	409	(195)	(40)	(72)	(54)		
TAA MTM  Accounting Related Adjustments: () MTM HSI Exp  MTM e.r. MTA NUExp  FX Heading LETM  Againly Preferred  Bank Preferred	409	(195)	(40)	(72)	(54)		
TAA MIM  () ARCONING Related Adjustments: () ARTANISE Sp  ARTM ext. ARTM MINESp  (X Heeding ARTM  Agains) Preferred  Bank Preferred  Bank Freferred  SAA Sates	409	(195)	(40)	(72)	(54)		
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TAA MINM Accounting Related Adjustments: () ARTA MILE Sp MITM etc. ARTA MILESp  CX. Heeding ARTA Against Parformed Sank Preferred Sank Preferred Sank Referred Colosia Menagement Account EMPA CS Heeding EMPA CS Heeding EMPA CS Heeding EMPA CS Heeding EMPA CS Heeding EMPA CS HEEDING EMPA	409	(195)	(40)	(72)	(54)		
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TAA MINI ACCOUNTING Selekter Adjustments: () MINI MINI Exp () MINI MINI Exp () A HEAD MINI Exp () A HEAD MINI MINI Exp () A HEAD MINI MINI MINI MINI MINI MINI MINI MIN	409	(195)	(40)	(72)	(54)		
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TAA MINI  (2) ARTHRITIS GENERAL AGUISTISSEN ST.  (3) ARTHRITIS GENERAL AGUISTISSEN ST.  (4) ARTHRITISSEN ST.  (5) ARTHRITISSEN ST.  (6) ARTHRITISSEN ST.  (6) ARTHRITISSEN ST.  (6) ARTHRITISSEN ST.  (6) ARTHRITISSEN ST.  (6) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (7) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.  (8) ARTHRITISSEN ST.	409	(195)	(40)	(72)	(54)		
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# CIO Financial Income - December YTD Actuals [Management View]

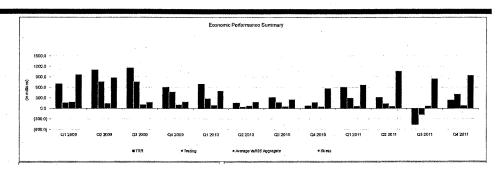
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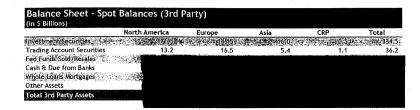
#### Historical Trends



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# CIO Balance Sheet - Regional View as of December 31st, 2011

---- Redacted by the Permanent Subcommittee on Investigations



	North America	Europe	Asia	CRP	Total
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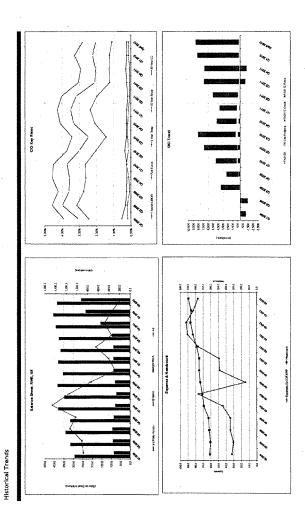
Investment/Securities         15.3         41.5         17.2         0.0           Trading Account Securities         7.1         52.7         3.9         7.6           Fedigunds/Sold/Resalles         7.1         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0	) 482 ) 70.
Trading Account Securities 7.1 52.7 3.9 7.6	70.
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Cash & Due from Banks	
Whole Loans-Mortgages	
Other Assets	

BANK PROPRIETARY AND/OR TRADE SECRET INFORMATION

April 2012

# CIO Balance Sheet/RWA Quarter 2 Forecast as of 5/09/2012

Fixed loading	Gross Yield	Net Yield'	Ave Spread	trivest Sbn	Current RWA %	Current RWA	Net Yield Reg Cep*	Ava Spread Reg Cap'	FAS 115 OCI İs mm
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BANK PROPRIETARY AND/OR TRADE SECRET INFORMATION

# 2012 CA QUARTERLY SUMMARY Global Chief Investment Office First Quarter CA summary

#### 1st Quarter LEVEL 1 Chief Investment Office Hatzopoulos, Alexander X AMT DIRECT McManus, Wilkem K LEVEL 2 C1O . STATUS Approved SUMMARY OF ACTIVITIES STAKEHOLDER MEETINGS

#### North America

CIO continues to manage portfolio positions with significant consideration of Basel III Capital requirements, resolution and recovery impacts, liquidity risk, as well as, enhancing and building out portfolio enalytics for the structural asset allocation process.

Liquidity Risk infrastructure: Treasury - led initiative to build comprehensive firm-wide liquidity risk infrastructure CIO engaged in reviewing business requirement and date sourcing definitions and 2012 planning

Implemented successfully in Q4 2012 for Equities in Pyramid and all Fixed Income Products.

GIC Compositive Bidding Process:
Firm - wide initiative to assess risk and related framework by product and region
Submitted formal assessment identifying business lines within the Bank that engage in compositive bidding transactions
Currently looking at consistency of controls across the firm

Volcker Rule:
CIO currently reviewing draft of rule recently released for comment period.
Technology design to tag trades in accordance with mapping documents completed. Final build-out pending final rule release.
Continued emphasis on conducting risk management activities that are clearly related to underlying firm wide structural risks.
Assessing MTM tredling activity (# of trades, total notional) relative to underlying structural risk.

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#### Redacted by the Permanent Subcommittee on Investigations

#### APPIA ABS/CLO Migration

In January 2012, the CIO's international credit portfolio of Asset Backed Securities (ABS) and Colleterelized Loan Obligations (CLO) were successfully migrated from IB owned applications (Concorde and ISIS) to the APPIA platform. Approximately 1,800 trades with \$19.19 bit original notional were migrated in lotal. In November and December 2011 an initial migration of 38 ABS and CLO positions was performed to assess readiness for the full migration in January and CIO Finance monitored the trades as part of BAU month-end and year-end processes. Audit parformed a detailed review of the various aspects of this migration and issued a Satisfactory audit report in March, with no reportable issues noted.

#### ASIA

Key NBIAs - Asia

Regulatory updates:



- Technology projects update:

  1. APPIA migration project pertains to two sets of products: (a) Swaps and F&O and (b) Fixed Income Securities and Repo.

   Swaps and F&O —All complete.

   If Sec and Repo Phase 1 and 2 Migrations had been completed.

   If Sec and Repo Phase 3 (Japan, Australia, New Zealand, Philippines, Korea and Indonesia) Migration completed for Phase 3 in Mar 2012. Indonesia to it out will be determined depending on regulatory approval.

  2. OPICS migration project OPICS is selected to be the target platform for money market products (front office to back office). The migration approach was confirmed. Revised migrating timeline is listed as below.

   Phase 1 Spat 2012 for Bangkok, Manila, Seoul, China & Vielnam

   Phase 2 Mar 2013 for Japan and Singapore

   Phase 3 May 2013 for India, Jakarta, HK, Malaysia, NZ, Taipel and Sydney.

  3. Attenum Ingration project Athena teem currently working on the replan for cash FX migration and target to communicate the orthoarding schedule in late April.

CIO Technology:

From a project perspective, the APPIA project (to migrate trades off of 18 systems on to a suite of CIO owned systems) is making good progress. No significant issues were raised by Audit in Q1. Some of the key accomplishments in Q1 include: EMEA ABS/CLO Phase2 Migration (1/24/2012); Core/APPIA Integration for TBA's & Specified Pools (3/2/2012); and Asia Securities Migration Phase

3 (3/16/2012). Key in-flight projects include North America Toronto Branch Swaps and Securities Migration (plan for May) and CORE (AFPIA Migration (Morking on on-boarding remaining securities in CORE onto APPIA). From a production support perspective, the Business Process Index (BPI), which is used to measure the availability of the CIO applications, remains stable at the 99% level. In February, EMEA Striek was down less than an hour due to DB log issue. In March DB outages occurred after a long-unning stored procedure filled the DB transaction logs. Stored procedure has been optimized, weekend purgle jobs restructured, and DB re-indexing jobs now scheduled to run earlier for longer duration. From a risk and control perspective, CORE, Striek, TEA, Primus and Poplar are in scope for SOX testing. CIO Technology is on target to meet the firm-wide targets of 35% by June 15th.

# METRICS AND MONITORING

#### North America:

Market Risk Limits and Total Return and Trading Metrics summaries are reviewed by audit in addition, weekly metrics for operations are monitored by audit. Weekly metrics consist of , P & L variances, cancel and amended trades, market limits and transaction volume. No significant issues noted in Q1. Operational KPIs and P&L are primarily monitored through the BCC process.

Chief Investment Office highlights Q1 2012:

#### SAA Portfolio

The book value of the Strategic Asset Allocation Portfolio decreased from \$221B 4Q2011 to \$159B for 1Q 2012.

Sales/Maturities of German/French/Canadian Government Securities Sales of ABS Credit Card Positions
Transfer of CLO's from EMEA to North America

#### MTM Overlay portfolio

(Note this portfolio is 99% trading, 1% Held for Investment)

MTM Overlay Portfolio, Market Value for 1Q 2012 with a balance of \$554M & 4Q 2011 with a balance of \$1,233B.

The main drive of the decrease in this portfolio quarter over quarter is:

- Increase in Short US Treasury & Foreign Government debt positions of (\$490M) Sales of CMBS positions of (\$90M) Increase in the OCI balance from (\$7.4M) to (2.3M) is due to the sale of a Private RMBS position

#### Corporate Retention Portfolio

The book value of the CRP Portfolio decreased from \$2.78 4Q 2011 to \$2.6B \$1Q 2012

No significant variances to note.

## Market Risk

	12/31/2011	3/31/2012
Level 1 CIO+MSR VAR Limit MSR VAR Limit Level 2 MSR BPV Limit International Equity Vega (long only)	\$145m \$90m \$5m \$11.5m	\$145m \$55m \$4m \$11.5m (temporary limit increase for long
only) International Equity Vega	\$4.5m	\$4.5m

Firmwide stress limit changes. The CIO MTM limit was increased to \$1bln and MTM positions in SAA, FX capital Hedging and CRP are now included in this limit.

The Aggregate limit was increased to \$15bin and under this limit they include the stress on the SAA AFS portfolio . A stress limit for open FX exposures in FX Capital hedging was also added at

US Defined Pension and OPEB Plans

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#### ISSUE FOLLOW-UP

North America
Through CA activities, Audit tracks the entry of all audit issues and related action plans into Phoenix, monitors the progress through completing of action plans and subsequent closure of issues in Phoenix. A monthly analysis of open action plans is prepared and follow up with action plan owners performed by audit before the end of each month.

No new issues or action plans have been added for this quarter.

#### EMEA

There are 3 business identified issues and action plans have been added for this quarter and 1 action plan where the target date has been extended to June 2012 from December 2011.

- GLRS Substantiation Review: There is inadequate documentation of CIO EMEA substantiation procedures incl. the
  methodology used to substantiate each type of GL afe. Thus, GLRS Substantiation methods used by CIO EMEA personnel to be
  reviewed and documented and confirm appropriateness and consistency. ii. Compare substantiation practices used by CIO
  EMEA to CIO Ná and CIO ASIA and address inconsistencies, as determined appropriate. iii. Evaluate the ownership of the
  substantiation responsibilities and determine whether any changes should be made. Action Plan due for completion on 31-May
  2012.
- Model Documentation: Model documentation is required on SABR, Westend and Primus CMT systems in accordance Model Risk Policy, EMEA CIO to facilitate the overall Model Risk Management process, ensuring updated model inventories and follow-up on required documentation, testing, and other requirements mandated by the CIO Model Risk Oversight Group. Action Plan due for completion on 30 June 2012.
- Reconcilitation of bonds set up in CIOWEB: Bonds set up in CIOWEB have their issuer SPN manually attached by whoever is setting up a bond and the incorrect SPN can be selected. This causes downstream risk to calculate incorrectly misstating the positions and risk of CIO. Currently one SPN needs to be set up and mapped for every different ABS tranche that CIOEMEA purchase. The reason for this was a system deficiency in JPM ISI that caused SPN to be used as a substitute for ISIN. It has now been agreed that CIOEMEA should now map all ABS tranches from one issuer to one issuer SPN. This will have the following benefits:
   Reduce the current number of issuer SPNs from 941 to 263
   Eliminate the need to request a new SPN with each tranche purchased

iii)Greater accuracy in ABS to SPN mapping iv)The volume of SPNs previously created also meant that details entered on to the SPN record were often incomplete - the radonalisation of the ABS SPN process should allow more accurate records to be maintained. Action Plan is due for completion on 31 May 2015.

- Amortization on AFS Portfolio vs. Cash: Amortizations on the AFS portfolio are calculated at month end as part of the regular control procedures around the AFS portfolio. The cash relating to these amortizations isn't necessarily received in the same month as when the amortization occurred. This generates a break between the amortizations calculated and the cash received which is subsequently unsubstantiated. Detailed analysis on an ISIN basis is underfaken to identity those counties where cash received straddles month end and resolutions for any breaks are assisted by the cash payments team. The resolution was delayed as the ABS migration was delayed as the ABS migration was delayed as the ABS migration on the balances have stabilised, further analysis can be undertaken to clear the breaks. Expected resolution date 2 months post migration. Action Plan currently set for June 2012 completion.
- CIO Credit-Market Risk and Valuation Practises issued March 2012 rated Needs Improvement identified the following issues:
- CIO Credit-Market Risk and Valuation Practises issued March 2012 rated Needs Improvement identified the following issues:

  CIO VCG practices where a number of risk & valuation models have not been reviewed by Model Review Group and included the absence of a formally applied price sourcing hierarchy, insufficient consideration of potentially applicable fair value adjustments (e.g. concentration reserves for significant credit indices positions) and the lack of formally documented/consistently applied price testing thresholds.

  Stress testing where There is no documented methodology to outline key testing components (e.g. computational method and shock factors used) or assess limitations such as off-line risk measurement, missing risk factors and curves.

  The SAA book (\$140Bn Notional as at 1/2/1) does not currently feed the firm wide market risk limits and thresholds framework and relevant SAA stress testing results are not measured against corresponding limits.

  EMEA CIO is currently using unapproved models in the calculation of risk (Including VaR) and associated risk measurement methodologies have not been appropriately documented and/or catalogued.

  The control process around the off-line VaR calculation needs to be enhanced to ensure completeness and accuracy of Credit trade data used in the off-line VaR calculation needs to be enhanced to ensure completeness and accuracy of Credit trade data used in the off-line valculation of VaR.

Asia
All the issues and action plans raised from 2011 audit were complete and Phoenix issues were closed accordingly before target

#### BUSINESS CHANGES

North America: Dave Alexander (CFO), left ClO for RFS and was replaced by David Bjarnason who has announced his resignation and will be transitioning out of this role in the 2nd quarter.

EMEA - David Bjarnason (EMEA Accounting Policy and Control) is leaving the firm in Q2, 2012. There is currently no indication as to whether he'll be replaced.

Asia - N/A

### FOLLOW-UPS

EMR AND AUDIT REPORT ISSUES

Through CA activities, Audit tracks the entry of all audit issues and related action plans into Phoenix, monitors the progress through completion of action plans and subsequent closure of issues in Phoenix. A monthly analysis of open action plans is prepared and follow up with action plan owners performed by audit before the end of each month.

No new issues or action plans have been added for this quarter.

#### PLAN AND RISK ASSESSMENT CHANGES

Not Applicable. No plan or risk changes in 1Q 2012.

### OVERALL COMMENTS

The following audits were completed during 1Q 2012:

North America: ASC 815 Hedge Accounting (Satisfactory)

EMEA: I. CIO APPIA Systems Migration (Satisfactory)
II. CIO Credit- Market Risk & Valuation Practices (Needs Improvement)

From:

To:

Berg, Jaymin

<Crumlish, Fred>:<Fursa, Thomas>:<Kamath, Jairam>;<Kirk, Mike>;<Monroe, Christopher>;<Wong, Elwyny:<hohi, James>:<Tornese, Doug>;<McLaughlin, Doug>
3/6/2012 9:39:30 PM

Market Risk Minutes

OCCDMRM-688691.DOCX.DRF

Sent: Subject:

Attachments:

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<<...>>

#### Key Takeaways:

Euro Crisis stress scenario was changed. This caused almost a \$28 increase in loss due to the changes in scenario composition (due to nature of shocks chosen).

Aggregate Stress will be changed in the March DRPC meeting. Due to the inclusion of many more portfolios, utilization will increase dramatically. The current \$88 of Aggregate Stress will likely increase to approximately \$208. Limits will be adjusted accordingly.

#### Minutes:

#### Methodology

- No changes to VaR methodology
- Euro Crisis methodology changed for stress scenario. The methodology change increased Euro Crisis by \$1.886B. See IB Stress – Proposed Changes to Euro Crisis v2.
- Lauren McCaffrey and Ian Greene are the contacts if we want to discuss of shock selection for stress grids. OCC did exam recently.
  - The aggregate stress will soon include more books:
- SAA portfolio, the investment portfolio for the bank (from CIO), will add \$10-\$128 of utilization. As these 0 are mostly AFS, they are part of aggregate stress and not mark to market stress. SAA is usually OCI (Other Comprehensive Income).
- PE book will add for 2 others). 0
- A small book from the Commercial Bank.
- Small Asset Management book (AM Co-invest).
- o FX Capital hedging book (approximately The mark to market but now accrual positions will also be included. Accrual part is not in trading VaR. The mark to market piece of FX was always included
- More books could be added in the future such as Global treasury book (which is calculated but not included).

#### Limit Changes

No changes at IB Level for stress or VaR limits.

- $\,$  RFS limits were decreased due to model changes that dramatically reduced VaR (from \$90mm to \$55mm).
- CIO limits are in process of being decreased due to model changes.
- Limits will be reviewed (and approved) in March at the DRPC meeting.
- Firmwide VaR limit will likely not change.

#### Utilization

- Firmwide VaR averaged \$109mm in February versus \$126mm in January. The decrease is due to CIO credit tranche methodology changes, which were implemented on January  $27^{th}$ .
- There were no Firm VaR or Stress breaches in Feb.
- Average Firmwide MTM stress in February was \$3.5B (vs. a \$5.8B limit).
- Average Firmwide Aggregate stress in February was \$8.48 (vs. a \$9.758 limit).
- No loss days for the Firm or IB using non-certified P&L in Feb.

#### <u>Projects</u>

Risk and Finance are working on One Hierarchy Project. They are working to reconcile views (align the hierarchies) between Risk and Finance. Volcker rule requires more detailed risk and return metrics, which is only currently possible at higher levels right now. Aligning Risk and Finance will allow for back-testing at the lower levels. As P&L is currently from Finance and Risk is from VaR, they are not aligned. Alignment must be done in a systematic way.

#### <u>Other</u>

- MRR reports unmapped portfolios to businesses weekly and monthly.
- Unmapped portfolios have different root causes, such as test data being inadvertently sent or a non-MTM portfolio feeding into MaRRs. Feeds come from risk systems or risk aggregators and feed into MaRRs.
- As mapping used to be in MO (middle office) and Risk MO has merged into Product Control, the responsibility has diminished. JPMC acknowledged that the procedure is too manual and they are trying to build a front end tool to address some of these weaknesses.
- This "Portfolio Mapping Too!" will create a audit trail and allow a workflow for execution of changes—allowing communication between PC and Risk. The tool might begin to rollout in 2 to 3 months (it will be a phased approach.
- JPMC said that minor changes were done to the Market Risk Policy on Limit Changes. Although the date on the Market Risk Limits document is May 18, 2011, JPMC said there were changes made to the document that altered the meeting to align with what is done in practice. However, the policy date was not updated. Examiners asked JPMC to review document and check that it aligns with current practice. This will be discussed at the next MRR meeting.
- JPMC reviewed document that reviewed data capture and quality. The diagram was a system flow diagram which showed Risk Management Systems to MaRRs reconciliation as well as Risk Management Systems to

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GL Reconciliation.

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OCC-SPI-00035321



Memo

Comptroller of the Currency Administrator of National Banks

To: File

From: Jaymin Berg

Date: 3/1/2012

JPMC: Lavine Surtani, Matthew Lynch, Thomas Lochtefeld OCC: Jaymin Berg
Fed: Jonathan Godinger, Glenn Roder, Irene Sanchez, Anna lacucci, FDIC: Om Arya

Subject: Market Risk Reporting

Agenda:
Stress and VaR - Firmwide and IB, including breaches to Stress and VaR

Changes/Proposed Changes to:

- Limits
- Organization/Hierarchy
- Definitions of stress scenarios.

Discussion of changes to aggregate stress:

- · Newly included items
- Items in discussion
- Items that are not included

Loss days for the month

- Discussion of Unmapped portfolios
  - A large number of new books feeding downstream systems without any supporting docs, risk hierarchy instructions or LOB identifiers and hence sit in suspense and do not feed risk reports. (Continuous audit 4Q11).
     What is the current status?
- Confirm that Market Risk Limits Firm-wide Risk Policy has not been updated since 5/18/2011.
- Has there been any progress or documentation on the goal to have fewer front office systems (and hence, fewer feeds into MaRRS)?

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Discussion on Data Quality
 O How is the quality of the data received by MRR ensured?

## Key Takeaways:

- Euro Crisis stress scenario was changed. This caused almost a \$2B increase in loss due to the changes in scenario composition (due to nature of shocks chosen).
- Aggregate Stress will be changed in the March DRPC meeting. Due to the inclusion of many more portfolios, utilization will increase dramatically. The current \$88 of Aggregate Stress will likely increase to approximately \$20B. Limits will be adjusted accordingly.

#### Minutes:

## Methodology

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    PE book will add of utilization (includes OEP Partners and 1 or 2 others).

    A small book from the Commercial Bank.

  - Small Asset Management book (AM Co-invest).

    FX Capital hedging book (approximately The mark to market piece of FX was always included but now accrual positiosn will also be included. Accrual part is not in trading VaR.
  - More books could be added in the future such as Global treasury book (which is calculated but not included).

## Limit Changes

- . No changes at IB Level for stress or VaR limits.
- RFS limits were decreased due to model changes that dramatically reduced VaR (from
- CIO limits are in process of being decreased due to model changes.
- Limits will be reviewed (and approved) in March at the DRPC meeting.
- Firmwide VaR limit will likely not change.

# Utilization

- Firmwide VaR averaged \$109mm in February versus \$126mm in January. The decrease is due to CIO credit tranche methodology changes, which were implemented on January 27th.
- There were no Firm VaR or Stress breaches in Feb.
- Average Firmwide MTM stress in February was \$3.5B (vs. a \$5.8B limit).
- Average Firmwide Aggregate stress in February was \$8.48 (vs. a \$9.758 limit).

No loss days for the Firm or IB using non-certified P&L in Feb.

## Projects

. Risk and Finance are working on One Hierarchy Project. They are working to reconcile views (align the hierarchies) between Risk and Finance. Volcker rule requires more detailed risk and return metrics, which is only currently possible at higher levels right now. Aligning Risk and Finance will allow for back-testing at the lower levels. As P&L is currently from Finance and Risk is from VaR, they are not aligned. Alignment must be done in a systematic way.

#### Other

- MRR reports unmapped portfolios to businesses weekly and monthly.
   Unmapped portfolios have different root causes, such as test data being inadvertently sent or a non-MTM portfolio feeding into MaRRs. Feeds come from risk systems or risk aggregators and feed into MaRRS.
- As mapping used to be in MO (middle office) and Risk MO has merged into Product Control, the as napping use to be in not include thicky and its into its region shifting the responsibility has diminished. JPMC acknowledged that the procedure is too manual and they are trying to build a front end tool to address some of these weaknesses.

  This "Portfolio Mapping Tool" will create a audit trail and allow a workflow for execution of
- changes allowing communication between PC and Risk. The tool might begin to rollout in 2 to 3 months (it will be a phased approach.
- JPMC said that minor changes were done to the Market Risk Policy on Limit Changes. Although the date on the Market Risk Limits document is May 18, 2011, JPMC said there were changes made to the document that altered the meeting to align with what is done in practice. However, the policy date was not updated. Examiners asked JPMC to review document and check that it aligns with current practice. This will be discussed at the next MRR meeting.
- JPMC reviewed document that reviewed data capture and quality. The diagram was a system flow diagram which showed Risk Management Systems to MaRRs reconciliation as well as Risk Management Systems to GL Reconciliation.

Follow-up Items:
1. Next Meeting Date: April 5, 2012

### 1. Description

This document describes procedures, roles & responsibilities of CIO's Independent Valuation Control Group ("VCG").

- VCG responsibilities: VCG is responsible for ensuring that independently approved price sources / parameters are used to record assets and liabilities and appropriate adjustments / reserves are made when required, due to material differences between VCG and Front Office marks.
- Frequency of the process: formal monthly review. Market color obtained more frequently depending upon product.

## 2. Key people / sources of information

- Positions and prices that are subject to testing. Responsibility for the price testing process resides in both CIO's Middle Office and VCG. The CIO Middle Office group is responsible for the completeness and accuracy of positions and prices. VCG is responsible for price testing and determining whether pricing adjustments or reserves are required.
- Prices / market value for the transactions from external and internal vendors. (Details on section 6.)
- > Market color information, (Details on section 4.)

## 3. Timeline and overview of the independent valuation process

The CIO valuation process utilizes four main methods.

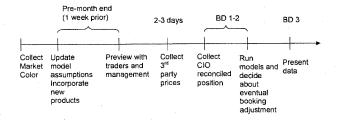
3rd party prices Independent and reliable direct price feeds Cash flow models with public recognized tool (e.g.BondStudio)

Internal models developed by CIO

Independent and reliable direct price feeds are the preferred method for assessing valuation. In general, third party prices/broker quotes are considered the next best pricing source. However, in certain markets where stale or unobservable prices are prevalent, alternative methods will be applied to assess valuation. If broker quotes are not available, VCG would look to perform discounted cash flow (DCF) analysis

utilizing an approved model such as BondStudio. Finally, given a general absence of data associated with an illiquid market, VCG would recommend the development of an internal model to provide a valuation based on relevant market inputs and standard modeling techniques. Each of these methods is discussed in greater detail later in this document.

The timeline of the independent price testing process is:



## 4. Market color collection

Market color refers to price or market value information for transactions similar to those CIO has in its portfolio. VCG collects this information daily (depending on the frequency of the source) from internal JPM sources and external dealer & non-dealer sources such as:

- > JPM IB color from Inventory offering sheets (mortgage positions).
- > JPM IB color from bid lists (mortgage positions).
- > JPM IB research from Morgan Markets (mortgage positions).
- > Color from CIO front office (all positions).
- > Color from CIO VCG collection (excluding above; all sources).
- Dealer (Credit Suisse, Merrill Lynch, Deutsche Bank, Barclays Capital etc.) research for all available products.
- Non-Dealer (rating agencies; government bodies; IMF, non-Financial vendors e.g., ADCO, LPS; academia etc.) research for all available products
- VCG attempts to manually obtain the most recent transaction data in the market that is similar to ClO's transactions with respect to, among other characteristics, risk, maturity, coupon rate and type of product.

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### 5. Product coverage matrix

VCG uses four methods to independently price tested positions based on the hierarchy of sources that is presented in **Appendix 1**.

The details on how independent pricing information is delivered to, and stored by, VCG are included in Appendix 2.

## 6. Third Party Price sources

Independent prices are obtained from various external sources (Markit, Totem, etc.) and applied to CIO positions for price testing purposes. Appendix 3 provides a comprehensive matrix of independent price sources. An example of an externally-sourced price grid that is used by VCG is included in Appendix 4: VCG grid is put together using color bond information in a grid of prices for Non-agency.

### 7. Independent and reliable direct price feeds

The Finance Valuation & Policy Group ("FVP") within the Investment Bank (IB) provides independent pricing to the VCG team for select CIO products. In this case, VCG relies on the IB controls in place regarding the quality of the pricing methodology. In other cases, however, the IB FVP team conducts price testing of select positions on behalf of the CIO VCG team. In either case, the CIO VCG is accountable for the results of price testing (e.g., that the coverage of CIO portfolios is adequate and comprehensive). Refer to Appendix 7 for a product-level summary that identifies the type of support that the Investment Bank specifically provides to VCG.

Additional product level information that pertains to support provided to VCG by the Investment Rank is as follows:

## > Fixed Rate Agency Residential Mortgage Pools TBAs:

For Agency fixed rate MBS pools (either specified or TBAs), the CIO VCG team validates (monthly) a price grid created by IB Middle Office team. The validation is performed using Bloomberg and Barclays pricing information. An example of the grid is on Appendix 6.

VCG does not receive cusip level information for these pools. It is sufficient for CIO VCG to validate the grid and present the total portfolio market value provided by CIO Finance team at the BD3 month end meeting.

Based on this grid, CIO Middle Office assigns the price to the MBS pools at cusip level. If any adjustments are necessary, IB Middle Office sends the adjustment value to CIO VCG for review and ultimately to the Finance team for booking if necessary.

## > Equities and equities derivatives

The CIO equity derivatives group is a price taker from PYRAMID (an IB transaction system that uses the standard Black Scholes options pricing model). The prices

calculated in PYRAMID are updated bi-weekly with volatility updates from TOTEM (an independent market data survey service).

## > Swaps, exchange trade futures and options:

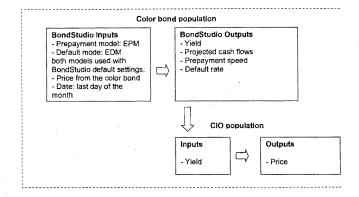
As a general matter, VCG relies on price testing conducted by IB FVP for these products. CIO VCG ensures that the coverage of CIO products is adequate and comprehensive. However, with the move to Primus in EMEA, CIO VCG will validate inputs that are used to create discount curves and prices used for exchange traded products.

## 8. Discounted Cash Flow ("DCF") model on BondStudio

For certain products in CIO, the independent price is determined from the discounted cash flow method calculated using BondStudio. The process is comprised of two steps:

BondStudio is a cash flow tool developed by JPM that is also available to external clients such as banks, hedge funds etc.

Since the color bonds function as a proxy for CIO's transactions, VCG uses the color bond market data as inputs to BondStudio in order to calculate yields appropriate for CIO's transactions.



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#### a Internal models

In cases where a less liquid market exists for a given product, the business may use an internal model to measure fair value (Appendix 3 identifies those products in which the business uses an internal model for such purposes). In this case, it is the responsibility of the business to develop the model, as well as to obtain approval for use from the firm's Model Review Group. However, VCG, as a stakeholder in this process, should ensure that all the necessary inputs to the model are defined and controls around its use are in place.

# 10. Price testing procedures - select products

Procedures that are followed by VCG to independently estimate fair value of tested positions of select products are outlined in Appendix 6.

## 11. Incorporation of new products into the price testing process

When a new product is acquired, VCG performs test runs / parallel analyses during the month prior to month end.

# 12. Preview of price testing results with Front Office & Management

VCG reviews the intermediary results / inputs for valuation with CIO management and Front Office to receive feedback and guidance.

#### 13. Position reconciliation

CIO Middle Office is responsible for generating a file with all CIO positions. In the event of any difference, Middle Office is responsible for investigating the difference and generating an updated file.

# 14. Presentation of results and adjustment decisions

VCG presents a comparison of Front Office marks and VCG independently sourced prices to the following constituents:

- Front Office
- Finance (regional CFOs, regional and global controllers)
- Operating Risk Management

Price differences above the variance threshold listed below are highlighted. The proposed adjustments are reviewed with the identified constituents. Meeting notes are documented as evidence of the discussions.

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## 15. Price Testing Thresholds

In the case of securities, the VCG price for each CUSIP / ISIN is compared to the Trader price for that same CUSIP / ISIN and a variance (\$ market value and % market value) is computed. Thresholds, representing estimates of bid-offer spreads, are applied in assessing the need for price testing adjustments.

In the case of price testing results associated with derivatives and/or other, non-CUSIP-based instruments, a difference between a trader / system mark and VCG mark will be measured. The assessment of whether a price testing adjustment will be passed is determined by considering the size of the positions, the liquidity of the market and whether the price would fall within the normal bid offer spread of the specific market. The basis for price testing adjustments that are judgmentally not passed are documented and explained in a monthly summary that is circulated to senior management.

## 16. Illiquidity / Concentration Reserves

In assessing the reasonableness of fair value measurements that are subject to testing, VCG will consider whether such measurements appropriately reflect liquidity risk, particularly in the case of instruments for which ClO maintains either a significant / concentrated position and/or if the market for a given instrument can be observed to be less liquid. In this regard, VCG is responsible for calculating / monitoring these reserves and consulting with the business on such estimates (see Appendix 8).

CIO - VCG		
Procedure:	Valuation	Process

Last Update: 05/21/2010

# Appendix 1 – Hierarchy of price sources

Month: November 2009

# Description of the process:

- The hierarchy below was applied to all the cusips.
- -When the difference between the trader price and VCG price was greater than the threshold and the DCF price would reduce the difference, the DCF price was applied. This final step is performed given that VCG is comfortable with the effectiveness of the DCF price methodology. In addition, VCG has done manual reviews at the cusip level in past months which indicated that the DCF price is a better representation of fair value for the securities.

  - 1) FTID / IDC 2) S&P 3) TREPP 4) Bloomberg Price 5) VCG Grid 6) Discounted Cash Flows

- Specifically for Municipals:
  1) S&P
  2) FTID, the rest of the sequence is the same

Approved by	
Date of approval:	

Last Update: 05/21/2010

# Appendix 2 - Price sources details: delivery and storage of information

CIO Technology developed a storage database on IntraspectKm for each of the pricing sources. A corporate email was created for each of the sources and any files attached to the email is downloaded and stored as read only, so the integrity of the data is maintained.

Source	How it is delivered to VCG	Corporate email	Database
FTID/ IDC	CIO technology emails IDC information to VCG.	VCG- IDC@intraspectkm.ipmorganchase.co m	https://intraspectkm.jpmorgan chase.com/gm/folder- 1.11.854989
S&P	2 files at shared drive \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	VCG- SandP@intraspectkm.jpmorganchase .com	https://intraspectkm.jpmorgan chase.com/gm/folder- 1.11.854994
	drive\HPPROD\Aqua\P ositions\Aqua\Data\Pric es		Sharedrive: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
TREPP	email from vendor via Trader	VCG- Trepp@intraspectkm.jpmorganchase. com	https://intraspectkm.jpmorgan chase.com/gm/folder- 1.11.854988
Reuters	from Datawarehouse application	VCG-Reuters- Datawarehouse@intraspectkm.jpmor ganchase.com	https://intraspectkm.jpmorgan chase.com/gm/folder- 1.11.854993
Bloomberg	downloaded on last day of month as of close of business by VCG	VCG-Bloomberg- Prices@intraspectkm.jpmorganchase. com	https://intraspectkm.jpmorgan chase.com/gm/folder- 1.11.854986
Pricing Direct		VCG-Pricing- Direct@intraspectkm.jpmorganchase. com	https://intraspectkm.jpmorgan chase.com/gm/folder- 1.11.854992
Brokers	email from brokers	VCG-Broker- Prices@intraspectkm.jpmorganchase. com	https://intraspectkm.jpmorgan chase.com/gm/folder- 1,11,854981

Last Update: 05/21/2010

Appendix 3 - Third Party Pricing Source

Veduct 11 11 11 11 11 11 11 11 11 11 11 11 11	(incl.)	Brokert	Saper	THE PROPERTY.	Bromberg	NEW DOM:	The second second second	ISHOCA TO	Proprieta Bacella
ATE PRODUCTS:		-						1	
Agency ARMS	×								
Agency CMÖ	×			-					
Agency Multi family	×	×							
CDs .	1				х			X	
CMBS				X				X	
Fixed Agency MBS YBAs							Priced by IB		i
Fixed Agency MBS specified pool	1		1						TBA + Pay up Intertial (under development)
FRN	×		1		Х .				
Munia	×		×		X			1	
Non-egency	×	×				X		X	
Non-agency re-resis	, х		1					Х	
REDIT PRODUCTS:									
ABS (student loans and cards)	X				X			X	
Apency	×		1	1	×			T	
Berikfagency preferred	1 ×	1	1		X				
0.0	+		1		1				Internal model
Corporate debt	- ×	<del> </del>	<del>                                     </del>	-	X				
Covered Bond		-		1	×		1		
OTHERS:								1	
Student loan and Jefferson County ARS	T	<del> </del>	<del>                                     </del>		T	T	Priced by B		
Swaptions .	+			·		-		X	
culties and equilies derivatives	<del>                                     </del>	<del> </del>				1	Priced by B	1	
Exchanged Traded Futures and Options	1	1	+	1	1		Priced by B	1	
fX	<del> </del>	<del> </del>	1	<del>                                     </del>	1	1	Priced by ED	1	
FX Options	+	-	1	<b>†</b>	T	1	Priced by B	1	T
Agency MBS Options	<del> </del>	<del>                                     </del>	1	<del>                                     </del>	<del>                                     </del>	-		T	Reviewing model will ONED
IRX	-	<del> </del>	1	<del> </del>	1	1	Priced by 6		
CMBX	+	<del>                                     </del>	-	<del> </del>	<del>                                     </del>	1	Priced by B	1	
dendatory auction	+		<del>                                      </del>	+	<del></del>	x		×	
Prime whole towns	+	<del> </del>	+	<del> </del>	<del> </del>	1	<del> </del>	1	Model under consideration

BANK PROPRIETARY AND/OR TRADE INFORMATION

OCC-SPI-00052685

CIO - VCG

Last Update: 05/21/2010

# Appendix 4 – Example of VCG grid

	NOVEMBER-	
CLASS	2009 PRICE	CUSIP COLOR
Non-Agency ARMs Marginal Prime 10/1s	78	17309RAA0
Non-Agency ARMs Marginal Prime 5/1s	65	74958TAB9
Non-Agency ARMs Marginal Prime S/1s LCF	75	05949CKU9
Non-Agency ARMs Marginal Prime 7/1s	72	92927XAE4
Non-Agency ARMs Marginal Prime 3/1s	60	125694QE1
Non-Agency ARMs Prime 10/1s	85	45630PAY1
Non-Agency ARMs Prime 5/1s	88	466247K51
Non-Agency ARMs Prime 7/1s	84.5	94984GAD9
Non-Agency ARMs Prime 3/1s	68	07387AFV2
Non-Agency ARMs Prime Mandatory Auction	95	
Non-Agency ARMs Vanilla ARMs	88	
Non-Agency BFIO		
Non-Agency Fixed Marginal Prime 30vr	72	525205AA8
Non-Agency Fixed Prime 15vr	98	94982FAQ4
Non-Agency Fixed Prime 30vr	85	94984KAA6
Non-Agency Fixed Prime 30yr Floaters	75	
Non-Agency Fixed Prime 30yr Relo	85	
Non-Agency Mezz Classes ARMs	15.5	B5362TAG2
Non-Agency Mezz Classes Fixed	22	949837836
Non-Agency Mezz Classes Option ARMs	12	02146VAE6
Non-Agency Paid off	0	1
Non-Agency Prepay Penalty & Residuals	0	
Non-Agency ReREMICs ReREMICs 10/1s	99	l
Non-Agency ReREMICs ReREMICs 5/1s	99	1
Non-Agency ReREMICs ReREMICs Alt-A Fixed	99	1
Non-Agency ReREMICs ReREMICs Alt-A Floaters	99	1
Non-Agency ReREMICs ReREMICs Prime Fixed	99	1
Non-Agency Senior/Super Senior ARMs	88	1
Non-Agency Senior/Super Senior Fixed	85	1
Non-Agency Senior/Super Senior Option ARMs	51.5	75115GAA6
Non-Agency Senior/Super Senior Subprime Floaters	86	1
Non-Agency Tax Residuals	0	]
Non-Agency Unknown	0	1

10

OCC-SPI-00052685

BANK PROPRIETARY AND/OR TRADE INFORMATION

CIO - VCG Procedure: Valuation Process	Last Update	: 05/21/2010	
Appendix 5 – Example of Fixe	ed Rate Agency Residential Mor	gage Pools (specified or TB	A) grid

Last Update: 05/21/2010

# Appendix 6 – Procedure for independently estimating fair value for select products

#### NΔ

## > CDs:

The file provided by Middle Office has the coupon rate in the field "system/trader price", therefore VCG estimates the trader price using Bloomberg and the coupon. VCG also calculates the independent VCG price using Bloomberg and DCF.

#### **EMEA**

## > Credit Derivatives:

Index/Tranche Quoted as Spread

Credit Spread BPV (CSBPV) * Spread Difference

CSBPV = Notional * Duration/10,000

Index/Tranche Quoted as Price

Notional * Price Difference/100

Where we have tranches hedging a main index position, the p/l calculation is a 3 step process

- Multiply Tranche notional by Tranche delta, multiply by -1, to give the main index equivalent amount of the tranche. Price test (using one of the calculations above dependant on whether quote is spread or price) using the index reference level. Repeat
- for each tranche.
  2. Price test tranche notional, using the tranche levels and the correct calculation from above.
- Sum the values for each tranche in point 1 and add to the main index position. This is price tested using the Markit v FO price difference.

# > Swaptions:

CIO Middle Office provides Vega sensitivities for our Swaption positions and the volatilities that have been used to create these numbers. CIO VCG sources independent broker volatilities for and calculates a pricing difference based on these parameters.

Last Update: 05/21/2010

Appendix 6 - Procedure for independently estimating fair value for select products (cont'd)

## > CLO:

In connection with CLOs that are carried by CIO-EMEA, VCG will:

- Corroborate default rate, recovery rate and recovery lag assumptions through a review of supporting documentation.
- Evaluate the reasonableness of the proxy that was selected for purposes of establishing the utilized correlation parameter by periodically monitoring the average par subordination of the CLQ portfolio as compared to referenced tranche.
- Assess the reasonableness of the liquidity spread assumptions by:
   Reviewing the front office analysis that estimates a range within which the selected liquidity spread will be determined.
  - Performing a similar analysis involving other identified proxies (CDXIG bond basis, UK RMBS market)
  - Monitoring broker quotes, other market activity as an alternative means of validating the liquidity spread input
- 4. Understand the FO rationale for the proposed weighting of CLO Model output, secondary market prices and broker quotes.

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Appendix 7

Product	Price Tested by IB FVP	Price Tested by CIO VCG Using IB Data
Equity Derivatives	x	-
Swaptions		x
Exchange-traded products ¹	x	
Discount Curves ¹	x	
Securities (Govt & Govt Gtd)		x
Credit Indices & Tranches ²		x

 $^{^1}$  As we move to the Primus environment this responsibility will transfer to the CIO VCG  2  This forms a subset of the data used in the price testing process

Last Update: 05/21/2010

## Appendix 8 - Concentration / Illiquidity Reserves for CDS

## Price Discovery (Illiquidity)

Price Discovery reserve is taken under either of the following 2 scenarios:

- The price (spread) cannot be observed, or
   The index is off the run (an off the run index is defined as: any index older than 4 series for example, the current on the run CDX series are 13, therefore, all indices series 9 and older are considered off the run, ITRAXX would be Series 8 and older)

Price Discovery = Net PVBP * sqrt(t) * Spread Volatility in bps

Where: t is the number of business days since the last external trade (capped at 120 days.)

Price Discovery reserve is capped at: 5% Credit Spread Widening

(PVBP * Internal Spread in bps * 0.05)

Excess 5yr Equivalent Position * (5Y Duration / 10,000) * sqrt(Liquidation Period) * Spread Volatility in bps

#### Where

- Excess 5Y Equivalent Position = Net 5yr Equivalent Position Threshold
   Liquidation Period = Net 5yr Equivalent Position / Average Daily Market Size
   Threshold and Average Daily Market Size are based on the table below:

Index	Daily Volume	Threshold		
On The Run Index	3,000,000,000	500,000,000		
Off The Run Index	3,000,000,000 * Series Factor	500,000,000 * Series Factor		
Series factor = 1 / (Or Series factor is floore	the run series number - Se	ries number)		

## Assumptions

- The IB policy does not apply to tranches (they calculate a value based on the single name and just pass a pricing adjustment). For this exercise I have applied the index calculations to the tranches.
- 2. The IB calculates the spread vol using a rating bucketed vol based on a basket of names and apply this number across all indices. They do not calculate using specific name vols which would be more accurate. I need to speak to Pat Hagen to see if we can produce our own number. For purposes of this exercise I have applied the IB vol to ITRAXX, CDX IG & HY.

Last Update: 05/21/2010

- 3. The liquidity calculation contains a variable of when the instrument was last traded. The IB has a maximum of 120 days that they use for all calculations. The rationale is that small trades, done infrequently should not impact the valuation of these trades. As we are more actively trading these instruments in risk reduction mode we may wish to consider a different approach.
- 4. A cap is placed on the liquidity reserve at 5% of Credit Spread Widening. This is based on a market making business and we can look at whether this is applicable for our style of trading.

From: To: Sent:

Brosnan, Mike Eccles, Jennifer 8/16/2012 9:55:44 PM

Subject:

FW: Important: Update on P&L Marks

From: Brosnan, Mike

Sent: Tuesday, July 10, 2012 1:00 PM
To: Crumlish, Fred; Waterhouse, Scott; Belshaw, Sally
Subject: RE: Important: Update on P&L Marks

Ok. Pls crisply convey during the right page at 4pm meeting.

thx

From: Crumlish, Fred Sent: Tuesday, July 10, 2012 12:58 PM To: Brosnan, Mike; Waterhouse, Scott Subject: Important: Update on P&L Marks

Importance: High

Spoke to D. Genova, attny at JPM, regarding the discomfort they had on marks and results.

Bottom line - Company lost confidence in march marks, new marks increase loss 472mm for March. Company hasn't decided if they should 1) restate or 2) report in 2Q with full disclosure. Currently work with external accountants etc. Decision hasn't been made.

# More background -

Junior trader had been under pressure during March as losses mounted to mark the book in a way that minimized them with the view that it would correct by month end. (Traders had been tracking "distance to mid," a number that grew during the quarter along with discomfort and tension on desk).)

At quarter end, junior trader also under pressure. Bottom line is that instead of marking to mid, in most cases longs were marked at offer and shorts as bid.

VCG (independent price testing) had their own mid and a series of thresholds in bps. If marks fell within this range they, weren't questioned. (there was no dollar cap)

Note valuation controls have since been changed.

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## CONTROLLERS CORPORATE ACCOUNTING POLICIES

CATEGORY: SUBJECT:

1-0100 General Accounting Policies

Fair Value Measurements

1-0105

EFFECTIVE DATE: ISSUE DATE:

January 1, 2007 November 8, 2007

Accounting Policies Contacts: Kathy Ryan (primary)

Victoria Sligar (secondary)

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  D. Valuation Hierarchy
  E. Transaction Costs
  F. Other Considerations
- V. CROSS-REFERENCES
- VI. REFERENCES TO AUTHORITATIVE LITERATURE

# APPENDIXES

## I. INTRODUCTION

U.S. GAAP requires or permits via an optional election certain assets and liabilities to be recorded at fair value. In September 2006, the FASB issued Statement 157, Fair Value Measurements (Statement 157), which provides a single definition and framework for fair value measurements to ensure consistency of application. Statement 157:



## CONTROLLERS CORPORATE ACCOUNTING POLICIES

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POLICY NO: EFFECTIVE DATE: ISSUE DATE:

January 1, 2007 November 8, 2007

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## APPENDIXES

# I. INTRODUCTION

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- · Defines fair value:
- Bethits an invalid a three-level hierarchy for fair value measurements based upon the transparency of inputs to the valuation of an asset or liability as of the measurement
- Nullifies the guidance in EITF 02-3, which required the deferral of profit at inception of a transaction involving a derivative instrument in the absence of observable data supporting the valuation technique;
- Eliminates large position discounts for financial instruments quoted in active markets;
- Requires consideration of the Firm's own creditworthiness when valuing liabilities; and
   Expands disclosures about instruments measured at fair value.

## II. DEFINITION OF TERMS

Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date.

 Represents an exit price. The transaction price, or entry price, may in certain cases
represent the exit price but the entry price should not be presumed to represent the fair value of an asset or liability at initial recognition.

Highest and best use
The highest and best use of an instrument is determined based on its use by market participants, where maximum value is derived principally on a standalone basis, the highest and best use of the instrument is "in-exchange"; where the maximum value of the instrument is derived principally through its use in combination with other instruments, its highest and best use is "in-use."

<u>Inputs</u>
<u>Observable</u>—Observable inputs are inputs that reflect the assumptions that market participants use in pricing the asset or liability developed based on market data obtained from sources independent of the Firm. Characteristics of observable inputs include readily available, not proprietary, regularly distributed, and transparent.

Unobservable—Unobservable inputs are inputs that reflect the Firm's own assumptions about the assumptions that market participants would use in pricing the asset or liability developed based on the best information available in the circumstances.

Market participants
Buyers and sellers in the principal (or most advantageous) market. A market participant must be independent (not a related party to JPMC), knowledgeable, able to transact (have the legal and financial capacity to do so), and willing to transact (not forced or otherwise compelled to do so).

Nonperformance risk refers to the risk that the ohligation will not be fulfilled and affects the value at which a liability is transferred. Nonperformance risk includes the reporting entity's credit risk as well as settlement risk and may include, in the case of commodities, the risk related to physically extracting and transferring the asset to the delivery point.

Unit of account
The unit of account determines what is being measured by reference to the level at which
the asset or liability is aggregated or disaggregated for purposes of applying accounting

## III. SCOPE

This policy describes JPMorgan Chase's (JPMC) policy in consideration of FASB Statement No. 157, Fair Value Measurements, which was effective January 1, 2007.

Instruments/transactions for which a fair value or fair-value-based measurement may apply but are not subject to this policy include:

- Share based payments accounted for in accordance with FASB Statement No. 123R, Share Based Payment (Statement 123R). While certain measurements in Statement 123R are fair-value-based measurements, they may exclude the effects of certain inputs such as conditions, restrictions and other features that would be considered in a fair value measurement under Statement 157.
- Instruments valued in accordance with Accounting Research Bulletin No. 43, Inventory Pricing.
- Accounting pronouncements that permit measurements that are based on, or use, vendor-specific objective evidence of fair value.
- Situations where U.S. GAAP provides a practicability exception to the application of fair value, for example:
  - Guarantees accounted for in accordance with FASB Interpretation No. 45 which allows for the use of transaction price (an entry price) to measure fair value at initial recognition. See also Corporate Accounting Policy #1-0108, "Guarantees."
  - Certain disclosures provided in accordance with FASB Statement No.107, Disclosure about Fair Value of Financial Instruments, where it is not practical to measure fair value. Corporate Accounting Policies must be consulted where this is determined to be the case.
  - is determined to be the case.

    Certain Asset Retirement Obligations accounted for in accordance with FASB Statement No. 143, Accounting for Asset Retirement Obligations, where fair value is not readily determinable.

    Certain Contributions accounted for in accordance with FASB Statement No.116,
  - Accounting for Contributions Received and Contributions Made, where contributions cannot be measured with sufficient reliability.

Note: FASB Statement No. 141, Business Combinations, requires the use of fair value as Note: FASB Statement NO. 141, Fustness Combinations, requires the use of fair value as the measurement objective, at inception, for certain assets acquired and liabilities assumed in a business combination (for example, intangible assets) and these assets and liabilities are therefore subject to this policy. In certain circumstances, where the valuation techniques applied to the asset or liability may be similar to a fair value measurement but fair value in the repulsive the repulsed measurement objective the solive does not easily fair value is not explicitly the required measurement objective, this policy does not apply (for example, receivables, notes payable, plant and equipment to be used).

## IV. ACCOUNTING POLICY

The focus of this policy is how to arrive at a fair value measurement. This policy does not incorporate guidance regarding which instruments are required to be measured at fair value or which instruments the Firm has made an optional election to measure at fair value.

Fair value measurements
Fair value is the price to sell an asset or transfer a liability in the principal (or most advantageous) market for the asset or liability. The sale or transfer assumes an orderly transaction between market participants. The transaction to sell the asset or transfer the liability is a hypothetical transaction at the measurement date, considered from the perspective of a market participant that holds the asset or owes the liability. Therefore, the objective of a fair value measurement is to determine the price that would be received to sell the asset or paid to transfer the liability at the measurement date (an exit price). Because that exit price objective applies for all assets and liabilities measured at fair value, any fair value measurement requires identification of the following:

- The particular asset or liability that is the subject of the measurement
- The valuation premise appropriate for the measurement
- The principal (or most advantageous) market for the asset or liability. The valuation technique(s) appropriate for the measurement, considering the availability of data with which to develop inputs that represent the assumptions that market participants would use in pricing the asset or liability.

## A. Valuation Premise

The valuation premise used to measure the fair value of an asset or liability depends on the highest and best use by market participants. If the maximum value is derived on a standalone basis, then an "in-exchange valuation" should be applied. If the maximum value is derived through its use in combination with other assets or liabilities, then an "in-use valuation" should be applied. Whether the asset or liability is a standalone asset or liability or a group of assets and/or liabilities depends on its unit of account. The unit of account determines what is being measured by reference to the level at which the asset or liability is aggregated (or disaggregated) for purposes of applying other releases a committing uniforms. other relevant accounting guidance.

The in-exchange valuation premise is generally applicable to financial instruments and the in-use valuation premise is generally applicable to nonfinancial assets. However the "in-use valuation" premise may apply to financial instruments in certain circumstances where (1) it is more reflective of the market participant exit price and (2) there is historical evidence to support an "in-use" valuation; for instance, the highest and hest use of certain mortgage warehouse loans is considered to be in-use when such warehouse loans are pooled for the purpose of securifization. Detailed discussion of the application of substitution permise to certain financial instruments has been included. the application of valuation premise to certain financial instruments has been included in Appendix A.

#### B. Relevant Market

A fair value measurement should reflect an exit price in the *principal market* for the asset or liability. The principal market is the market in which the Firm transacts with the greatest volume or level of activity.

- If there is no principal market, the exit price should reflect the amount that would be received or paid in the most advantageous market (the market in which the Firm would maximize the amount that would be received for an asset or minimize the amount that would be paid to transfer a liability).
- If there are multiple markets for the same asset or liability.

  If there are multiple markets for the same asset or liability, the most likely exit market should be considered to determine the exit price and the other exit markets do not need to be considered.
- For assets and liabilities where there is little or no trading, or a one-way market, the
  Firm must make a determination of what a willing counterparty would offer to
  purchase an asset or assume a liability. The determination of what a willing
  counterparty would offer to purchase an asset or assume a liability should consider
  all available market information that the market participants would use to price the
  asset or liability.

A discussion of the application of principal market to certain financial instruments has been included in Appendix A.

See also discussion of transaction costs below.

## C. Valuation/Measurement

Valuation techniques³ used to measure the fair value of an asset or liability should maximize the use of observable inputs, that is, inputs that reflect the assumptions market participants would use in pricing the asset or liability developed based on market data obtained from independent sources. Valuations must consider current market conditions and available market information and will therefore represent a market-based, not entity specific, measurement.

Fair value should be based on quoted market prices, where available. If listed prices or quotes are not available, then fair value should be based upon internally developed models that use primarily market-based or independently-sourced market parameters, including interest rate yield curves, option volatilities and currency rates. In certain circumstances valuation adjustments must be made to ensure that financial instruments are recorded at fair value. These adjustments should be applied consistently over time and may include:

- <u>Credit valuation adjustments ("CVA")</u> are necessary when the market prices (or parameters) are not indicative of the credit quality of the counterparty.
- <u>Debit valuation adjustments</u> ("DVA") are necessary to reflect the impact of the Firm's own creditworthiness in the valuation of liabilities that are carried at fair value. See further discussion of DVA in Appendix B of this policy. See also discussion of Liability considerations below.

- Liquidity valuation adjustments are necessary when the Firm may not be able to observe a recent market price for financial instruments that trade in inactive (or less active) markets or to reflect the cost of exiting larger-than-normal market-size risk positions. Liquidity adjustments are based upon the following factors:
  - The amount of time since the last relevant pricing point

  - Whether there was an actual trade or relevant external quote The volatility of the principal component of the financial instrument

Costs to exit larger-than-normal market-size risk positions are determined based upon the size of the adverse market move that is likely to occur during the extended period required to bring a position down to a nonconcentrated level.

No adjustments may be made to the quoted price for instruments classified within Level 1 of the valuation hierarchy (see discussion of the fair value hierarchy in Section IV.D. of this policy).

- Unobservable parameter valuation adjustments are necessary when positions are valued using internally developed models that use unobservable parameters (parameters that must be estimated and are therefore subject to management judgment) as their basis. Risk-averse market participants generally seek compensation for the uncertainty associated with the cash flows of an asset or liability (risk premium).
- <u>Uncertainties and customization related to loan securitization</u> for loans that are expected to be securitized, fair value is estimated based on observable pricing of asset-backed securities with similar collateral and incorporates adjustments (i.e., reductions) to these prices to account for securitization uncertainties including portfolio composition, market conditions and liquidity.
- Restrictions

There are generally two types of restrictions:

Restrictions on sale

Examples of a restriction on sale include restrictions on private placements, underwriter lock-up, and volume restrictions. An adjustment must be made to the value of the instrument to reflect the price adjustment that a market participant would make due to the lack of marketability. An adjustment for a restriction should be re-evaluated and adjusted appropriately as the time to the expiration of the restriction decreases.

Note: When a publicly traded security position incorporates both restricted and non-restricted securities, the adjustment for restrictions will be applied only to the restricted shares. For example, securities subject to SEC Rule 144 restrictions may have portions of the position that are unrestricted depending on trading volume. Additionally, SEC Rule 144 shares may be free to trade if a shelf registration has been filed.

Restrictions on use
An example of a restriction on use would include a restriction on the use of a physical asset such as land or a building. An adjustment cannot be taken as a result of the restriction if it is deemed to be a restriction on use.

The determination of whether a restriction should be incorporated in the valuation of an asset or liability requires judgment and consultation with Corporate Accounting Policies.

Liability considerations—a fair value measurement for a liability assumes (1) that the liability is transferred to a market participant and the liability to the counterparty continues (it is not settled), and (2) that the risk of nonperformance is the same before and after the transfer. Nonperformance risk or the risk that the obligation will not be fulfilled impacts the amount at which a liability would be transferred.

The adjustment to a valuation for nonperformance risk (or the impact of the Firm's own creditworthiness) is called the Debit Valuation Adjustment or "DVA." See further discussion of DVA in Appendix B of this policy.

#### D. Valuation Hierarchy

All instruments measured at fair value are required to be classified within a three-level hierarchy that is primarily used for external disclosure purposes. The fair value hierarchy prioritizes inputs to the valuation of an instrument. When the inputs to the valuation fall within different levels of the hierarchy, the level in which the instrument is classified is based on the lowest level significant input to the valuation. Where an instrument is classified within the fair value hierarchy also impacts the Firm's ability to record valuation adjustments, for example, no valuation adjustments may be recorded for instruments classified within Level 1 of the hierarchy

Detailed below is a description of the hierarchy levels, the Firm's policies associated with the determination of classification, and examples of products included within each of the levels:

Note: Maintenance of documentation to support the level of classification for a product within the fair value hierarchy is the responsibility of the Line of Business Controllers and CFOs.

Level 1-inputs to the valuation methodology are quoted prices (unadjusted) for identical assets or liabilities in active markets.

- An active market is defined as one in which an accurate daily price can be obtained from multiple reliable sources and a fair value measurement (exit price) may be
- arrived at without adjustment or the use of a model.

  No adjustments may be made to the quoted price for instruments classified within
- Level 1 (for instance, block discounts [size of position discounts] are prohibited).

  Where a quoted price in an active market is available for the identical asset but is not readily accessible for the individual instrument, the Firm may use an alternative

pricing method (for example, matrix pricing). Where an alternative pricing method is utilized as a practical expedient the instruments must be classified in a lower level of the hierarchy.

#### Examples of Level 1 instruments:

Highly liquid government bonds, certain mortgage products (for example, residential agency pass-through securities), exchange-traded equities, and exchange-traded derivatives.

## Level 2-inputs to the valuation methodology include:

- · Quoted prices for similar assets or liabilities in active markets.
- Quoted prices for identical or similar assets or liabilities in markets that are not
  active, that is, markets in which there are few transactions for the asset or liability,
  the prices are not current, or price quotations vary substantially either over time or
  among market makers (for example, some brokered markets), or in which little
  information is released publicly (for example, a principal-to-principal market).
- information is released publicly (for example, a principal-to-principal market).
   Inputs other than quoted prices that are observable for the asset or liability, either directly or indirectly, for substantially the full term of the financial instrument (for instance, interest rates and yield curves observable at commonly quoted intervals, volatilities, prepayments speeds, loss severities, credit risks, and default rates).
- Inputs that are derived principally from or corroborated by observable market data by correlation or other means (market-corroborated inputs).

There is generally evidence of two-way flow (purchases and sales in the market) for instruments that are classified within Level 2.

#### Examples of Level 2 instruments:

Common stocks traded and quoted on an inactive market in an emerging country, privately placed bonds whose value is derived from a similar bond that is publicly traded, over-the-counter interest rate swaps valued based on a model whose inputs are observable LIBOR forward interest rate curves, resale and repurchase agreements, warehouse loams, certain collateralized mortgage and debt obligations, certain high-yield debt securities, as well as certain structured liabilities where the inputs to the valuation are primarily based upon readily observable pricing information.

Level 3—inputs to the valuation methodology are unobservable and significant to the fair value measurement. Fair value for Level 3 instruments is based on internally developed models in which there are few, if any, external observations. For transactions in this category, there is rarely a two-way market, and typically there is considerable structuring (making the product largely one-off and JPMC proprietary).

- Unobservable inputs should only be used when observable inputs are not available (inputs are unobservable when they reflect the Firm's own assumptions about the assumptions market participants would use to price the instrument).
- The exit price measurement objective remains the same in Level 3; therefore, the Firm's own data should be adjusted if there is contrary data indicating that market participants would use different assumptions to price the instrument.

. In certain circumstances, an instrument that is classified within Level 3 at inception may become more observable as it approaches maturity. In those cases, when the unobservable component is no longer significant, the instrument will be transferred

Instruments for which there is an unobservable input are generally classified within Level 3. If there is evidence present to demonstrate that the unobservable inputs are not significant to the valuation through evidence such as two-way market trades, extensive pricing agency data, broker data or other relevant trade information, the instrument may be classified within Level 2.

Examples of Level 3 instruments:

Long-dated commodity swaps where the relevant forward price curve is not directly observable or correlated with observable market data, shares of a privately held company, structured notes with significant unobservable inputs, mortgage servicing rights, retained interests in securitizations, and goodwill.

#### E. Transaction Costs

The price in the principal (or most advantageous) market used to measure the fair value The price in the principal (or most advantageous) market used to measure the fair value of an instrument should not include transaction costs. Transaction costs represent incremental direct (i.e., invoiced) costs to transact in the principal or most advantageous market, are not an attribute of the asset or liability being measured, and are reported as direct expenses in the Consolidated Statement of Income with limited exception (see Corporate Accounting Policy #1-0107, "Netting of Assets and Liabilities and Related Income and Expense"). Transaction costs include, but are not limited to, invoiced brokerage and commissions and certain due diligence costs.

Transaction costs which are incorporated within the bid offer spread (i.e., in-the-price brokerage) are reported net within principal transactions and are not separately identified for reporting purposes.

Transaction costs do not include the costs that would be incurred to transport an asset or liability to (or from) the principal (or most advantageous) market. Where location is an attribute of the asset or liability as may be the case for a commodity, the price in the principal or most advantageous market used to measure fair value of the asset or liability should be adjusted for the costs that would be incurred to transport the asset or liability to (or from) its principal (or most advantageous) market.

# F. Other Considerations

Cut-off time

For instruments for which quotes are available prices must be obtained at the same time each business day. This includes cases where products are valued using models even though market prices are available in other time zones (for example, when trading across different exchanges). In addition, prices for hedges and the items being hedged must be sourced at the same time of day.

For internal trades between portfolios based in different regions, each side may be priced using the closing price obtained at the appropriate cut-off point in the relevant

# V. CROSS-REFERENCES

CROSS-REFERENCES

Corporate Accounting Policy #1-0106, "Fair Value Option"
Corporate Accounting Policy #1-0107, "Netting of Assets and Liabilities and Related Income and Expense"
Corporate Accounting Policy #1-0112, "Consolidation of Variable Interest Entities"
Corporate Accounting Policy #1-0112, "Consolidation of Variable Interest Entities"
Corporate Accounting Policy #2-0301, "Repurchase/Reverse Repurchase Agreements and Securities Lending and Borrowing"
Corporate Accounting Policy #2-0401, "Trading Securities"
Corporate Accounting Policy #2-0502, "Securities Acquired in Loan Satisfactions"
Corporate Accounting Policy #2-0503, "Loan Securitizations"
Corporate Accounting Policy #2-0603, "Loan Securitizations"
Corporate Accounting Policy #2-0605, "Consumer Loan Delinquencies, Nonaccruals, Charge-Offs, Modifications, Reagings, and Recoveries"
Corporate Accounting Policy #2-0601, "Long-Lived Assets (Other than Internal Use Computer Software/Web Site Development)"
Corporate Accounting Policy #2-1005, "Investments in Nonmarketable Equity Securities"
Corporate Accounting Policy #3-0601, "Accounting for Structured Liabilities"
Corporate Accounting Policy #3-0601, "Accounting for Structured Liabilities"
Corporate Accounting Policy #3-0601, "Accounting for Lending-Related Fees"
Corporate Accounting Policy #3-0701, "Long-Term Debt"
Corporate Accounting Policy #6-0101, "Accounting for Lending-Related Fees"
Corporate Accounting Policy #6-0101, "Accounting For Lending-Related Fees"
Corporate Accounting Policy #6-0101, "Interest Income Recognition"

## VI. REFERENCES TO AUTHORITATIVE LITERATURE

FASB Statement No. 107, Disclosure about Fair Value of Financial Instruments FASB Statement No. 115, Accounting for Certain Investments in Debt and Equity Securities

Securities
FASB Statement No. 123R, Share Based Payment
FASB Statement No. 141 Business Combinations
FASB Statement No. 143, Accounting for Asset Retirement Obligations
FASB Statement No. 157, Fatir Value Measurements
FASB Statement No. 159, The Fair Value Option for Financial Assets and Liabilities
ASR No. 118, Accounting, Valuation and Disclosure of Investment Securities
EITF 02-3, Issues Involved in Accounting for Derivative Contracts Held for Trading
Purposes and Contracts Involved in Energy Trading and Risk Management Activities

## APPENDIX A

## Fair Value Measurements for Certain Instruments Carried at Fair Value

This Appendix is intended to give further background regarding the fair value measurements for certain instruments carried at fair value. The list is not meant to be all inclusive.

## I. <u>Derivatives</u>

#### Background

The Firm makes markets in derivative contracts, transacting with retail and institutional clients as well as other dealers.

#### Valuation Premise

The valuation premise for derivatives is in-exchange. The unit of account is the portfolio.

Relevant Market
 In general, the dealer market is the Firm's principal market for derivative transactions as the greatest volume of the Firm's derivatives activities occur in the dealer market. In addition the dealer market is the most advantageous exit market for the Firm.

## Valuation/Measurement

<u>Valuation/Measurement</u>
The unit of valuation for derivatives is the portfolio. The starting point for the valuation of a derivatives portfolio is mid market. As a dealer, the Firm can execute at or close to mid market thereby profiting from the difference between the retail and dealer markets. If the Firm cannot exit a position at mid market certain adjustments are taken to arrive at exit price. (See Section IV.C. of this policy for a discussion of valuation adjustments.)

## II. Structured Notes/Repos/Resales

#### Background

Background
The Firm issues structured notes as a means to deliver derivative risk to retail and institutional clients that wish to invest in derivative risk in a funded format. Derivative risk, which may include credit risk, interest rate risk, foreign exchange risk, commodity risk and equity risk, is embedded in a debt host contract and issued in the Firm's name. The derivative risk is the primary deriver of the need fund less. driver of the profit and loss.

 $\frac{Valuation\ Premise}{The\ valuation\ premise}$  The valuation premise for structured note is in-exchange. The unit of account is the portfolio.

## Relevant Market

There is no active secondary market for most structured note products and sales to third parties are rare. Dealers (issuers) will provide indicative quotes for their own paper and will repurchase or unwind with the original counterparty (investor). A dealer generally will not buy instruments issued by others. As such, not all market participants operate on both sides of the structured notes market.

The principal market for the Firm is the primary (issuance) market for structured notes. Market participants include other dealers (issuers) to whom a liability could be transferred (who take positions on the liability side of their

 Valuation/Measurement
 To estimate the fair value of structured notes, cash flows are evaluated taking To estimate the lar value of structured notes, cash flows are evaluated tasking the into consideration any derivative features and are then discounted using the appropriate market rates for the applicable maturities. As the primary risk in the "funded derivative" is derivative risk, market participants that issue structured notes use the same assumptions in valuation as those used in deriving an exit price in the derivatives market. In the absence of actual data for liability transfers for this product, the hypothetical transaction is based on assumptions in active markets for similar risks (derivative market).

## III. Mortgage Loan Warehouses

## Background

Dackground
The Firm purchases and originates mortgage loans for securitization. Types of mortgages include: Agency mortgages (conforming mortgages sold to GNMA, FNMA and/or Freddie MAC) Alt-A, Alt-B, subprime and commercial mortgages.

<u>Valuation Premise</u>
The unit of account is the mortgage loan. Mortgage warehouse loans are valued using an in-use valuation premise as maximum value, for a mortgage loan expected to be securitized, is derived when combined with other such

Relevant Market
The principal market for a product or instrument is the market in which the
Firm transacts with the greatest volume or level of activity. The securitization
market is the principal market for mortgage warehouse loans as securitization
is the primary exit strategy for the Firm.

Valuation/Measurement
Fair value is based upon observable pricing of asset-backed securities with
similar collateral and incorporates adjustments (i.e., reductions) to these prices
to account for securitization uncertainties including portfolio composition, market conditions and liquidity.

#### Valuation technique

Valuation technique
All mortgage warehouse loans should be priced using a mock securitization
(bond execution) basis, which is a market approach valuation technique.
Under this approach, structuring models (combined with Rating Agency
modeling approaches) are used to create representative deal structures,
including bond levels by rating with loss coverage amounts and reflect the
"offer" side of the market where the securitization take out occurs.

# IV. Mortgage Servicing Rights

#### Background

Background
Mortgage servicing rights ("MSRs") represent rights to receive cash payments in connection with performing the tasks required to service pools of previously sold mortgage loans. These cash payments include, but are not limited to, negotiated servicing fees, interest earned on escrow balances, late fees, and float earnings on principal/interest payments.

<u>Valuation Premise</u> Pooling of MSRs maximizes value to the market participants by both creating roomg of MSRs maximizes value to the lanker participants by both retaing less uncertainty in the cash inflows and permitting the market participant to benefit from cost synergies that occur in servicing more mortgage loans. As a result of these benefits, market participants see more value for MSRs that are pooled in a portfolio than they would for individual servicing contracts.

Consequently, the highest and best use of MSRs from the perspective of marketplace participants is in-use.

Relevant Market
MSRs are not traded actively with readily observable prices; sales are typically MSRs are not traded actively with readily observable prices; sales are typically negotiated and brokered privately between entities. Trading volume is infrequent and unlike the brokering of a financial asset, the entities transacting must bave a servicing platform and be able to perform the required servicing. Sales of MSRs are also subject to approval by investors in the mortgage-backed securities issued when the underlying loans were securitized. Based on the above, the principal market for MSRs, for the Firm, is a hypothetical market where the market participants have extensive servicing capabilities and benefit from certain cost economies of scale.

<u>Valuation/Measurement</u>
The valuation of MSRs is generally estimated by calculating the present value of the estimated gg future servicing cash flows to be received over the life of the servicing contract. The net cash flows are comprised of servicing revenues less related costs of servicing. The maximization of MSR value must either increase the cash inflows or decrease the costs of servicing.

#### APPENDIX B

#### JPMC Implementation of DVA

(See also discussion of liability considerations in Section IV.C. of this policy.)

In order to incorporate the effect of changes in the Firm's creditworthiness in derivative valuations, and because there is no industry standard for such calculations, the Firm developed its DVA methodology utilizing assumptions that it believes other market participants would use to value liabilities due by the Firm.

Specifically, the Firm leveraged its current Credit Valuation Adjustment (CVA) spectrically, the Thin reverged methodology used to calculate and record the effect of counterparty credit risk for derivative receivables. The CVA is derived by calculating an expected positive exposure (EPE) at time of counterparty default (including certain collateral assumptions) and applying to it the counterparty's credit spread or a proxy thereof and a standard default recovery rate to arrive at an adjustment for credit. Similarly, DVA is calculated as expected negative exposure (ENE) x JPMC's market credit spread and a standard recovery assumption. Details for each of these key inputs follow

Expected Negative Exposure (ENE)
The basic huilding block for DVA is Expected Negative Exposure (ENE); that is, what the firm would expect to owe derivative counterparties at the time of its default. This is computed by first generating possible scenarios of underlying market factors and averaging over all portfolio market-on-market values, treating positive values as zero. These scenarios take into account the impact of legally enforceable netting agreements and existing collateral agreements with the counterparty as well as collateral agreements which are probable of being enacted in the event of a significant deterioration in the Firm's credit standing.

Legally enforceable netting agreements

The Firm has master netting agreements in place with virtually all derivative counterparties. Upon default or termination of any one contract, a master reting agreement provides for the net settlement of all contracts with the counterparty through a single payment in a single currency. The netting provisions in the agreement are legally enforceable and as such would serve as a mitigant (a reduction) to ENE to the extent that the Firm had positive as a mitigant (a reduction) to ENE to the extent that the Firm had positive exposure to the respective counterparty for other derivative contracts. An important assumption that the Firm makes for both CVA and DVA is that the Firm would not settle all deals where possible. The Firm believes that this assumption is well corroborated by its behavior and the behavior of other market participants. The Firm also believes that the incorporation of nothing agreements into the DVA calculation is supported by paragraph 15 of Statement 157 which indicates that the terms of credit enhancements related to a liability should be incorporated in the value of that liability. Although it deals with presentation, Paragraph 21 of FIN 39 also acknowledges that credit risk is best reflected by net amounts under a master netting agreement.

Existing collateral arrangements with counterparties

Consistent with the Firm's approach regarding master netting agreements, the Firm incorporates the existence of collateral agreements in deriving the ENE. The Firm assumes that a counterparty to which an assignment was being made would demand credit protection comparable to that obtained by the transferor, thus requiring reflection in the exit price.

Probable collateral arrangements

In an idiosyncratic default scenario, the Firm also considers the probability of new credit enhancements being required at the time of the credit event.⁸ This assumption impacts the exposure (ENE) to the Firm's counterparties as the Firm's credit deteriorates.

As the Firm heads to default idiosyncratically, in order to maintain its derivatives franchise the Firm would likely be required by its counterparties to either enter into unilateral collateral agreements where there are none, or to renegotiate existing collateral agreements to terms more favorable to the Firm's clients. For modeling purposes, the assumption is that a unilateral collateral agreement, in favor of the client, would be put into place. Consideration of the impact of probable credit enhancements within the valuation appropriately prevents the recognition of a gain that would not be realized due to the imposition of a new collateral agreement.

While it is clear that derivative counterparties impacted by the Firm's credit deterioration would request additional credit support, there is also evidence suggesting that market participants faced with a call for additional collateral would also respond by posting collateral in order to protect their derivative franchise. The Firm notes that several firms have established AAA-rated entities to house their derivatives activity for precisely this reason.

JPMC Credit Spread

The second major component of the DVA calculation is the Firm's credit spread. An observable market indicator of the Firm's creditworthiness, the credit spread is the sum of (a) the market risk premium (reflecting the market's perception of the Firm's credit risk or the systemic risk) and (2) the real probability of default (the idiosyncratic entityspecific risk factor).

The Firm currently uses counterparty credit spreads from the credit default swap market to calculate the CVA. Credit default swap spreads assume a recovery assumption. Many of the Firm's competitors also use reddi spreads assume the risk associated with counterparty receivables. It is therefore reasonable to assume that market participants would similarly include the Firm's observable credit spread as a key input in derivative valuations.

The Firm's CVA methodology is based on the best evidence of how sophisticated market participants value the credit risk inherent in derivative transactions. The DVA methodology applies the same logic where the Firm is in a payable (versus receivable) position. In order to validate the reasonableness of the methodology and how credit would be considered in the transfer of a liability, the Firm considered recent transactions where the impact of the counterparty's creditworthiness was clearly

considered in the unwind price of a derivative receivable. The Firm believes that where an entity is required to assess its own creditworthiness for liabilities which it records at fair value, an adjustment similar to that applied for counterparty creditworthiness is appropriate and, although based on limited historical evidence, supportable. The Firm believes that this methodology will also be validated by the pricing of future unwinds/assignments and as such, the Firm believes that its calculation of DVA—the product of the ENE, the PPMC credit spread, and a standard recovery rate—produces an exit price consistent with that derived by a market participant,

Other considerations - DVA for structured notes
In order to assess nonperformance risk for structured notes, the Firm leveraged the
current DVA methodology applied to derivatives with limited modification.
Modifications were based on the following:

- Cash flows on derivatives may be either positive (inflows) or negative (outflows), whereas eash flows on a structured note are all outflows. As a result, for structured notes, the equivalent of the ENE (within the derivative calculation) is the libor flat discounted cash flows for the note.
- Due to operational constraints, the DVA methodology for structured notes assumes that there is only one cash outflow which happens at maturity, similar to a zero coupon note.

The DVA methodology for structured notes is based on readily available information (data) for the underlying structured notes. The data required is: 1. fair value of the structured note in its entirety (excluding the impact of the Firm's credit) and 2. the expected maturity of the instrument. The methodology calculates an adjustment to the fair value based upon the Firm's survival probability at the expected maturity date of the instrument. The formula is as follows:

#### DVA = FV * (1-SP(EM,RR))*(1-RR)

- FV: the model-based fair value of the instrument as reported on the Firm's books and records (exclusive of the Firm's credit spread). The fair value represents the expected negative outflows as described below.
- SP(EM,RR) is the Firm's survival probability at the note's expected maturity EM, which is the equivalent of the JPMC credit spread X a recovery rate RR.

The Firm's use of CDS spreads to calculate the DVA for structured notes is principally based on the substance of the instruments being valued. Structured notes can be viewed as funded derivatives or hybrid instruments that are similar in many ways to derivatives. As market participants within the hypothetical wholesale market for structured notes would include other dealers; and as other dealers generally incorporate an adjustment for credit risk into the fair value (exit price) of derivatives using liquid/observable CDS spreads; the Firm has consistently used CDS spreads to value similar risks within the structured note population.

### APPENDIX C

### Nonrecurring Fair Value Measurements

Certain assets, liabilities and unfunded commitments are measured at fair value on a nonrecurring basis; that is, the instruments are not measured at fair value off a nonrecurring basis but are subject to fair value adjustments in certain circumstances (for example, when there is evidence of an impairment or there is a lower of cost or fair value adjustment.)

Examples of instruments that are subject to nonrecurring fair value adjustments include:

- Held-for-sale loans or commitments carried at lower of cost or fair value; see Corporate Accounting Policy #2-0604, "Commercial Lending Facilities."
  Held-for-investment (accrual) loans that are impaired and are written down to fair value based on the fair value of the underlying collateral, or based on an observable market price; see Corporate Accounting Policy #2-0611, "Allowance for Credit Losses."
  Equity investments accounted for either at cost or under the equity method; see Corporate Accounting Policy #2-1005, "Investments in Nonmarketable Equity Securities."
  Goodwill and other intangible assets: see Corporate Accounting Policy #2-

- Securities."
  Goodwill and other intangible assets; see Corporate Accounting Policy #21004, "Intangible Assets and Goodwill."
  Long-lived assets including real estate, fixed assets, assets under operating
  leases, and capitalized software; see Corporate Accounting Policies #s 2-0701
  to 2-0705, "Premises and Equipment."

#### ENDNOTES

- ¹ The fair value option may also be applied to selected unrecognized firm commitments and written loan commitments
- ² An orderly transaction assumes exposure to the market for a period prior to the measurement date to allow for marketing activities that are usual and customary for transactions involving such instruments; it is not a forced transaction (for example, a forced liquidation or distress
- 3 Valuation techniques may include:

The market approach uses prices and other relevant information generated by market transactions involving identical or comparable assets or liabilities and may include use of matrix pricing or market multiples derived from a set of comparables.

Income approach
The income approach uses valuation techniques to convert future amounts (for example, cash flows or earnings) to a single present amount (discounted). Valuation techniques include present value techniques; option pricing models, such as Black-Scholes-Merton formula (a closed-form model) and binomial model (a lattice model) which incorporate present value techniques, and the multi-period excess earnings method, which is used to measure fair value of certain intangible assets.

#### Cost approach

The cost approach is based on the amount that currently would be required to replace the service capacity of an asset (otherwise known as current replacement cost)

- ⁴ The examples provided are generalized across asset classes. Classification within the valuation hierarchy is based on a review of the products and the related facts and circumstances including the significance of any unobservable inputs to the valuation methodology.
- 5 Within this appendix, the term "structured note" is used to refer structured notes, structured repo and structured resales.
- ⁶ Another consideration is that even for an entity with servicing capability, the size of the servicing operations may not provide adequate economies of scale in its own servicing cost structure.
- ⁷ The final ENE is a weighted average of the results from the two default scenarios (a systemic default and an idiosyncratic default).
- 8 In the systemic default scenario it is much less clear that the Firm's counterparties will be able to impose or change collateral agreements in their favor, thus incremental collateral has not been considered.
- Underlying data collected from the businesses include carrying value, expected maturity and Legal Entity (to determine the application of the bank versus holding company spread).

From:

From:
To:
CC:
Sent:
Subject:
Attachments:

Williams, Julie
Curry, Thomas
Nash, Paul
6/29/2012 3:15:58 AM
JPMC Trades and the Volcker Rule Proposal
JPMC Application of Volcker Rule docx

I'm attaching a draft memo that addresses the question you raised re how the Volcker Rule statute and proposed regulations would apply to the JPMC trading activities in the news. I'd welcome talking more about this. My big take-away is that trying to capture what is okay and not okay with detailed regulatory requirements is futile and ineffective. There is a crucial role for supervisory judgments that needs to be escalated.

OCC-SPI-00065656

From: Venkatakrishnan, CS <cs.venkatakrishnan@jpmorgan.com>

Sent:

To:

Venkatakrishnan, CS < LS. Verinadan is money processors.

Mon, 02 Apr 2012 21:53:53 GMT
Hogan, John J. < John J. Hogan@jpmorgan.com>; Goldman, Irvin J
<irvin.j.goldman@jpmchase.com>; Bacon, Ashley < Ashley.Bacon@jpmorgan.com>
Vigneron, Olivier X <olivier.x.vigneron@jpmorgan.com>

CC:

Subject: FW: CIO DAY 1

John/Ashley/inv: Below is an update from Olivier. One source of model difference is that the capital models operate at the level of individual names but the CiO's desk models operate at the level of indices --- so the effect of name concentrations may be captured differently. We are pursuing the impact and further modeling of this. Venkat

From: Vigneron, Olivier X Sent: Monday, April 02, 2012 3:15 PM To: Venkatakrishnan, CS Subject: CIO DAY 1

Hi Venkat,

#### Main takeaways:

- Book comprises index trades only (tranches+ plain indices). All modelling done on the index spread, single names are assumed homogeneous and homogeneous pool model is then used to price tranches and generate index delta. Historical regression also gives them a beta adjusted delta for HY vs IG.
- Key takeaway 1: approximation around the dispersion of single names a key source of discrepancies when submitting portfolio to large single name shocks (as does IRC/CRM). More work to quantify impact of this approximation.
- Key takeaway 2: we need to load the book on a "bottom up" single name modelling approach that can give single name default exposures, as well as a CSW computation that is comparable to the Credit Trading desk for example.

#### Action points:

- To discuss modelling merits of CIO and its feedback on our IRC spread modelling with the model research group (will start with Matthias A. who has been involved by Anil).
- To model in Lynx (tool developed by credit trading team) the CIO portfolio. Preliminary dummy trades loaded. Tool is ring fenced (i.e. only I will have access). However I will check with Javier before loading the real notionals tomorrow that he is fine for me to go ahead with this.

#### Risk update:

On my CSW estimate sent yesterday for March 7th position, I missed the Xover trades, here is the updated estimate when including them:

Estimated All Tranches: -45m CSW Estimated CDX indices: -350m CSW Estimated ITRX indices: -280m CSW

Estimated HY CDX: +400m CSW Estimated FinSub + Xover:

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JPM-CIO 0007924

BANK PROPRIETARY AND/OR TRADE INFORMATION

OCC-SPI-00070715

Total:

-125m CSW long (March 7th)

Face notional by maturity buckets and IG/HY split.

25bn short in 1Y IG 15bn short in 2Y HY, 17bn short 5Y HY 135bn long in 5Y IG

Olivier

From: Venkatakrishnan, CS Sent: 30 March 2012 22:30 To: Vigneron, Olivier X Subject: FW: CIO 10% CSW

Please see below and let's make sure we speak daily on this! Merci, Venkat

From: Hogan, John J. Sent: Friday, March 30, 2012 5:28 PM To: Venkatakrishnan, CS Subject: RE: CIO 10% CSW

OK thanks Venkat—keep me posted please

From: Venkatakrishnan, CS Sent: Friday, March 30, 2012 5:27 PM To: Hogan, John J. Subject: CIO 10% CSW

John: CIO's 10% CSW by my group's model estimate is long 245mm of risk; their own models (run by Welland) quote \$145mm. I don't understand the difference in the models and don't know how good a measure of risk 10% CSW is for their book. But I spoke to Ashley and we agree that 13% CSW has been trending up for CIO, by elther their model or orus. Once Olivier spends time in the portfolio, we should get a better idea. I also sense from speaking with Javier that CIO are worried that they may now have to shed tranche risk in a tight marker. I don't know how real this worry is but I twanted to make you aware. I will get a daily download from Olivier and keep you and Ashley posted (Ashley is out next week). I may myself go to London mid-week. Venkat

Please see the CSW10 results for original CIO portfolio and the split portfolio for March  $21^{st}$ .

Carp Portfolio						
COB	10-Jan-12	18-Jan-12	25-Jan-12	31-Jan-12	28-Feb-12	21-Mar-12
CSW10 (MM)	7,2	73.7	80,6	62.2	150.1	245.2
21-Mar-12	Corp Portfolio	CIO Index Portfolio	Combined Portfolio			
CSW10 (MM)	245.2	252.8	7.6			

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JPM-CIO 0007925

OCC-SPI-00070715

BANK PROPRIETARY AND/OR TRADE INFORMATION

This following is based on the latest split I received from Patrick Hagan this morning.

21-Mar-12	Corp	CIO Index	Combined
	Portfolio	Partfolio	Portfalia
C8W10 (MM)	245,2	213.5	31.7

From: Huang, Yuan X Sent: Friday, March 30, 2012 10:02 AM To: Venkatakrishnan, CS Cz: Jia, Kehl Subject: FW: Mar-21 risk report for CIO and benchmark indices

We have the CSW10 results for a few days (see row 24 "Spread_10PcntUp"). If the date you are interested is not included (ex, Mar-7th), we can generate the results in about half an hour.

Regards,

Yuan

From: Jia, Keith Sent: Thursday, March 29, 2012 11:46 AM To: Huang, Yuan X Cc: Bangia, Anii K Subject: RE: Mar-21 risk report for CIO and benchmark indices

6-day risk report.

From: Huang, Yuan X Sent: Wednesday, March 28, 2012 2:56 PM To: Ila, Kelth Cc: Bangia, Anil K Subject: Mar-21 risk report for CIO and benchmark indices

Confidential Treatment Requested by JPMORGAN CHASE & CO.

JPM-CIO 0007926

BANK PROPRIETARY AND/OR TRADE INFORMATION

OCC-SPI-00070715

# C

# **MEMORANDUM**

Comptroller of the Currency Administrator of National Banks

Washington, DC 20219

To: Patti Spellacy, Congressional Affairs Specialist

From: Michael L. Brosnan, Senior Deputy Comptroller, Large Bank Supervision

Date: **N\A**

Subject: Response to Senate Banking Committee: Large Bank Supervision

#### Purpose

This memo responds to your request for information to complete the hearing record for the United State Senate's Committee on Banking, Housing, and Urban Affairs in regards to the Comptroller's testimony before the committee on June 6, 2012.

#### Response from Large Bank Supervision

Questions for the Honorable Thomas J. Curry, Comptroller of the Currency, Office of the Comptroller of the Currency, from Senator Vitter:

1. At what point in the process of JPMorgan making this trade and the public reporting of the losses did the OCC examiners become aware of this trade?

The OCC knew the bank was planning to modify its position; however, we were not fully aware of the manner in which management chose to do that, or the rapid huild-up in the size or complexity of the bank's CDS positions in the first quarter of 2012. Bank reports did not initially fully identify and convey measurements of the change in risk, and bank executive management did not understand the full impact of the new exposures. Unexpected losses were first identified in late March. The CEO of the CIO explained that these were an anomaly in market prices and that the market would "mean-revert." Profit and loss volatility increased in early April leading up to the "London Whale" article on April 6, 2012. We spoke with bank management various times in April and obtained more detailed information on the position as press reports appeared about its positions in the market. At the time, management indicated the situation was managed and under control. We advised bank management to keep us informed and notify us of

material changes. The OCC began discussing additional follow up actions. From that time forward, the losses became larger and the explanation of market anomaly was less viable. On May 4, management contacted the OCC EIC to notify him of the changed assessment and the magnitude of losses realized during the second half of April.

Does the OCC examine each of these trades as they occur? If not, how does the OCC monitor the risk that the banks it supervises is undertaking?

The OCC does not examine individual trades (or loans) as they occur. Our role is not to approve or manage the bank's risk positions. Rather, we assess the risk management and controls over the bank activities. Large banks assume varied and complex risks that warrant a risk-oriented supervisory approach. Under this approach, examiners focus on a bank's risk appetite and the limits and controls that are designed and implemented to identify and control the risks they assume. The OCC recognizes that banking is a business of taking risks in order to earn a profit. However, when risk is not properly managed, the OCC directs bank management to take corrective action. In all cases, the OCC's primary concern is that the bank operates in a safe and sound manner and maintains capital, reserves and liquidity commensurate with its risk.

Bank management is responsible for managing risks. The OCC focuses on whether a bank has a sound risk management system. A sound program will identify risk, measure risk, monitor risk, and control risk.

Through a combination of discussions with management supported by review of Board and management reports, examination activities are targeted based on assessment of risk. OCC examiners evaluate policies, procedures, activities and performance.

In this case, the bank had an experienced management team with a long history of satisfactory performance. However, a rapid change in risk-taking behavior by the line of business (and risk management and measurement tools that were insufficient for and not consistent with the risk being taken) resulted in failure to identify and manage the higher risk exposure. The CIO activities were not, historically, considered to be high risk and the bank's primary CDS activities as dealer are in the Investment Bank, not the separate and distinct CIO. The CIO's historical mandate had been primarily to manage interest rate and other bank wide risks and invest the excess of deposits over loans in various investment securities. The limit and control infrastructure of the CIO was not built for the type of activity and trading volume in synthetic credit positions that occurred in the first quarter of 2012. What occurred was a rapid change in the risk behavior and risk-taking that the existing control infrastructure was not able to identify or manage.

3. How many trades does JPMorgan have of this magnitude and what are the possibilities, given Europe and a softening domestic economy that a number of these bets go bad at the same time?

Trading in these instruments historically occurs primarily in the Investment Bank, where the controls are appropriate for the risk and activity. We do not believe that other such significant positions exist in the company. Stress testing for a variety of stress scenarios occurs regularly, and both European and domestic considerations are among those analyzed.

# Questions for the Honorable Thomas J. Curry, Comptroller of the Currency, Office of the Comptroller of the Currency, from Ranking Member Shelby:

- In the wake of the JPMorgan loss there has been a lot of discussion about hedging
  activities. Many financial institutions develop hedging strategies with interest rate and
  credit derivatives to hedge volatility.
  - a. What is the oversight process for banks who hedge risk and how are these hedges examined?

As banking is a risk taking business, we fully expect that banks will take actions to reduce or eliminate unwanted risk exposures. Hedging actions can take place on a transaction-by-transaction hasis, or on a portfolio basis. Transaction hedging is easier to define and understand as one can see the risk additive transactions being offset by risk reduction transactions.

The concept is the same for portfolio hedging, but the measurement of the correlation between the portfolio of risk and the hedge is more difficult to document, as the hedging instrument is not always the specific offset to the underlying risk. Similar to transaction hedging, we look to understand the nature of the portfolio of risk, how its value changes with price or rate changes. We then look to see how the hedge performs in similar situations. We expect bank reports to document and support a strong negative correlation between the risk position and the hedge.

- b. How do you determine whether a particular activity is or is not really "hedging"?
  - A hedge position must be offsetting some existing risk exposure. Bank risk reports need to identify the underlying position and document its sensitivity to price or rate movements.
- Given the complexities identified during the hearing with determining whether or not a trade is a hedge or a proprietary trade, it appears the real issue is whether a trade threatens the safety and soundness of the bank.
  - a. How do you determine whether the trade presents risks to the safety and soundness of a bank?

A trade (or trading position consisting of multiple trades) would present risks to the safety and soundness of a bank if the loss exposure materially impacted the earnings and capital of the bank. We evaluate risk measures, position reports, and limits (including VAR and others established to guard against illiquid or concentrated positions) to ensure that the risk appetite is reasonable and would not pose a material threat to earnings or capital. Controls should also be in place and be tested regularly to ensure that risk-takers operate within their limits.

Based on the information available at this time, JPMC's earnings are capable of absorbing the potential losses from its trading positions with no adverse impact to capital. The potential losses do not pose a threat to the solvency of the bank.

b. If a trade does present such risks, what authority do you have to stop or prevent the trade from occurring?

The OCC has a wide-range of supervisory tools that it can use to address an unsafe and unsound position that threatens the bank including a temporary cease and desist order. A temporary Cease and Desist Order is an interim order issued by the OCC pursuant to its authority under 12 USC 1818(c) and is used to impose measures that are needed immediately pending resolution of a final Cease and Desist Order. Such orders are typically used only when immediately necessary to protect the bank against ongoing or expected harm. A Temporary Cease and Desist Order may be challenged in U.S. district court within 10 days of issuance, but is effective upon issuance and remains effective unless overturned by the court or until a final order is in place.

# Ouestions for The Honorable Thomas J. Curry, Comptroller of the Currency, Office of the Comptroller of the Currency, from Senator Brown:

During the June  $6^{th}$  hearing, Mr. Gruenberg agreed that "historically, including to the present day, the biggest risk of banking is the lending activity that is inherent to the banking process."

In testimony before the Subcommittee on Financial Institutions and Consumer Protection on May 9th, the former Chief Economist of the Senate Committee on Banking, Housing, and Urban Affairs stated:

"In a remarkably understated 2007 annual inspection report on Citigroup, the Federal Reserve Bank of New York observed that '[m]anagement did not properly identify and assess its subprime risk in the CDO trading books, leading to significant losses. Serious deficiencies in risk management and controls were identified in the management of Super Senior CDO positions and other subprime-related traded credit products.' By the end of 2008 Citigroup had written off \$38.8 billion related to these positions and to ABS and CDO securities it held in anticipation of constructing additional CDOs."

Testimony of Marc Jarsulic, Chief Economist, Better Markets, Inc., before the Senate Committee on Banking Housing and Urban Affairs Subcommittee on Financial Institutions and Consumer Protection, "Is Simpler Better? Limiting Federal Support for Financial Institutions" 9, May 9, 2012.

According to accounts of the hearings held by the Financial Crisis Inquiry Commission, two witnesses agreed that CDOs were responsible for Citigroup's financial difficulties:

"[Former Citigroup chief executive Charles] Prince ultimately blamed much of Citi's problems on CDOs, which he said were complex and entirely misunderstood. He said the company, its risk officers, regulators and credit rating agencies believed CDOs were low-risk activities. As it turned out, they resulted in \$30 billion worth of losses...

"[Former Comptroller of the Currency John] Dugan, too, put much of the blame on CDOs, partly as a way of defending his own agency. He said the bank, which the Office of the Comptroller of the Currency oversaw, did not damage the holding company, while Citi's securities broker-dealers, which managed the CDOs and were overseen by the Securities and Exchange Commission, were at fault.

'The overwhelming majority of Citi's mortgage problems did not arise from mortgages originated by Citibank,' Dugan said. 'Instead, the huge mortgage losses arose primarily from the collateralized debt obligations structured by Citigroup's securities broker-dealer with mortgages purchased from third parties.'"

Cheyenne Hopkins, No One Was Sleeping as Citi Slipped, Am. BANKER, Apr. 8, 2010.

Do you agree with the New York Fed, the former Comptroller of the Currency, the former Chief Economist of the Senate Banking Committee, and the former CEO of Citigroup that CDOs were a substantial cause of Citigroup's financial difficulties in 2008, resulting in significant support from the federal government, including capital injections from the Treasury Department, debt guarantees from the FDIC, and loans from the Federal Reserve?

Yes. Excessive risk-taking in sub-prime collateralized debt obligations (CDOs) was a substantial cause of Citigroup's financial difficulties in 2008.

# Questions for the Honorable Thomas J. Curry, Comptroller of the Currency, Office of the Comptroller of the Currency, from Chairman Johnson:

1. Mr. Curry, in response to my question during the hearing about the risk management of JP Morgan Chase & Co. (JPMorgan), you stated that the Office of the Comptroller of the Currency (OCC) is reviewing "what exactly transpired with the trading operation within the CIO's office, and...looking to make sure that there were appropriate limits and controls on those activities in that area and how they compared to other areas within the organization." Two weeks later, you stated that "we do believe, as a preliminary matter, that there are apparent serious risk management weaknesses or failures at the bank. We're attempting...to continue to examine the root causes for those failures and to determine whether or not there are other weaknesses in the bank besides the CIO."

Do you have any further preliminary conclusions on your review of the hank's risk management?

What gaps have you identified as supervisors?

Please provide additional detail about what you meant by "serious risk management weaknesses or failures at the bank."

How many staff members are ordinarily involved in supervising JPMorgan, especially with regard to the company's risk management, and how many additional staff have you dedicated to this review?

The OCC's supervisory team includes approximately 65 full time onsite examiners who are responsible for reviewing nearly all facets of the bank's activities and operations, including commercial and retail credit, mortgage banking, trading and other capital markets activities, asset liability management, bank technology and other aspects of operational risk, audit and internal controls, and compliance with the Bank Secreey Act, anti-money laundering laws, and the Community Reinvestment Act. These onsite examiners are supported by additional subject matter experts from across the OCC. All these examiners are essentially involved in supervising the risk management practices of JPMorgan as risk management systems are in place throughout the bank's operations to identify, measure, monitor, and control risk.

We have one dedicated examiner who directly oversees the CIO with support of a team of capital markets specialists representing 8 FTEs to review specific capital markets areas depending on the topic. We have added staff on assignment from our London team, our Risk Analysis Division (quantitative experts), as well as received assistance from our Office of Chief Accountant.

When do you expect to complete your review? Do you have any further preliminary conclusions on your review of the bank's risk management? What gaps have you identified as supervisors?

Preliminary conclusions and gaps identified are as follows, although we continue to assess this matter:

- Oversight of the Chief Investment Office was unsatisfactory. The board and
  management failed to ensure that an adequate risk management and control structure
  was in place. The control infrastructure was inadequately staffed and supported. The
  Board and executive management were unaware of the change in risk in the synthetic
  credit portfolio.
- Traders built significant risk positions in the synthetic credit book over the course of
  the first quarter 2012, with most risk assumed in mid-to-late March. The book
  hecame very large, complex, illiquid, and difficult to manage. Risk will remain
  elevated for an extended period as traders work to reduce unwanted exposures.
- Model control practices in CIO were unsatisfactory. The VAR model was poorly
  implemented and had not received final approval. Valuation control practices were
  unsatisfactory. Traders intentionally misstated closing prices to cushion losses mid
  month and month end control processes failed to identify mismarked position.
- Risk Management was ineffective and irrelevant. Limits were inadequate for the nature of the risk. Business level limits were deemed inadequate by management and, in effect, ignored.
- Audit did not identify the lack of relevant risk limits nor the rapid increase in risk. A
  material control deficiency was reported for the first quarter prompting a restatement
  of earnings.
- The company is implementing corrective actions. An entirely new CIO senior
  management group is in place and is undertaking an end-to-end review of all CIO
  processes and practices. Firm wide risk management and processes are also heing
  evaluated and new committees and processes are being put in place.

Please provide additional detail about what you meant by "serious risk management weaknesses or failures at the bank."

Serious risk management weaknesses or failures at the bank that we had identified at the time of the hearing include, for example:

The rapid build-up of CDS positions in the first quarter of 2012 and bank reports
that did not fully describe the change in risk resulted in bank management not
understanding the full impact of the new exposures.

- The first line of defense failed given the rapid change in the risk behavior and risk-taking by the line of business resulting in the inability to identify and manage the higher risk exposure.
- The second line of defense, independent Risk Management, was aware of the strategy being adopted and failed to ensure reporting that captured the risk these positions and establish appropriate risk limits.
- The third line of defense, internal audit, failed to identify the rapidly growing
  positions being taken in the first quarter that resulted in the losses during its first
  quarter review.
- The unanticipated risk exposure cast doubt on the effectiveness of the bank's model validation process and the independent review process, specifically its updated Value at Risk (VAR) model. However, the VAR model is only one measure of risk and it was not designed to control an active trading desk or the positions undertaken by the CIO in 2012. Separate and distinct limits are needed to identify, measure, report, and control other risks and these limits were inappropriate for these activities. The limit and control infrastructure of the CIO was not built for the type of activity and trading volume in synthetic credit positions that occurred in the first quarter of 2012.

How many staff members are ordinarily involved in supervising JPMorgan, especially with regard to the company's risk management, and how many additional staff have you dedicated to this review?

The OCC's supervisory team includes approximately 65 full time onsite examiners who are responsible for reviewing nearly all facets of the bank's activities and operations, including commercial and retail credit, mortgage banking, trading and other capital markets activities, asset liability management, bank technology and other aspects of operational risk, audit and internal controls, and compliance with the Bank Secreey Act, anti-money laundering laws, and the Community Reinvestment Act. These onsite examiners are supported by additional subject matter experts from across the OCC. All these examiners are essentially involved in supervising the risk management practices of JPMorgan as risk management systems are in place throughout the bank's operations to identify, measure, monitor, and control risk.

We have one dedicated examiner who directly oversees the CIO with support of a team of capital markets specialists representing 8 FTEs to review specific capital markets areas depending on the topic. We have added staff on assignment from our London team, our Risk Analysis Division (quantitative experts), as well as received assistance from our Office of Chief Accountant.

When do you expect to complete your review?

We expect to have largely completed our review by early August, though we also expect to still have follow-up on certain issues beyond that timeframe.

In testimony, you stated that "in hindsight, if the reporting were more robust or granular, we believe we may have had an inkling of the size and potential complexity and risk of the position." You also stated before this Committee, that the "concentrated nature of the trading and the illiquidity of [the trading] are red flags that are clearly apparent now." What requirements or guidelines does the OCC have for granularity of reporting, and what does the OCC plan to require in the future as a result of these events? What role do concentrations and liquidity of positions play in your assessment of trading risks, and how will the OCC ensure that it can capture such red flags in its supervision?

What requirements or guidelines does the OCC have for granularity of reporting, and what does the OCC plan to require in the future as a result of these events?

We expect risk reports to accurately present the nature and level(s) of risk taken and compliance with approved limits.

What role do concentrations and liquidity of positions play in your assessment of trading risks, and how will the OCC ensure that it can capture such red flags in its supervision?

We consider both concentrations and position liquidity when we assess trading activities. We expect that risk limits and controls fully address the nature of risks being undertaken. In instances where there is limited market liquidity, or excessive concentrations, we expect limits to address the risk and that appropriate valuation adjustments are made.

4. You indicated that because you may not have been given adequate or accurate information by bank management, your supervisory abilities were limited, and that "quality supervision is dependent on the quality of information available to examiners." What is the role of institution-generated information in your agency's assessment of an institution's risk management? Please describe the process and importance of how your agency independently verifies that any information a company provides is accurate.

The role of institution-generated information in the OCC's assessment is critical in our assessment of the bank's risk profile and risk management processes. We assess management's process to develop and maintain management information systems (MIS) that will ensure information is timely, accurate, and pertinent. This assessment not only includes the processes to develop and test new MIS, but also the reliability of this information through the bank's quality assurance process at the line of business level and the independent reviews performed by the bank's Risk Management and audit functions. We check to confirm that the scope and frequency of these independent reviews include verification procedures for the quality of MIS. In addition, the examiners through

ongoing supervision and target examinations perform transactional testing that confirms the accuracy of critical MIS relied upon by bank management and the regulators.

Clearly there were fails in all these aspects of financial and risk reporting and control. There should have been on-going review by the bank's risk management and audit functions that at least flagged this area for higher-level attention as it changed during the first quarter.

You stated before this Committee that "it does not appear that the [OCC] met the heightened expectations" of "strong risk management and audit." Please explain what these heightened expectations are, and what steps you are taking to ensure the OCC meets them.

The comptroller's intent was that *the bank* did not meet the OCC's heightened expectations for strong risk management and audit functions. The OCC set higher expectations for our large banks as part of our lessons learned from the financial crisis. The comptroller described the OCC's beightened expectations in his testimony before the U.S. Senate's Committee on Banking, Housing, and Urban Affairs on June 6, 2012, including comments on strong risk management and audit. We have communicated the importance of meeting these expectations to our large banks and their Boards of Directors. We are monitoring, evaluating, and discussing with bank management the Directors. We are monitoring, evaluating, and discussing with bank handsgement the bank's progress in working towards the beightened expectations and we use the following rating table and scale each quarter:

1.	Board Willingness to Provide Credible Challenge
2.	Talent Management and Compensation
3.	Risk Appetite - Defining and Communicating Across the Company
4.	a. Development and Maintenance of Strong Audit Function
	b. Development and Maintenance of Strong Risk Management Function
5.	Sanctity of the National Bank Charter

Rating scale (A-D) for each of the five heightened expectations.

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- "A" indicates the expectation is met.
  "B" indicates the expectation is generally met, or is anticipated being met within 12 months
- "C" indicates material steps remain to meet expectation but management has demonstrated a willingness and ability to meet the expectation. Completion expected to be greater than 12 months.
- "D" indicates material steps remain to meet expectation and management is either unwilling or unable to meet the expectation in the near- to medium-term.

The OCC will use its supervisory tools including informal or formal enforcement actions to ensure each large bank achieves a strong risk management and audit function.

5. At the Committee's hearing where Jamie Dimon, Chairman of the Board, President and Chief Executive Officer of JPMorgan testified, Mr. Dimon indicated that while the company has a compensation clawback policy in place, that authority has not been exercised. For the largest national banks the OCC regulates, are you aware of any bank exercising a clawback of compensation when major mistakes are made? Is it important for Boards of Directors of national banks to utilize their clawback authority to deter other employees from making the same mistakes, and correct some of the misaligned pay incentives we saw leading up to the recent financial crisis?

We are not aware of the use of clawbacks to date in large national banks. As conveyed in the Interagency Guidance on Sound Incentive Compensation Policies (OCC Bulletin 2010-24), the OCC believes Boards of Directors should use clawback authority under appropriate circumstances. IPMC notified us and subsequently has announced that it plans to clawback compensation from the individuals directly responsible for the CIO losses. The bank's investigation into the matters is ongoing and additional clawbacks may be coming. The OCC will review these decisions to ensure they are appropriate.

From: To: CC: Wong, Elwyn Waterhouse, Scott Crumlish, Fred; Hohl, James 5/11/2012 3:16:38 PM

Sent: Subject:

CDX IG Series 18 vs CDX HY vs CDX IG 9

Hi Scott,

#### Per your request:

- Based on my understanding, CIO was trying to pare down their long protection (short credit risk) in HY. To do so, they would sell protection (long credit risk)

  They were of the opinion that HY was cheap and IG was rich. So they took the basis risk by continuing to be
- They were of the opinion that HY was cheap and IG was rich. So they took the basis risk by continuing to be long HY protection and short IG protection as a proxy.
  - JPMorgan Research has the same opinion even on today's research piece:
- They went short protection on two things: IG series 9 and "IG others" (latter as described in their presentation to you)
- There are two new series every year. The current series number is 18 for both IG and HY. So IG series 9 was first traded 4 ½ yrs ago in Sept 2007. These are static indices in that if names defaulted and for whatever reason IDSA eligible dealer poll decided to include or exclude certain names in the next series, that composition of constituents varies from series to series. CIO said IG Series 9 had a few fallen angels which served as a good proxy for reducing their HY protection.
- IG series 9 would not be traded if not for the fact that this was the on-the-run series right in the middle of the financial crisis and so to this day people trade it for legitimate hedging of legacy positions. But clearly it is less liquid than Series 18
- The matter is further complicated by the only people willing to take the opposite side to buy protection referencing IG series 9 were hedge funds. They would only do it on forward basis: something like 9 months forward for 1 year (ending in 1 yr 9 months). The rationale for this is economy is zig-zagging right now with no imminent default but default will pick up further down the road when things slow down again. So an off-the-run series, a known position and a forward, somewhat "bespoke" trade, did them in.

Irrespective, here is a good general measure:

CDX IG Series 18 trades on a spread basis with a 100 bp coupon . CDX HY series 18 trades on a price basis with a 500 bp coupon. Converting the latter back to yield:

IG has blown out more than HY. If this relationship holds for JPM's long protection in HY and short protection in IG, they lose money. 3/27 was the first day Series 18 traded. The relative performance could be more marked going further back when these trades were put on.

(Note: IG series 9 started in the days before the introduction of a coupon onto the index. So it was and is trading on a no coupon, spread basis.)

I will see if I can find anything on liquidity or performance further back.

Elwyn

OCC-SPI-00081266

From:

Wong, Elwyn-

To: CC: Sent:

Wong, EMVII-Kamath, Jairam Crumlish, Fred; Kirk, Milke; Waterhouse, Scott; Hohl, James 6/8/2012 1:53:20 PM FW: Weekly Capital and RWA Schedule Capital & LTE Weekly 6-01-12.pdf

Subject: Attachments:

	May 29th
VaR (Reg)	17
Stress VaR	37
IRC	24
CRM	18
Mkt Risk	96

#### Hi Jairam,

The above report has (new) carve-out for the Credit Derivative Portfolio. It looks like it is a new thing and in the footnotes it said it is subject to revision anyway.

Do you know if this is something we could have gotten in the past? Reason I ask is because in the SEC briefing, CIO was known to be struggling to understand why RWA went up despite their risk "reducing" strategy and Verkat had been asked to help even as early as February.

Yet... they were piling on trades particularly in Feb and Mar:

I retrieved from the last page of Daily Firmwide VaR Report (CIO section in Excel)

CS01 excession (granted un-beta adjusted CS01) -- a Level 2 limit which requires Ina Drew's and Irv Goldman's

CSUT excession (graines at 122) signoff Jan 31: 184%, in excess for 17 days Feb 29: 507%, in excess for 37 days Mar 30: 937%, in excess for 59 days

Limit is \$5mil. Jan avg usage is \$8.9 mil, Feb is \$22 mil, Mar is \$38 mil. It's a monotonic increase

Peter Weiland will be meeting us today at 2:00 pm and I will pose that question. Hogan already said as it was not Level 1, he did not see it. He agreed it was a serious breakdown.

Elwyn

Elwyn

From: Waterhouse, Scott Sent: Thursday, June 07, 2012 12:44 PM To: Crumlish, Fred; Wong, Elwyn; Kirk, Mike; Hohl, James Subject: PW: Weekly Capital and RWA Schedule

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OCC-SPI-00085027

From: Gillis, David KF [mailto:david.kf.gillis@jprnchase.com]
Sent: Thursday, June 07, 2012 11:38 AM
To Johnne.Dobbeck@ny.frb.org; 'Needham, Catherine'; 'Arya, Om P.'; Waterhouse, Scott; Waterhouse (Regulator), Scott X
Cc: Genova, Dlane M.; Hill, Erin; Gunselman, Gregg B
Subject: Weekly Capital and RWA Schedule

#### Confidential

As requested, attached please find the JPMC Weekly Capital Update, Weekly RWA Update, and Spot Assets by LOB, dated 6/1/2012. These materials are subject to continuing internal review. I will send you an updated weekly report tomorrow and each Friday afternoon thereafter.

Please contact me at 212-648-0362 with any questions. Thank you.

David Gillis Reducted by the Permanent Subcommittee on Investigation David K.F. Gillis

Managing Director & Associate General Counsel

J.P. Morgan

270 Park Avenue, 38th FL. New York, New York 10017 david.kf.gillis/@jpmorgan.com (Tel: 212.648,0362 ) Cell: 2 Fax: 917.463.0170

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# SYNTHETIC CREDIT DAILY RISK REPORT

May 24, 2012

J.P.Morgan

BANK PROPRIETARY AND/OR TRADE INFORMATION

OCC-SPI-00088644

P&L (\$000	s)		
	Estimate	Actual	Actual vs. Estimate
5/24/2012	(\$82,962)	Actual	Casinale
5/23/2012	(\$119,427)	(\$116,681)	\$2,746

			Portfalio	Net	Since	% Chg.
	CSW10%	Trading	lengthening	change	30-Apr	30-Apr
Current ¹	(170.5)	5.2	N/A	5.2	122.2	(41.7%)
23May	(175.6)	(16.8)	(16.6)	(33.5)	117.0	(40.0%)
30-Abr	(292.6)	261.9	(139.7)	122.2	0.0	

Collateral (\$mm)			
	Description	Current	Prior day
Total (CIO - counterparty	)	-\$29	-\$48
Largest counterparty	MS	17	13
Largest instrument	CDX IG S09 05Y 00-03	27	18

Note: negative/positive collateral position denotes lower/higher valuation relative to counterparty

- Bought protection €1,400mm iTraxx Main S17 5y # Bought protection \$1,250mm CDX IG S18 5y
- Sold protection \$495mm CDX HY S18 5y

# Summary commentary

- स्र New trades decreased risk in 10%CSW terms by \$5.2mm (new trade activity only, does not include changes due to market moves)

  P&L \$(83)mm driven by:
- Widening of S9 in US and Europe \$(69)mm
- Widening of CDX IG 9 12/17 vs. OTR IG S18 5y

  Widening of iTraxx Main S9 vs. OTR S17 5y

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		5Y eqv.		Beta Adj.		C	oD Chang		Ch	ange since 4/30/1	2 .
(\$mm)	Notional	OTR Eqv	CS01	CS01	10% CSW	5yr eqv.	CS01	CSW10%	CS01	CSW10%	Beta
CDXIG	46,315	59,566	(28.7)	(32.6)	(495)	(750)	0.4	4.3	9.9	11,9	1.00
CDXHY	(275)	(20,626)	7.0	38.5	443	584	(0.2)	(13.2)	(1.4)	(18.1)	5.50
ITRAXX MN	85,647	25,901	(10.8)	(16.2)	(280)	(1,762)	0.8	14.1	12.8	127.6	1.50
ITRÁXX XO	(8,437)	(8,052)	2.7	15.0	185	0	0.0	0.0	(0.4)	(1.5)	5.50
ITRAXX FINSUB	(2,816)	358	(0.2)	(0.7)	(11)	0	0.0	0.0	0.4	13.4	4.50
Direct Single Name	800	531	(0.3)	(1.7)	(21)	531	(0.3)	(20.6)	(0.3)	(20.6)	6.92
Total	122,930	57,249	(29.9)	2.9	(170)	(1,397)	0.7	(15.4)	21.4	122.1	
1 CDX IG 509 05Y uses a bete of 0.5											

¹ Table shown includes notional and risk factors for both indices and tranches combined Note: Positive/Negative notional data denotes long/short risk, Positive/Negative CSO1 denotes short/long risk Detas are computed off on the run IO (318)

Risk factor	s¹ (cob 5/24	/12)							
				Risk Factors					
	Underlying	Directionality	Curve	OTR/OFR	HG/HY	Correlation (\$	(10% change)		
	CS01 (\$mm)	CS01 (\$mm)	CS01 (\$mm)	CS01 (\$mm)	CS01 (\$mm)	Super Senior	Equity/Mezz		
CDX IG	(28.7)	3.9	7.8	(22.4)		(123.8)	115.4		***************************************
itraxx Main	(10.8)		5.0	(13.9)	(10.8)	(132.5)	(33.2)		Beta
CDX HY	7.0		(0.4)	(0.0)	7.0	7.5	38.7	CDX HY/IG	6.40
ltraxx XO	2.7		_		2.7		***	Itraxx XO/Main	3.80
ltraxx Finsub	(0.2)		0.3	-	(0.2)	-			
Subtotal	(29.9)	3,9	12.7	(36.3)	(1.2)	(248.8)	120.9		

				Spre	ead		Basis to T	to Theoretical (bps spd)			
		5/24/12	5/23/12	5/22/12	4/30/12	3/30/12	5/23/12	1w	1п		
CDXIG	S18 5 yr	117.5	118.5	118.5	94.7	91.5	(4.1)	(3.9)	1.7		
	S9 5yr	81.0	86.4	86.4	68.1	70.8	(6.1)	3.0	9.5		
	59 10yr	159.5	159.2	158.2	119.4	113.1	(1.9)	4.3	13.7		
CDXHY	S18 5 yr	670.0	676.6	674.8	579.7	578.9	25.8	(21.8)	28.5		
iTraxx Main	S17 5yr	174.5	181.0	171.5	140.5	125.0	7.6	0.4	13.9		
	S9 10yr	211.5	218.0	209.0	170.5	151.0	(1.9)	0.5	16.2		
iTraxx Xover	S17 5yr	717.5	743.0	710,0	650,0	613,0	31.9	(0.7)	21.7		

Source: Market data - J.P. Morgan Investment Bank (as of New York close)  2 Estimated based on end of day levels, may fluctuate based on end-of-day trading and volatility INTERNAL USE ONLY 2

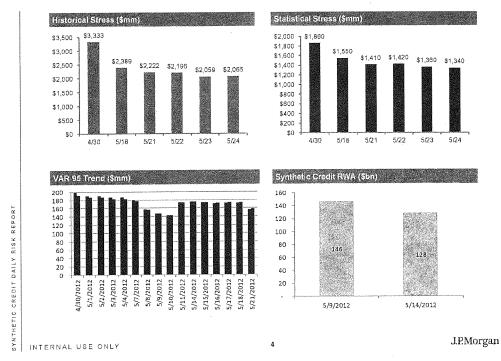
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# Notional overview

	1	Notional (	Smm) (co	b 5/24/12	3)		Notional (	inim) (Go	ь 4/36/1	2)		Change		
	CDX IG Vs. HY	IG 9 Other IG High Yield	Notional 48,460 4,155 (18,044)				IG 9 Other IG High Yield	Notional 82,460 (14,500) (20,609)				IG 9 Other IG High Yield	Notional (34,000) 18,655 2,565	
	iTraxx Main vs. Crossover	iTraxx Main iTraxx XO	Notional 31,663 (6,704)				iTraxx Main iTraxx Cross	54	tional ,948 ,864)	at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10 at 10		iTraxx Main iTraxx XO	Notional (23,286) 160	
	Tranche positions	IG9 IG95yr IG HY ITraxx	Total (5,940) (22,400) (360) 17,769 36,395	Equity (1,355) (3,570) (195) 4,291 (3,230)	Mezz (33,020) (18,560) (265) 4,183 440	Senior 28,435 (270) 100 9,295 39,165	IG 9 IG 9 5 yr IG HY ITraxx	Total (5,940) (22,400) (340) 17,789 36,395		Mezz (33,020) (18,560) (245) 4,203 440	Senior 28,435 (270) 100 9,295 39,185	IG 9 /G 9 5 yr IG HY iTraxx	Total 0 0 (20) (20) 0	
RISK REPORT	Other positions	FinSub LCDX	Long 2,411 4,075	Short (4,649) (1,688)			FinSub LCDX	3		Short 4,649) 1,688)		FinSub LCDX	Long (650) 0	Short 0 0
C CREDIT DAILY	Memo: IQ 9 exposure (by maturity)	IG S09 05Y IG S09 07Y IG S09 10Y IG9	Notional (32,723) 34,193 46,989 48,460				CDXIG S09 CDXIG S09 CDXIG S09 IG9	05Y (32 07Y 34 10Y 80	,723) ,193 ,989			IG S09 05Y IG S09 07Y IG S09 10Y IG9	Notional 0 0 (34,000) (34,000)	
NTHETIC	Note: Positive/Negat	ive notional da	ta denotes lo	ng/short ri	sk							l	IPMor	ran

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# Synthetic credit book - key metrics



OCC-SPI-00088644

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- m Pricing to equilibrium: In addition to below risk factors, some indices will lose value as they move from richness to fairness
- Synthetic credit book exposed to six risk factors Each factor represents a directional exposure
- In the short-to-medium term, these exposures can be partially mitigated But not eliminated

		5/24/12	4/30/12
Risk Factor	Description of when position loses money	Historical worst single day	Historical worst single day
Credit spread widening (Directionality)	If credit spreads widen across markets	\$296mm	\$3,200mm
2. Maturity mismatch (Curve)	If credit spreads of long-maturity positions get wider relative to short-maturity positions	0mm	89mm
3. High Yield vs. Investment Grade	If high yield positions outperform investment grade positions relative to their portfolio weighting	2,072mm	1,441mm
4. Illiquidity of older Indices / Tranches (On-the-Run vs. Off-the-Run)	If credit spreads of the older index (the "off-the-run" index) widen relative to more-recently issued indices (the more "on the run" indices)	43mm	1,085mm
5. "Super senior" debt vs. "equity" positions (Tranches)	If there is an increase in the correlation implied between defaults among names within the tranches	505mm	505mm
5. Default risk (Risk on individual names)	If credit events happen to companies for which we have "sold protection"	NA	NA
	Portfolio worst day	\$2,065mm	\$3,333mm
	Sum of worst case	\$2,915mm	\$6,320mm

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SYNTHETIC CREDIT DAILY RISK REPORT

- # Pricing to equilibrium: In addition to below risk factors, some indices will lose value as they move from richness to fairness
- Synthetic credit book exposed to six risk factors Each factor represents a directional exposure
- In the short-to-medium term, these exposures can be partially mitigated But not eliminated

		5/24/12	4/30/12
Risk Factor	Description of when position loses money	95%ile loss potential¹	95%ile loss potential¹
Credit spread widening (Directionality)	a If credit spreads widen across markets	\$170mm	\$710mm
2. Maturity mismatch (Curve)	If credit spreads of long-maturity positions get wider relative to short-maturity positions	140mm	160mm
3. High Yield vs. Investment Grade	If high yield positions outperform investment grade positions relative to their portfolio weighting	1,080mm	810mm
4. Illiquidity of older Indices / Tranches (On-the-Run vs. Off-the-Run)	If credit spreads of the older index (the "off-the-run" index) widen relative to more-recently issued indices (the more "on the run" indices)	500mm	1,400mm
5. "Super senior" debt vs. "equity" positions (Tranches)	If there is an increase in the correlation implied between defaults among names within the tranches	490mm	490mm
6. Default risk (Risk on individual names)	If credit events happen to companies for which we have     "sold protection"	291mm	291 mm
	Est. total diversified 95% loss potential	\$1,340mm	\$1,860mm

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# Synthetic Credit risk factors details

Sensitivity analysis		
Scenario	Sigma L	oss (\$mm)
90.0% percentile	1.28	1,100
95.0% percentile	1.64	1,340
97.5% percentile	1.96	1,560
99.9% percentile	3.09	2,360
Downside Case A ¹	N/A	2,671
Downside Case B ²	N/A	4,415

#### Assumptions behind analysis

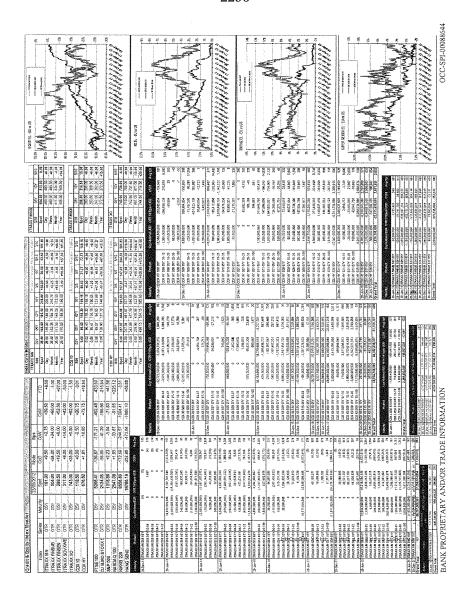
- 🗷 Credit spread widening (Directionality) Net directional loss estimate assumes correlation based on 1yr data
- m Maturity mismatch (Curve)
- 🗷 Volatility measured as relative movement of longer maturity spread vs. shorter maturity spread adjusted for overall drift
- m Combined across asset classes assuming zero correlation
- B High Yield vs. Investment Grade
- a Volatility based on relative spread movement netted for overall directionality
- # Assumes zero correlation between these differences for US and Europe
- m Illiquidity of older Indices/Tranches (On-the-run/Off-the run risk)
- s Series 9 is assumed as the off-the-run position
- x Risks are combined assuming zero correlation
- अ "Super senior" debt vs. "equity" positions (Tranches) Risk factor based on extreme movements of correlation as seen during the credit crisis
- Default risk (Risk on individual names) Exposure based on comprehensive simulation of default risk using capital model
- m Diversified sum All above risk measures combined assuming zero correlation
- ¹ Diversified sum of 95.0% percentile; ² Diversified sum of 99.9% percentile

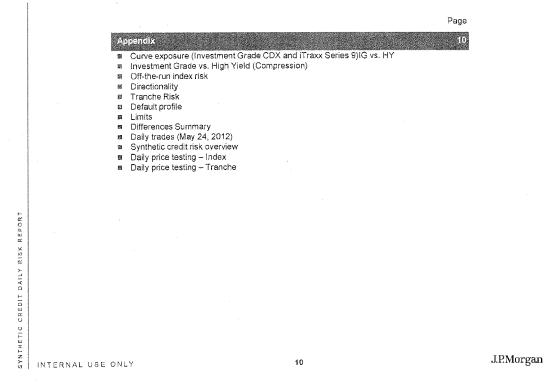
1 Diversified sum of 95.0% percentile; 2 Diversified sum of 99.9% percentile; 1NTERNAL USE ONLY

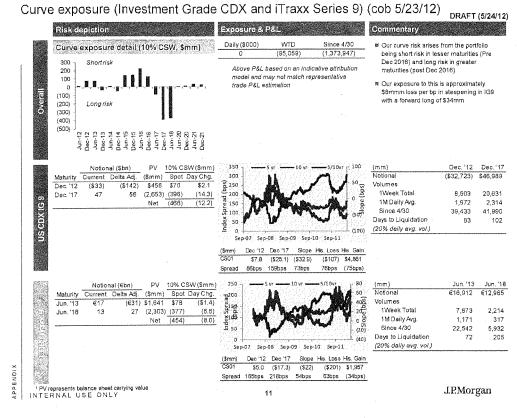
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Index		OCCUPATION OF			Try ries Sollott. WE'De auto	OFFICE	rg Fin Selfolf WEbelaulier WEContlaty (190		Equity Delta Equity Genma Equity Sega	/Genmal Equi	P Nega	Synthetic Cred	Synthelic Oradit:				
UKICOK UKICOK	-22,297	261,859,933	-343,535	-2,402,216	-5,735,123	3,668,752	215,663	-11,994				o pipeus	Long Glean Jaw - Journal Cale (**1.5mm) / - 1.5mm (Jrs.Cay) (*15mm) Gredi Crisis / Large Fistener Selboff \$-1.79bn (-145mm)	tener SelFoff	3-1,79bn (-14	n iumocara (- Smm)	(alum)
000		80,315,937,567	489,005,248	-2,371,150,190			3,632,608	670, 156				· Indices	Indices 5% wider across regions; HY & XO compressing , and off-the-run	regions; HY &	XO compres	solng, and off	the-run
AXX MA	2 2 48 474	27,563,151,688	195,054,678	-1,542,434,071 840,270,034	1,006,787,504	110 213 772	20,824,128	280,210				59 curve Secured Credit	59 curves sleeper in both regions Secured Credit MITM & AFR)	th regions			
TRAXX FINGUE	162,741	357,569,046	-11,100,100	-48,063,500		87,572,436	a	4,036				Long cre	Long oredit risk -519mm 10%CSW; -31,3mm CS01	10%CSW; -3	1.3mm C501		
XFMSEN	278,332	-026,786,179 -036,786,179	8,362,879	39,809,736	14,584,732	14,015,181	5.6	. 10,559				· Large Fit	Large Frantener sell-off stress scenario loss -2,42bb	aress scenario	loss -2.42bn		
Shiple Names	-251,096	900,000,000	-20,582,334	-402,911,669	119,702,22A	-\$44,856,193		6	_			(1) Risk does not	(1) Risk does not reflect the option on IG.9.10yvs. IG.18.5Y sold to client. Option grants client	on 10.9.10yvs. h	3.18.5Y sold to	client. Option g	ants client
dages	0	0	0	0	0	0	0	0	850,979	74,908	9,634	the right, but hat CDX IG 18 5Y pn	abligation, to sell , absolors from , PM	The spread on	IX IG S 10Y pro the CDX IG9 val	tection and to by I be 49 bos abo	y \$17bh of n the bid
Synthetic Total	1773.996	39,443,612,101	-54.921.631	.774,609,153		200,000,100	11,312,121	100,000	200,010	14,300		tevel of the sprea	d on the CDX (G1	8 at the time of a	xercise. The op	Bon is an Arreita	notice ne
Investments AFS	.28,522,730		463,865,737	-2,319,338,684	-2,153,933,653						_	(2) Tables below	do not include ain	gle name positio	#.Tr. 501, 29 Ju	Me, 2012.	
avestments Total	-31,236,726		-510,767,567		2.950,907,607 -2,426,144,002	0	0	0	0	0							
EMEA Gredit Total	- 62,157,833	42,157,833	228		4,216,083,112	559,205,139			659,467 890,979 74,908 9,334	74,908	8.534	OTHER DESIGNATION OF THE PERSO		a teresta de la constanta			
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ITSAXX MV Hedge	32,251,525,000	-1 159,305,339,008	3,568,131				13 684,659,583	32,251,525,500	H	40.500,950	3503.900.000	-3, 788, 429, 000	112,614,200	and and	155.975	-2.819.996	31,237,528
XAMIGGO	3.230,000,000	Ψ,	847,000	-6,590,114 121	127,399,152 maldit,435 14,530,548 59,357,214					0 0		0	14,530,566	14,226,534	310,002	-92,036	2,846,149
THAJON NET CO.00	715,000,000									6	0	Ф	-23,857,720		111,443	462103	-263,171
ITRAXX MA 09-12	695,000,000						5 -118.150.217			9 0	20 0	0 6	CENTRY CONTROL	16,090,194	000/000	82.03	1,162,308
TRACCIO 22-10	39,105,030,000			13.539(640 +17)					39 155 000,000		o	225,000,000	-177,796,465		. h der 7, spec	3,479,017	-54.777.713
CK Mill Total	68,457,588,501		. 12011211	10,424,121 -18	39778,445 -1,59243	4.971 244,943,252	2 -2,526,286,984	145,346,554	н	1	3,000,000,000	-21,773,312,560	-250,775,645		11,968,797	16,199,245	106,895,588
CDK/GOWSPH	62,317,696,995	5.628.851.467.254	30,362,013	00	7					2,268,300,000	2,160,250,000	1 660 300,000	578,785,150	*	7,578,943	18,278,451	M2(87)
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10:000	-1,556,040,060		320,034						1550,000,020	0 0	0.0	20,000,000	3,888,721	3,357,196		143.706	1,306,441
1007-10	25,000,000		1,409,431	20207		105,795,250 -12,498,981 204,817,778 24,416,498	102121211			9 6	9 6	2 6	10, 100, 100 10, 100, 100	41,787.79		40000	4,423,69/
950	21,355,060,050	8,455,198,099	4,532,020							100	0	0	63,287,050	37,791,510	5,480,985	7,548,961	20,913,405
20-100	28,435,000,000	- 1	3,776,050	5,847.400 -08	1	864,000 - 65.0	12 -545,002,371	28,435,000,000	28435,000,000	0	0		10,654,309	-55,117,137		-10.337.986	-27.672,188
C)G Telai	47 (64, 750, 605	20, 16, 20, 500	7 581 646	3,632,609 450	7	T	1	Ţ	T	1.124.000.000	1,596,750,000	608 605 000	40,503,005	462915720	1	32,837,544	303 000
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CHY 15.25	1,193,020,130		-2,297,163	3.258,033 -6		304.565.159 -126,714,5			1.193,000,000	19	6	-20,000,000	10,500,501		-2,863,051	181 983	19,529,431
Hr 25.38	2,990,000,000					4123 -2,116,676	16 .147,400,489			19.10	0 0	0.0	-15,702,977		1,235,361	(C) 495	4.900,471
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STAT ORNSEL	51,350,300	16,668,750,000	1	1	-55,780	275,645 130,029	-520,726	51,358,000	200'086'15	40.4	187,750,000	200,190,000	.55,793	11.36	ia.	213,660	265.735
CDX Hedge	1730,750,000	-563,419,750,000	1	9		-	1	1	1	9 6	00,00,00	0	0.00,010		2001.	10,010	200
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COX LCCK 12-15	110,000,000	281,313,760	107.00	28325	207- 811981	2,055,085 -262,175	4.102.757	110,000,000	110,000,000	n e	90	00	801,880.	491.632	13,494	23,899	53,436
COX Telat Of	2,386,660,000	1	252.55	1	1		1		11	9	9	0	343,595		107.124	68,769	956,799
MAKKAO Q	6.704.350,300	-8,652,188,619	2,718,476	9		8657768M 1102H3772				es es	240 040 040	95,000,000	16.084,678		1,862311	5,488171	12.274.030
INACKFINEN IN	548,125,000		278.332	- 43					-548,125,000	0	o	-622,000,000	8,382,819		289,178	25.23	9,103,049
SOUXIME OF	0		9	0	0 0	0 0	0 0	0	9	0 000000	9 200	EO 600 000	346.048.318	342 550 555	924 640 474	0 60 40 47	448.345
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Ags Total	316		80	13	. 3	Ц	186.	Ù	100	in in	150						
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0.00	2.604	-	99	49		ĺ	100	-	0 9	100	शक्ष						
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OF THE	2,48	10.376 158.239	78	383	575	4.4	216	IJ	10.			irvestme	Investments Assets				
ADD AIN	DPTETAL	NOTETABLY AND OR TRADE INFORMATION	I A T AL	DE INFO	PMATIO	7										S-DDO	OCC-SPI-00088644
NP PINC	TNELLE	AL PARTY	The same	V 11.11 V	MAN ALLA											)	







# Investment Grade vs. High Yield (Compression) (cob 5/23/12)

#### DRAFT (5/24/12)

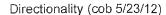
		Risk depiction			Exposure 8					Commentary	Parada Are	
	Overall	Compression exp Decompression 10% CDX IG CDX HY/LCDX TRAXX MN/FINSEN/SITRAXX XO/FIN SUB	CSW	\$mm (499) 455 (285) 174	P&L (\$000s) Compression CDXIG vs. HY iTraxx MN vs. X Other  Above P&L model and n	based or		(144,921) (134,901) (9,045) (975) otive allribut	(133,124) (321,601) 18,161	widens (narrows) le	we lose if High ss (more) than a	Yield
			CDXIG	. CDX HY	trade P&L e.	stimation	1 HY-l	200000000	G Ratio ┌ 12		CDXIG	СДХНҮ
		(\$mm)	(S17/S18)	(S17)	1,500		4		- 9	(\$m-m)	(S17/S18)	(S17)
	57	Maturity	3/21/2017	12/20/2016	1,000	- W	Name and Address of the Owner, where	0	Б	Notional	\$47,727	(\$7,101)
	â	Notional	\$47,727	(\$7,101)	500		Sept.	Falsan and	Marie 3	Volum es		
	S example (CDV)	CS01	(22.2)	2.4	0		4			1Week Total	139,034	21,372
	픮	10% CSW	(267.8)	156.1	3/07 3/0	3,	/09 3/1	0 3/11	3/12	1M Daily Avg.	21,033	3,136
1		CSW 10% Change					Current	Histo	rical	Since 4/30	400,944	57,842
		Close of Day	6.1	0.2	(\$mm)	CS01	Spread	Loss	Gain	Days to Liquidation	11	11
	(7)	Close of Week	(162.2)	(9.3)	IG (S17/S18)	(22.2)	118			(20% daily avg. vol.)		
		Since April 30	(141.5)	(6.7)	HY (S17)	2.4	677		\$1,000.5			
					IG vs. HY ratio		5.71x	4.00x	9,23x			
	1277	(\$mm except	iTraxx MN	iTraxx XO	1,000 3	•46	0.5374	хо-м	N [ 12		iTraxx MN	iTraxx XO
1		notional)	(S16/S17)	(S16)	750	F	<b>L</b> .	XO/M	N Ratio 9	(€mm)	(S16/S17)	(S16)
		Maturity	3/21/2017	12/20/2016	500	and A			Mrs 6	Notional	(€1,444)	(€4,917)
		Notional	(€1,444)	(€4,917)	250	W W -	****	Anna Antigoria	3	Volumes		
]		CS01	1.3	2.0	0 1					1Week Total	80,692	20,712
		10% CSW	23.5	138.1	3/07 3/0	)B. 3,	/09 3/	0 3/11	3/12	1 M Daily Avg.	13,647	4,139
		CSW 10% Change					Current	Histo	rical	Since 4/30	255,086	75,378
		Close of Day	3.1	1.2	(\$mm)	CS01	Spread	Loss	Gain	Days to Liquidation	1	6
		Close of Week	28.5	(4.8)	MN (S16/S17)	1.3	181			(20% daily avg. vol.)		
		Since April 30	187.9	(6.8)	XO (S16)	2.0	743		\$2,170.2			
X I I X					MN vs. XO ratio		4.10x	3.58x	10.08x			
A G G	INTE	RNAL USE ONLY				12					J.P.Morg	an

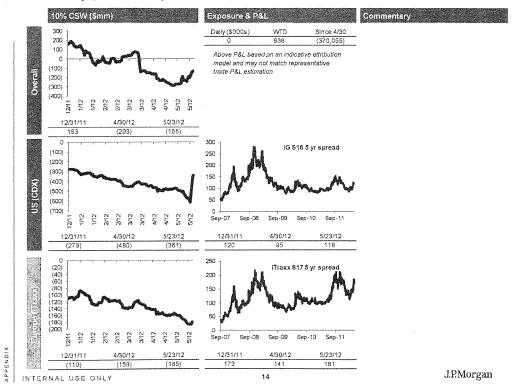
2299

# Off-the-run index risk (cob 5/23/12)

	Werall	DXIG9 raxx S9	Notion Current 46,989	nal (\$bn) Delta Adj. 55,960 34,572 90,533	PV (\$mm) (2,653) (2,303) (4,956)		(\$mm) Day Chg. 0.5 . 0.4 0.9	Exposure & Daily (\$000s) (3,315) Above P&L bas model and may trade P&L estim	WFD (52,282) ed on an indic not match rep		Commentary  This refers to the riconcentrated positing CDX and ITraxx		
	(CB)X)	omm) S01 hange Close of Close of Since Ap	Week	IG 9 10yr (25.1) 0.5 16.9 20.0		18.5yr (18.6) 1.9 (13.0) (10.1)		300 5YO1 250 100 150 100 50 50 50 50 50 50 50 50 50 50 50 50 5	3 — 10Y59 - Sep-09 Sep-	OTR/S9 60 40 20 0 (20) (60) (60) (80)	(\$mm) Notional Volumes 1Week Total 1M Daily Avg. Since 4/30 Days to Liquidation (20% daily avg. vol.)	iG 9 10yr \$46,989 20,631 2,314 41,990 102	IG 18 5yr \$39,389 139,034 21,033 400,944 9
	G PA	imm) S01 hange Close of Close of Since Ar	f Day f Week	VIN S9 10yr (17.3) 0.4 0.3 1.9	MN S	17 5 yr 5,9 (0.0) 0.6 10.8		250 5YOT 200 150 100 50 50 50 50 50 50 50 50 50 50 50 50 5	R	OTR/55 50 40 40 30 20 20 10 (10) (20) (20) (40] 0 Sep-11	(€mm) Notional Volumes 1Week Total 1M Daily Avg. Since 4/30 Days to Liquidation (20% daily avg. vol.)	MN S9 10yr €16,340 2,214 317 5,932 258	MN S17 5 yr (€15,380) 80,692 13,647 255,086 6
APPENDIX	¹PV INTERN			sheet carryii LY	ng value			1:	3			J.P.M.	organ

BANK PROPRIETARY AND/OR TRADE INFORMATION





BANK PROPRIETARY AND/OR TRADE INFORMATION

OCC-SPI-00088644

2301

# Tranche Risk (cob 5/23/12)

	Risk depiction			Exposure & P	&L.		Commentary
	Correlation 10% s	hift ¹		Daily (\$000s)	WTD	Since 4/30	
		Market Control		TBU	TBU	TBU	
	index nam e	Tranches	Total				
	CDXIG Junior	0-30%	124			cative attribution	
	CDXIG Super Senior	30-100%	(164)	model and ma		presentative	
	CDX IG Total		(41)	trade P&L esti	mation		
ð	CDX.HY Junior	0-35%	37				
Overall	CDX.HY Super Senior	35~100%	- 6				
	CDX.HY Total		45				
	iTraxx Junior	0-22%	(28)				
	iTraxx Super Senior	22-100%	(150)				
	iTraxx Total		(178)				
0.00	Grand total	hanitan Yangariy	(174)				
100000		Long IG 9	Short				
		Super Sr. 10yr	0-30				
	10% Corr 01	(18)	25				
2	Change						
	Week To Date	0.12	-0.06				
	Since April 30	-2.92	0.32				
RASSISTED.				Graphs of 1	0% correlatio	n shift	CIO Vol traded since Apr 30th
				Theoretical Corr and Sp		s based on 10%	Implied Daily, weekly P/L
200		Long iTraxx 9	Short	con and op	roud graph		
		Super 10yr	0-22				
	10% Corr 01	-15	11				
	Change						
1111	Week To Date	0.30	0.16				
	Since April 30	-0.70	-0.70				
	Correlation data as of COB 4	4/4					
1					15		J.P.Morgan
INTE	RNAL USE ONLY				10		b.1.11101 Bull

BANK PROPRIETARY AND/OR TRADE INFORMATION

(\$mm) (253.0) (245.9) (239.3) (232.6)	Post December 2012 1. Capital One Bank (Usa), National 2. Goodnoh Corporation 3. Medonald'S Corporation 4. Baxter International Inc.		Pre December 2012  1. R.R. Donnelley & Sons Company 2. Liz Claiborne, Inc. 3. Gannett Co., Inc. 4. Lennar Corporation	532.6 532.3	Post December 2012  1. Brunswick Corporation  2. The New York Times Company 3. The Tjx Companies, Inc.	(\$mm) 265.1 251.1 235.6
(245.9) (239.3) (232.6)	(Usa), National 2. Goodrich Corporation 3. Medonald'S Corporation	(536.4) (533.7)	Company 2. Liz Claiborne, Inc. 3. Gannett Co., Inc.	532.6 532.3	2. The New York Times Company 3. The Tjx Companies,	251.1
(239,3)	3. Medonald'S Corporation	(533.7)	3. Gannett Co., Inc.	532.3	Company 3. The Tix Companies,	
(232.6)						235.6
, ,	4. Baxter International Inc.	(533.6)	4 Lennar Corporation			
			T. Letiniar eciperation	531.5	4. Dean Foods Company	231.6
(222.1)	Bristol-Myers Squibb     Company	(532.6)	5. Belo Corp.	530.2	5. Temple-Inland Inc.	222.7
(\$mm)	Post June 2013	(\$mm)	Pro June 2013	(\$mm)	Post June 2013	(\$mm)
(1.5)	1., Imperial Chemical	(1.5)	<ol> <li>Gas Natural Sdg, S.A.</li> </ol>	638.7	<ol> <li>Gas Natural Sdg, S.A.</li> </ol>	638.7
(1.4)	2. Altadis Sa	(1.4)	<ol><li>Gdf Suez</li></ol>	580.6	2. Gdf Suez	580.7
(0.1)	<ol> <li>Royal &amp; Sun Alliance Insurance Pic</li> </ol>	(0.5)	<ol> <li>Unicredit, Societa Per Azioni</li> </ol>	507.2	<ol> <li>Banca Monte Dei Paschi Di Siena S.P.A</li> </ol>	465.9
(0.0)	<ol> <li>The Royal Bank Of Scotland N.V.</li> </ol>	(0.4)	<ol> <li>Banca Monte Dei Paschi Di Siena S.P.A.</li> </ol>	489.9	<ol> <li>Banco Bilbao Vizcaya Argentaria, Sociedad Anonima</li> </ol>	461.0
(0.0)	5. Hanson Limited	(0.1)	<ol> <li>Banco Bilbao Vizcaya Argentaria, Sociedad Anonima</li> </ol>	485.8	<ol> <li>Unicredit, Societa Per Azioni</li> </ol>	458.8
	(1.5) (1.4) (0.1) (0.0)	(\$mm) Post June 2013 (1.5) 1. Imperial Chemical (1.4) 2. Atadis Sa (0.1) 3. Royal & Sun Alliance Insurance Pic (0.0) 4. The Royal Bank Of Scotland N.V.	(\$mm)	(\$mm)	Smm	Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm   Post June 2013   Smm

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# Limits

( i i / o )	Usage	Synthetic Limit	Limit (Comme)	Usage 5/23/12	Synthetic Limi
Limit (\$mm)	5/23/12	Limit	Limit(\$mm)		
CS01 Unadjusted			VaR	156.9	180.0
CDXHY	7.2	8.6			
CDXLCDX	(0.0)	1.8	Compression		
CDXIG	(29.0)	39.4	US Campression Limit	455.4	496.0
iTraxx MN	(11.6)	23.7	EUR Compression Limit	174.0	174.0
iTraxx XO	2.7	3.3			
iTraxx Finsub	(0.2)	0.6	Tranche Limits		
iTraxx Finsen	0.3	0.5	10% Corr Shift	(174.0)	175.0
CSW10%			Steepen10%		
CDXHY	455.8	496.0	CDXHY	(80.2)	64.0
CDXLCDX	(0.3)	0,1	CDXLCDX	0.2	0.5
CDXIG	(499.1)	549.0	CDXIG	(419.8)	436,0
iTraxx MN	(293.8)	434.0	iTraxx MN	(171.3)	265.0
iTraxx XO	185.1	201.0	iTraxx XO	58.8	65.0
iTraxx Finsub	(11.1)	27.0	iTraxx Finsub	(22.4)	30.0
iTraxx Finsen	8.4	12.0	iTraxx Finsen	4.2	6.0
Large Index Notionals	;				
CDXIG.9.7Y	34.2	34.2			
CDXIG.9.10Y	47.0	81.0			
iTraxx S9 7Y	5.4	5.4			
iTraxx S9 10Y	13,0	13.0			

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APPENDIX

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# Differences summary

#### DRAFT (5/24/12)

By count	rain.	CONTRACTOR CONTRACTOR			By instrument (\$mm			
		Sum of	Sum of CP	Sum of MTM			Sum of CP	
Counterparty		MTM	MTM	Diff	Instrument	Sum of MTM		Sum of MTM Dif
CA		(32)	(32)	0	CDX IG S09 10Y 00-03	(1,410)	(1,392)	(18
BBVASA		D	.0	٥	ITRAXX MN S06 10Y 06-09	56	66	(10
BNPP		382	391	(9)	CDX HY 509 05Y 15-25	(9)	(2)	(6
AOE		35	43	(9)	CDX HY S08 05Y 10-15	27	15	12
BPLC		(105)	(103)	(2)	TRAXX MN S09 10Y 22-100	(604)	(604)	(0
CBKAG		(1)	(2)	0	CDX IG S09 05Y 00-03	428	401	27
CGML		(5)	(7)	1	CDX (G S18 05Y	22	11	11
CITI	4	(115)	(129)	14	CDX IG S09 10Y 10-15	232	221	11
CSI		(207)	(208)	0	CDX HY S11 07Y	(17)	(16)	(2
CSX	4	(54)	(52)	(2)	CDX IG S09 10Y 15-30	50	41	9
DBKAG		384	379	5	Other	1,548	1,611	(63
38)		(27)	(26)	(1)	Total	323	352	(29
⊣SBCEU		12	9	3				
-ISBCUS		(7)	(9)	2				
VILI	4	5	5	(0)				
WSCS.		130	113	17				
MSIL		(95)	(92)	(3)				
NOMURAIP		124	128	(5)				
RBSFLC		74	74	O				
SGCIB		(43)	(21)	(22)				
UBSAG		(130)	(111)	(19)				
Total	***********	323	352	(29)				

CIO PV Differen	ces with MarkIT	pricing							
Index (\$mm)1			Tranche (\$mm)1			Pricing tol	erance ¹		
	Mark∏ PV i	V Exceeding		MarkIT PV	PV Exceeding	Position	Position	Independent	MINISTERNATURE FOR
	Change	Cap ¹		Change	Cap ¹	Туре	Type	Source	Notes
Series 09 Index	140,3	121.5	Series 09 Index	17.8	14.7	Index - IG	½ bos	Markit	Aggregate max: \$50mm
Other Index	(142.9)	(138.9)	Other Index	10.4	3.7	Index - HY	1 bps	Markit	Aggregate max.: \$50mm
Subtotal	(2.6)	(17.4)	Subtotal	28.2	18.4	Tranche	\$2mm	Dealer quotes	Perposition
By Family			By Family						
CDX IG	144.4		CDX IG	52.3					
CDX HY	(162.9)		CDX HY	(22.1)					
ITRAXX MN	(0.1)		ITRAXX MN	(0.1)					
ITRAXX XO	1.3		Chg. due to OnTR 5Y	30.2					

INTERNAL USE ONLY Note: as of 5/23/12

1 Negative number implies marks are too low – P&L adjusted upward to cap; Positive number implies marks are too high – P&L reduced to cap.

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OCC-SPI-00088644

Chg. in OnTR 5Y

### New trades

Asy 24, 201	2						100					
CHICAGO CONTRACTOR 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							Traded	Traded	Previous	Day	Closina	Spread
Date	#	Risk	Notional	Product	Maturity	Counterparty	Price	Spread	Day Price	Spread	Price	(bps)
24-May-12	1	LONG	15,000,000	CDX HY S18 05Y	20-Jun-17	JPMCB NY CDS (HY Inc	93.06		92,625		93.31	
24-May-12	2	LONG	50,000,000	CDX HY S18 05Y	20-Jun-17	JPMCB NY CDS (HY In:	92.75		92.625		93.31	
24-May-12	3	LONG	25,000,000	CDX HY S18 05Y	20-Jun-17	JPMCB NY CDS (HY In-	93.00		92,625		93.31	
24-May-12	4	SHORT	(500,000,000)	CDX IG \$18 05Y	20-Jun-17	BOA CHARLOTTE		119.50		122.25		118.00
24-May-12	5	LONG	50,000,000	CDX HY S18 05Y	20-Jun-17	SOCGEN	93.38		92.625		93.31	
24-May-12	6	SHORT	(50,000,000)	CDX HY S18 05Y	20-Jun-17	DEUTSCHE LDN	93,38		92.625		93.31	
24-May-12	7	LONG	25,000,000	CDX HY S18 05Y	20-Jun-17	JPMCB NY CDS (HY In:	93,38		92.625		93.31	
24-May-12	8	LONG	10,000,000	CDX HY S18 05Y	20-Jun-17	JPMCB NY CDS (HY In	93.44		92.625		93.31	
24-May-12	9	LONG	65,000,000	CDX HY 518 05Y	20-Jun-17	JPMCB NY CDS (HY In	93,50		92.625		93.31	
24-May-12	10	LONG	50,000,000	CDX HY S18 05Y	20-Jun-17	NOMURA LDN	93,31		92.625		93.31	
24-May-12	11	LONG	85,000,000	CDX HY 518 05Y	20-Jun-17	JPMCB NY CDS (HY In:	93.56		92.625		93.31	
24-May-12	12	LONG	40,000,000	CDX HY S18 05Y	20-Jun-17	JPMCB NY CDS (HY In	93.44		92.625		93.31	
24-May-12	13	LONG	20,000,000	CDX HY S18 05Y	20-Jun-17	JPMCB NY CDS (HY In	93.38		92.625		93.31	
24-May-12	14	LONG	50,000,000	CDX HY \$18 05Y	20-Jun-17	JPMCB NY CDS (HY In:	93.50		92.625		93.31	
24-May-12	15	LONG	25,000,000	CDX HY \$18 05Y	20-Jun-17	JPMCB NY CDS (HY In:	93,31		92.625		93.31	
24-May-12	16	LONG	50,000,000	CDX HY \$18 05Y	20-Jun-17	BARCLAYS NY	93.38		92.625		93.31	
24-May-12	17	LONG	25,000,000	CDX HY S18 05Y	20-Jun-17	SOCGEN	93.25		92.625		93.31	
24-May-12	18	LONG	250,000,000	CDX IG S18 05Y	20-Jun-17	CITIBANK NY		117.63		122.25		118.00
24-May-12	19	SHORT	(250,000,000)	CDX IG S18 05Y	20-Jun-17	NOMURA LDN		118.00		122.25		118.00
24-May-12	20	SHORT	(500,000,000)	COX IG S18 05Y	20-Jun-17	BNPLDN		117.99		122.25		118.00
24-May-12	21	LONG		CDX IG S18 05Y	20-Jun-17	BARCLAY S NY		118.00		122.25		118.00
24-May-12	22	LONG	250,000,000	ITRAXX MN S17 05Y	20-Jun-17	BOA CHARLOTTE		183.25		180.00		173.60
24-May-12	23	SHORT	(150,000,000)	ITRAXX MN S17 05Y	20-Jun-17	CITIBANK NY		174.75		180.00		173.60
24-May-12	24	LONG	200,000,000	TIRAXX MN S17 05Y	20-Jun-17	BNP LDN		182.75		180.00		173.60
24-May-12	25	SHORT	(250,000,000)	ITRAXX MN S17 05Y	20-Jun-17	BNPLDN		180.00		180.00		173.60
24-May-12	26	SHORT	(250,000,000)	ITRAXX MN S17 05Y	20-Jun-17	BNPLDN		176.00		180.00		173.60
24-May-12	27	SHORT	(500,000,000)	ITRAXX MN \$17 05Y	20-Jun-17	BNP LDN		176,50		180.00		173.60
24-May-12	28	SHORT		ITRAXX MN S17 05Y	20-Jun-17	BNP LDN		177.00		180.00		173.60
24-May-12	29	SHORT	(250,000,000)	ITRAXX MN S17 05Y	20-Jun-17	BNP LDN		162.00		180.00		173.60
24-May-12	30	LONG		ITRAXX MN S17 05Y	20-Jun-17	JPMCB - LON - CORP IN	DEX	183.00		180,00		173.60
24-May-12	31	SHORT	(250,000,000)	ITRAXX MN S17 05Y	20-Jun-17	CITIBANK NY		176.75		180.00		173.60

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# Daily price testing – Index

CO8; 2012-05-23							Total Index	(2.57)	(17.38
	USD Factored	Credit Spread		CIO Quote	Markit Quote	ICE Quote	MarkIT Spread	MarkIT PV	PV Exceeding
Product	Notional (\$ mm)	BP Value (\$ mm)	Price Type	(LON Close)	(NY/LON Close)	(NY/LON Close)	Difference	Change (\$ mm)	Cap (\$ mm
Series 09 index							[	140,29	121,54
CDX IG 509 10Y	45,485	(22.68)	epread	162.8	158.8	159.1	(3.9)	98,50	77.16
CDX IG S09 07Y	33,099	(8.31)	spread	121.8	117.9	118.1	(3.9)	31.99	27.84
CDX IG 509 05Y	(31,675)	1.84	spread	89.8	85.6	85.2	(4.1)	(7.57)	(6.65
ITRAXX MN 509 05Y	21,283	(2.29)	spread	162.9	164.1	162.9	1.1	(2.57)	(1.42
ITRAXX MN S09 10Y	16,340	(8.66)	apread	220,3	217.1	220.3	(3.2)	27.52	23.18
ITRAXX MN S09 07Y	6,733	(1.97)	spread	194.8	193.6		(1.2)	2.42	1,43
Other Index							F	(142.86)	(138.93
CDX IG S18 05Y	39,389	(18.90)	spread	122.3	118.3	118.3	(4.0)	74.76	65.31
CDX HY S08 05Y	15,430	(0.12)	price	100.1	100.1	100,1	(25.6)	3.09	2.97
CDX IG S17 05Y	8.338	(3,65)	spread	115,1	111.1	111.3	(3.9)	14.37	12.54
COX HY S09 05Y	5,696	(0,33)	price	100,3	100.4	100.3	(10.1)	3.34	3.01
CDX HY S11 07Y	3.703	(1,15)	price	98.6	98.7		(2.4)	2.81	1,66
CDX HY S11 05Y	994	(0.15)	price	101.1	101.1	101.2	(5.2)	0.79	0.64
CDX IG S08 97Y	434	(0.09)	apread	166.8	135.1	135,0	(31.7)	2.74	2.70
CDX HY S18 05Y	340	(0,13)	price	92.6	93.2	93.2	(15.3)	1.96	1.83
CDX IG S16 10Y	302	(0.23)	spread	150.3	143.3	142.6	(7.0)	1.60	1.49
CDX IG S14 10Y	257	(0.18)	spread	139,8	133.9	135.1	(5.9)	1.07	0.98
CDX IG S15 10Y	(54)	0.04	spread	141.8	137,3	140.1	(4.4)	(0.18)	(0.16
CDX HY S14 03Y	(73)	0.01	price	101.8	101.4		28.8	0.23	0.22
CDX HY S08 07Y	(180)		price	98.4	98.6		(13.5)	(0.48)	(0,44
CDX IG S07 D7Y	(704)	0.11	apread	128.8	142.8		14.1	1.54	1.48
CDX LCDX S10 05Y	(1,165)	0.13	price	101.5	101.5		2.5	0.31	0.25
CDX HY S10 07Y	(2,049)		price	100.6	100.9		(11.0)	(6.37)	(5.79
CDX HY S16 05Y	(6,562)		price	96.4	97.0	97.1	(19.3)	(42.49)	(40.28
CDX HY S17 05Y	(6,887)		price	93.9	94.6	94.5	(17.6)	(42.95)	(40,51
CDX IG S14 05Y	(7,657)		spread	89.3	86.3	87.6	(2.9)	(6.84)	(5.68
CDX HY S10 05Y	(9,134)		price	101.8	101.B	101.8	(2.4)	(2.37)	(1.39
CDX HY S15 05Y	(9,618)		price	97.9	96,5	98,6	(19.3)	(57.12)	(54.15
CDX HY S14 05Y	(11,977)		price	99.3	99.7	99.8	(14.7)	(48.62)	(45.32
CDX IG S15 05Y	(17,159)		spread	99.8	96,4	97,0	(3.4)	(20.29)	(17.28

CDX (G S15 06Y (17,169) 6.01 spread 93.6 95.4

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# Daily price testing (cont'd) - Index

COB: 2012-05-23							Total Index	(2.57)	(17.38
	USD Factored	Gredit Spread		CiO Quote	Markit Quote	ICE Quote	MarkIT Spread	MarkIT PV	PV Exceeding
Product	Notional (\$ mm)	BP Value (\$ mm)	Price Type	(LON Close)	(NY/LON Close)	(NY/LON Close)	Difference	Change (\$ mm)	Cap (\$ mm
Other Index								(142.86)	(138,93
CDX IG \$16 05Y	(18,229)	7.19	spread	109.8	106.0	105.8	(3.8)	(27.19)	(23.60
TIRAXX MN S16 05Y	13,563	(5.65)	spread	180.4	180.3	180.4	(0.1)	0.38	-
ITRAXX MN S15 05Y	5,110	(1.92)	spread	182.7	183.1	182.7	0.4	(0.69)	-
ITRAXX FINSUB \$14 05Y	1,642	(0.48)	spread	503.0	502.5		(0,5)	0.23	-
ITRAXX FINSUB \$16 05Y	1,316	(0.52)	spread	525.0	523.8		(1.2)	0.62	0,36
ITRAXX MN S15 07Y	1,114	(0.58)	spread	201.0	198.7		(2.3)	1.35	1,06
TRAXX MN S06 10Y	100	(0.04)	spread	221.0	227.3		5.3	(0.25)	(0.23
ITRAXX FINSUB \$17 05Y	76	(0.03)	spread	503.0	501.2		(1.8)	0.06	0.04
ITRAXX FINSUB S07 05Y	(117)	0.00	spread	588.0	477.3		(110.7)	(0.10)	(0.10
ITRAXX XO S17 05Y	(547)	0.19	spread	738.6	739.1	738.6	0.5	0.09	-
TRAXX FINSUB \$15 05Y	(573)	0.19	spread	519.0	514.9		(4.1)	(0.75)	(0.66
ITRAXX FINSUB S08 05Y	(664)	0.04	spread	445.0	431.7		(13,3)	(0,50)	(0.48
ITRAXX FINSEN S17 05Y	(690)	0.29	spread	298.5	295.9		(2.6)	(0.75)	(0.6
TRAXX FINSUB S12 05Y	(977)	0.22	spread	481.5	484.6		3.1	0.69	0.58
ITRAXX FINSUB \$10 05Y	(1,391)	0.21	spread	461,0	460.9		(0.1)	(0.02)	-
TRAXX MN S16 10Y	(1,667)	1.24	spread	195.6	194.9	195.6	(0.6)	(0.79)	(0.17
ITRAXX XO S15 05Y	(1,702)	0.54	spread	652.3	653.8	652.3	1.5	0.80	0.27
TRAXX MN S15 10Y	(2,054)		spread	201.1	202.7	201.1	1.6	2.36	1.63
ITRAXX FINSUB S09 05Y	(2,129)		spread	438.0	443.4		5.4	1.20	1.08
ITRAXX MN S15 03Y	(3,535)		spread	159.0	155.4		(3.6)	(2.54)	(2.19
ITRAXX XO S16 05Y	(6,188)		apread	706.3	707.3	706.3	1.0	1.94	-
(TRAXX MN S17 05Y	(15,380)		apread	180.0	180.D	180.0	0.0	0.10	-
				Change in t	he OnTR 5Y Con	stract	r	(17.37)	
By Family	51,826	(36.51)	spread	122.3	118.3	118.3	(4,0) L	144.44	
CDX KG	(20,327)		price	92.6	93.2	93.2	(15,3)	(162.92)	
CDX HY		(10.68)		180,0	180.0	180.0	0.0	(0.15)	
TRAXX MN	41,607 (8,437)		spread spread	738,6	739.1	738,6	0.5	1.26	

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# Daily price testing - Tranche

COB: 2012-05-23						Total Tranche		18.40
	USD Factored	Credit Spread		CIO Quote		Independent Index Spread		PV Exceeding
Product	Notional (\$ mm)	BPValue (\$ mm)	Price Type	(LON Close)	(based on Ref Index)	Quote Change	Changa (\$ mm)	Cap (\$ mm)
Series 09 Tranche							17.82	14.69
CDX IG S09 10Y 30-100	16,565	(2.54)	upfront+100	(3.4)	(3.4)	(3.9)	9.92	7.92
CDX IG \$09 07Y 30-100	11,121	(0.47)	upfront+100	(2.2)	(2.2)	(3,9)	1.82	-
CDX IG S09 10Y 00-03	2,018	(4.81)	upfront+500	72.9	73.8	(3.9)	18.76	16.76
CDX IG S09 10Y 07-10	775	(1.85)	upfront+500	8.4	9,3	(3.9)	7.22	5.22
CDX IG S09 10Y 03-07	60	(0.19)	upfront+500	29.9	31.0	(3.9)	0.74	
CDX IG S09 07Y 03-07	(215)	0.39	upfront+500	6,6	7.1	(3.9)	(1.50)	-
CDX KG S09 05Y 30-100	(260)	0.00	.upfront+100	(0.6)	(0.6)	(4.1)	(0.00)	
CDX IG S09 07Y 00-03	(331)	1.11	upfront+500	55.0	55,9	(3.9)	(4,29)	(2,29)
CDX IG S09 07Y 07-10	(365)	0.26	upfrant+500	(5.8)	(5.5)	(3.9)	(1.02)	-
CDX KS S09 05Y 03-07	(1,395)	0.19	upfront+500	(2.5)	(2.5)	(4.1)	(0.80)	-
CDX IG S09 07Y 10-15	(1,970)	0.76	upfront+100	0.4	0.5	(3.9)	(2.93)	(0.93)
CDX IG S09 10Y 10-15	(1,980)	2.74	upfront+100	11.0	11.5	(3.9)	(10.69)	(8.69)
CDX IG S09 05Y 07-10	(2,045)	0.03	upfront+500	(2.9)	(2.9)	(4.1)	(0.14)	-
CDX IG \$09 05Y 00-03	(2,719)	5.88	upfront+500	. 17.8	18.2	(4.1)	(24.16)	(22.16)
CDX IG S09 05Y 10-15	(2,905)	0.02	upfront+100	(0.6)	(0.6)	(4.1)	(0.07)	-
CDX IG S09 10Y 15-30	(3,800)	2.36	upfront+100	1.3	1,5	(3.9)	(9.20)	(7.20)
CDX IG S09 07Y 15-30	(6,965)	1.01	upfront+100	(1.6)	(1.5)	(3.9)	(3.88)	(1.88)
CDX IG S09 05Y 15-30	(12,215)	0.04	upfront+100	(0.6)	(0.6)	(4.1)	(0.17)	-
TRAXX MN S09 10Y 22-100	20,777	(7.05)	spread	70.0	73.4	(3.2)	22.39	20.39
TRAXX MN S09 07Y 22-100	14,252	(1.82)	spread	33,5	35.4	(1.2)	2.23	0.23
TTRAXX MN S09 05Y 22-100	8,935	(0.15)	spread	9.5	9,9	1,1	(0.17)	-
TTRAXX MN S09 10Y 00-03	1,422	(1.19)	upfront+500	73.7	74.3	(3.2)	3.78	1.78
TRAXX MN \$09 10Y 06-09	478	(0.77)	upfront+300	30.8	31.9	(3.2)	2.46	0.46
(TRAXX MN S09 05Y 06-09	428	(0.09)	upfront+300	(2.3)	(2.2)	1.1	(D.11)	-
ITRAXX MN S09 05Y 09-12	352	(0.04)	spread	60.5	62.8	1.1	(0.05)	
(TRAXX MN S09 10Y 09-12	296	(0.39)	spread	620.0	630,4	(3.2)	1.25	-
TRAXX MN S09 07Y 09-12	227	(0.19)	spread	421.5	432.6	(1.2)	0.24	-
TRAXX MN S09 10Y 12-22	195	(0.16)	spread	308,5	316.4	(3.2)		-
TRAXX MN S09 10Y 03-06	6	(0.02)	upfront+500	41.7	42.8	(3.2)	0.06	-

# Daily price testing (cont'd) - Tranche

OOB: 2012-05-23						Total Tranche	28.24	18.40
	USD Factored	Credit Spread		CIO Quote	Adj Tranche Priced	Independent Index Spread		PV Exceeding
Product	Notional (\$ mm)	BP Value (\$ mm)	Price Type	(LON Gose)	(based on Ref Index)	Quote Change	Change (\$ mm)	Cap (\$ mm)
Series 09 Tranche							17.82	14.69
TRAXX MN S09 07Y 06-09	(31)	0,00	upfront+300	12.6	13.2	(1.2)	(0.00)	-
TRAXX MN \$09 05Y 12-22	(157)	0.01	spread	34.5	36.1	1.1	0.01	-
ITRAXX MN S09 07Y 03-06	(201)	0.31	upfront+500	22.8	23.5	(1.2)	(0.38)	-
TRAXX MN S09 05Y 03-06	(453)	0.39	upfront+500	1.8	1,9	1.1	0.43	-
TRAXX MN S09 07Y 12-22	(566)	0.26	spread	189.0	195.5	(1.2)	(0.32)	-
ITRAXX MN S09 07Y 00-03	(843)	0.98	upfront+500	64:4	65.0	(1.2)	(1.20)	
ITRAXX MN S09 05Y 00-03	(3,712)	6.31	upfront+500	40.9	41.2	1.1	7,08	5,08
Other Tranche							10,42	3,70
CDX HY S10 05Y 35-100	3.744	(0.05)	price	105.2	105.2	(2.4)	0.13	-
CDX HY S09 05Y 35-100	3,051	(0.01)	price	102.9	102.9	(10.1)	0.08	-
CDX LCDX S10 05Y 15-100	2,852	(0.11)	price.	104.9	104.9	2,5	(0.26)	-
CDX HY S10 05Y 15-25	2,063	(1.22)	price	91,6	91.6	(2.4)	2.94	0.94
CDX HY S10 07Y 35-100	1,452	(0.19)	price	111.0	110.9	(11.0)	2.14	0.14
CDX HY S10 07Y 10-15	1,360	(0.38)	price	7.3	7.1	(11.0)	4.19	2.19
CDX HY S11 05Y 15-25	1,015	(0.78)	price	78.2	76.0	(5.2)	4.09	2.09
CDX HY S09 05Y 25-35	875	(0.01)	price	102.9	102.9	(10.1)	0.13	-
CDX HY S08 05Y 25-35	663	(0.00)	price	100.4	100.4	(25.8)	0.01	
CDX HY S10 05Y 25-35	655	(0.07)	price	-103.8	103.8	(2.4)	0.17	-
CDX HY S11 05Y 35-100	508	(0.02)	price	107.1	107.0	(5.2)	0.09	
CDX HY S11 05Y 10-15	405	(0.19)	price	13.6	12.2	(5.2)	0.97	
CDX HY S10 07Y 15-25	385	(0.39)	price	56.4	56,0	(11.0)	4.26	2.26
CDX HY S08 07Y 25-35	282	(80.0)	price	104.3	104.1	(13.5)	1.10	
CDX HY 510 07Y 25-35	265	(0.17)	price	96.1	95.9	(11.0)		~
CDX HY S11 05Y 25-35	250	(0.05)	price	104.3	103.7	(5.2)		-
CDX HY S10 05Y 10-15	232	(0.15)	price	20.8	20.7	(2.4)		
CDX HY S08 07Y 15-25	225	(0.19)	price	84.5	84.0	(13.5)	2.54	0.54

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# Daily price testing (cont'd) - Tranche

OOB: 2012;05-23							ranche		18.40
	USD Factored	Credit Spread		CIO Quote	Adj Tranche Priced				PV Exceeding
Poduct	Notional (\$ mm)	BP Value (\$ mm)	Price Type	(LON Close)	(based on Ref Index)	Quote	Change	Change (\$ mm)	Cap (\$ mm)
Other Tranche								10,42	3.70
CDX IG S07 07Y 07-10	110	(0.04)	upfront+500	(4.0)	(4.6)		14.1	(0.56)	-
CDX LCDX S10 05Y 12-15	110	(0.03)	price	102.9	102.3		2.5	(0.07)	
CDX HY 508 07Y 35-100	109	(0,01)	price	109.9	108.9		(13.5)	0.10	
CDX IG S15 05Y 15-100	100	(0.01)	upfront+25	0.2	0.2		(3.4)	0.05	-
CDX HY S11 07Y 35-100	96	(0.02)	price	110.4	110.4		(2.4)	0.04	-
CDX HY S08 07Y 10-15	47	(0.04)	price	32.1	31.5		(13.5)	0.56	-
CDX HY S11 07Y 10-15	17	(0.00)	price	6.4	6.5		(2.4)	0.01	-
CDX HY S07 07Y 15-25	-	(0.01)	price	92.5	96,0		33.7	(0.22)	-
CDX HY S07 07Y 35-100		(0.00)	price	106.6	106.8		33.7	(0.01)	-
CDX IG S07 D7Y 15-30		0.00	upfront+100	(1,2)	(1.3)		14.1	0.00	
CDX IG S07 07Y 30-100		(0.00)	upfront+100	(1.3)	(1.3)		14.1	(0.01)	-
CDX IG S08 07Y 03-07		0.00	upfront+500	5.4	12.6		(31.7)	(0.01)	-
CDX IG S08 07Y 07-10		0.00	upfront+500	(5.3)	(3.0)		(31.7)	(0.07)	-
CDX IG S08 07Y 10-15		(0.00)	upfront+100	(0.4)	0.4		(31.7)	0.01	-
CDX IG S08 07Y 30-100		(0.00)	upfront+100	(1.7)	(1.6)		(31.7)	0,01	-
CDX IG S10 05Y 03-07	-	0.00	upfront+500	(2.5)	(2.3)		(4.2)	(0.00)	-
CDX IG S10 05Y 07-10	-	(0.00)	upfront+500	(4.9)	(4.9)		(4.2)	0,00	
CDX HY S11 07Y 15-25	(30)	0.02	price	49.8	50.1		(2.4)	(0.06)	-
CDX HY S09 05Y 10-15	(71)	0.06	price	31.8	32.7		(10.1)	(0.62)	-
CDX HY S08 05Y 35-100	(94)	0.00	price	100.4	100.4		(25.8)	(0.00)	
CDX IG \$15 05Y 00-03	(195)	0.66	upfront+500	36.D	36.6		(3.4)	(2.24)	(0.24)
CDX KG S08 07Y 15-30	(375)	0.04	upfront+100	(1.8)	(1.5)		(31.7)	(1.15)	-
CDX HY S08 05Y 10-15	(812)	0.19	price	98.4	93.9		(25.8)	(4.89)	(2.89)
CDX HY S09 05Y 15-25	(1,055)	0.33	price	99.4	99.7		(10.1)	(3.33)	(1.33)
CDX HY S08 05Y 15-25	(1,410)	0.01	price	100.3	100.2		(25.8)	(0.21)	-
TRAXX MN S15 07Y 22-100	2,517	(0.84)	spread	65.5	68.8		(2.3)	1.96	
TRAXX MN S15 05Y 22-100	2,454	(0.49)	spread	45,5	47.5		0.4	(0.18)	
TRAXX MN 515 03Y 22-100	378	(0.02)	spread	15.5	17.1		(3.6)	0.07	
TRAXX MN S06 10Y 03-05	189	(0.23)	upfront+500	41.6	41.2		6.3	(1.45)	-
TRAXX MN S06 10Y 06-09	25	(0.11)	upfront+300	28,9	28.5		6,3	(0.70)	J.P.Morg

# Daily price testing (cont'd) - Tranche

CIO PV Differences w	manca (1997)	(6) (15)							
COB: 2012-05-23						Т	otal Tranche	28.24	18.4
	USD Factored	Credit Spread		CKO Quote	Adj Tranche Priced	Independent	Index Spread	MarkIT PV	PV Exceedir
Product	Notional (\$ mm)	BP Value (\$ mm)	Price Type	(LON Close)	(based on Ref Index)	Quote	Change	Change (\$ mm)	Cap (\$ mr
Other Tranche								10,42	3.7
TRAXX MN S15 03Y 03-06	13	(0.02)	upfront+500	9,5	10.3		(3.6)	0.06	-
ITRAXX MN S06 10Y 09-12		(0.00)	spread	633.0	615.0		6.3	(0.02)	
TRAXX MN S06 10Y 12-22	-	(0.01)	spread	299.5	291.6		6.3	(0.09)	-
TRAXX MN S06 10Y 22-100	-	(0.00)	spread	64,8	62.5		6.3	(0.03)	-
ITRAXX MN S07 10Y 06-09	-	(0.00)	upfront+300	28.4	29.2		6.6	(0.02)	-
TRAXX MN S07 10Y 09-12		(0.00)	spread	615.5	623.4		6.6	(0.01)	
ITRAXX MN S07 10Y 12-22		(0.00)	spread	285.0	291.2		6.6	(0.00)	
ITRAXX MN S07 10Y 22-100	-	0.00	spread	64,3	66.6		6.6	0.01	
TRAXX MN \$15 03Y 00-03	(68)	0.15	upfront+500	47.8	48.8		(3.6)	(0.55)	
TRAXX MN S06 10Y 00-03	(131)	0.12	upfront+500	74.8	74,5		6,3	0.78	
ITRAXX MN S15 07Y 03-06	(245)	0.43	upfront+500	34.5	35.7		(2.3)	(1.00)	
ITRAXX MN S15 05Y 00-03	(327)	0.42	upfront+500	61.5	62.1		0.4	0.15	
ITRAXX MN S15 07Y 00-03	(371)	0.40	upfront+500	68.5	69.3		(2.3)	(0.93)	-
By Family				Change di	ue to the OnTR 5Y	'Index		30,17	]
CDX HY	14,226	(3.41)	price	92.6	93.2	93,2	(15.3)	52,33	•
CDX IG	(6,987)	5.59	spread	122.3	118.3	118.3	(4.0)	(22.11)	
ITRAXX MN	45,815	(3.83)	spread	180,0	180.0	180.0	0.0	(0.05)	

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# Volume and activity update

	Gross notion	iał (\$mm)	Weekly activ	ity (\$mm)	% of notion	al traded
Series	Untranched	Tranched	Untranched	Tranched	Untranched	Tranched
CDXIG S09	818,852	557,464	31,954	7,851	3.90%	1.41%
Traxx MN S09	618,556	522,199	17,076	12,705	2.77%	2.43%
CDXIG S18	390,008	N/A	221,241	N/A	56.73%	N/A
iTraxx MN S16	292,720	N/A	7,532	N/A	2,57%	N/A
iTraxx MN S17	351,346	N/A	197,567	N/A	56.23%	N/A
CDXIG S17	239,782	2,100	19,678	137	8.21%	6,50%
CDX IG S16	178,415	N/A	697	N/A	0.39%	N/A
CDX IG S15	174,828	8,303	866	N/A	0.50%	N/A
CDX HY S17	72,421	650	4,924	N/A	6.80%	N/A
CDX HY S10	71,049	45,217	722	130	1.02%	0.29%
iTraxx XO \$16	63,828	N/A	1,110	N/A	1.74%	N/A
Traxx XO S17	72,023	N/A	47,157	N/A	65,48%	N/A
CDX HY S09	52,839	34,355	673	40	1.27%	0.12%
iTraxx FinSub S17	25,771	N/A	4,904	N/A	19.03%	N/A

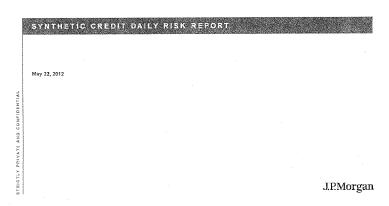
Source: DTCC (week ending 5/18/12)

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BANK PROPRIETARY AND/OR TRADE INFORMATION

### Executive summary

P&L (\$800s) 5/21/2012 (140,725) estimate

			Portfolio	Net	Since	% Chg.
	CSW10%	Tracing	lengthening	change	30-Apr	30-Apr
Current ¹	(160.1)	N/A	N/A	0.0	132.6	(45.3%)
21May	(160.1)	51.8	(7.7)	44.0	132.6	(45.3%)
30-Apr	(292.6)	258.1	(125.5)	132.6	0.0	

Collateral (5mm)			
RVIN MERITA CONTRACTOR AND AND AND AND AND AND AND AND AND AND	Description	Current	Prior day
Total (CIO - counterparty	)	\$42	-\$3
Largest counterparty	MS	27	11
Largestinstrument	Other	23	-9

Action	Target	Achieved
Reduced directionality	Sell \$110mm 10% CSW	\$216mm
	IG in US and Europe	(\$35.6bn)
Reduce compression	\$60mm 10% CSW in US	
risk	Set 11.5bn IG	(\$10.2bn)
	Buy \$3bn HY	\$0.5bn
Reduce basis trades	Buy EUR3.7bn of FinSub	(€0.4bn)
across existing inventory	Sell ELIR2.9bn iTraxx XO	€0.1bn
Roll partially fiquid	Convert BJR 18,4bn of	(€1.6bn)
OTR index to more	Tracks MN S16 to S17	

### Trades

- Bought protection €100mm FINSUB S17 5y M Sold protection \$500m CDX HY S 14,16, 17, 5y maturity
- Bought protection €1,759mm Track MN S16 5y

** Solid protection \$500m CDX HY S 14.1

 ** Bought protection €1,750mm Traxx Min

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DRAFT (5/22/12) Summary commentary

<ul> <li>P&amp;L \$(140.7)mm driven by</li> </ul>					
<ul> <li>Underperformance of IG</li> </ul>			H by (40	(LELY)	
<ul> <li>Compression in US HY</li> </ul>					
■ IG tranches (10mm), as widened	equety c	urves s	неерипо	aun enhe	Settion
Répresentative trade P	81. (Sr				
	Spread	(bps)	CS01	Spread	P&l.
	5/21	5/18	(\$mm)	change	(\$000s)
CDX KG S09 trade					
Directionality					33,628
On/Off the run					(61,201)
Curve					16,244
Total CDX IG S09 trade (A)					(11,329)
Traxx S09 trade					
Directionality					23,453
On/Off the run					4,806
Curve					(146)
Total (Traxx S09 trade (B)					28,113
hy Grade vs HY (US)					
Long: CDX IG S17 05Y	116	114	(3.6)	(2,231)	8,069
Long: CDX IG S18 05Y	122	120	(20.8)	(1.985)	41,278
Short CDX HY \$17 05Y	682	666	2.5	(15.717)	(38,608)
Subtotal		~			10,737
nv Grade vs HY (Europe					
Long: ITRAXX MN \$16 05Y	181	179	(5.6)	(1.525)	8,600
Short: ITRAXX MN S17 05Y	180	178	6,9	(1.872)	(12,825)
Short ITRAXX XO S16 05Y	714	706	2.1	(7.606)	(15,766)
Subtotal					(19,991)
Total IG vs. HY (C)					(9,254)
Tranche					
ITRAXX 5yr 0-3 vs. 10y 22-1					7,494
CDX HY 5yr 10-15 vs. 15-25					(17,705)
Yotal Tranche (D)					(10,211)

7,494 (17,705) (10,211) (2,681) JPMorgan

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# Risk and market summary (cob 5/21/12)

(\$mm)				5Yeqv.				DoD Change		Change sine		
			Notional	OTR Equ		10% CSW	5yr eqv.	CS01	CSW10%	CS01	CSW10%	
CDXIG			51,515	64,281	(30.9)	(511)	836	1.3	37.4	7.7	(4.0)	
CDXHY			(1,870)	(22,410)	7.6	485	834	(0.2)	0.5	(0.8)	24,1	
ITRAXX MIN			89,013	28,405	(11.9)	(300)	(7,301)	4.2	65.9	11.7	107.2	
ITRAXX XO			(8,689)	(8,301)	2.8	191	18	(0.0)	0.3	(0.4)	4.7	
TRAXX.FINS			(2,666)	556	(0.2)	(14)	(131)	0.1	2.2	0.3	10.2	
Direct Single	Name		800	900	(0.2)	(19)	600	(0.2)	(19.2)	(0.2)	(19.2)	-
Total			129,789	62,866	(32.6)	(160)	(4,820)	5.0	86.9	58.7	132.5	
Memo; CDX	1G S09		(32,723)	(3.666)	1.9	17	. 77	(0.1)	0.6	(0.2)	2.7	
Risk fals	90.00						6774		NAME OF STREET	A 1500 PM		
interested					Risk Fact							
	Line	terlying Di	rectionality	Curve	OTR/OF		HV Corre	ation (\$/10)	(change)			
				CS01 (Smm)								
CDXIG		(30.9)	17.9	8.2		21)		(123.8)	115.4			
traxx Main		(11.9)	(1.3)	5.1	(14			(132.5)	(33.2)			Beta
CDXHY		7.6	(1.149)	(0.4)		10	7.6	7.5	38.7	CDX	Y/KS	6.40
traxx XO		2.8	_	(4,14)			2.8		47		XD/Main	3.80
Braxx First	ab de	(0.2)	(0.2)	0.3	(C	1.5)	~	~	-			
Subtotal		(32.6)	16.4	13.1	(36	5,7)	10.4	(248.8)	120.9			
**************************************	i di maretare	HEARTHCONTAINED	16,4	13.1	(36	5.7)	10.4	(248.8)	120.9			
**************************************	unman	HEARTHCONTAINED	16.4			i.7)						
**************************************	ununan	HEARTHCONTAINED		13.1 Sprea 5/17/12		3/90/12		(248.8) Theoretical (				
Markets	Union Ar S185 yr	ž		Sprea	đ		Basis to	Theoretical (	bps spd)			
Markets	-	5/21/12	5/18/12	Sprea S/17/12	d 4/30/12	3/30/12	Basis to 5/18/12	Theoretical (	bps spd)			
Market's	- S185 yr	5/21/12 118.0	5/18/12 123.2	Sprea 5/17/12 123.0	d 4/30/12 94,7	3/90/12 91.5	Basis to 5/18/12 (1.9)	Theoretical ( 1 week (2.4)	bps spd) 1 month 3.1			
Market s		5/21/12 118.0 87.5	2 S/18/12 123.2 92.2	Sprea 5/17/12 123.0 89.4	d 4/30/12 94.7 68.1	3/30/12 91.5 70.8	Basis to 5/18/12 (1.9) (7.0)	Theoretical ( 1 week (2.4) 7.1	bps spd) 1 month 3.1 5.2			
Markets  CDXIG  CDXIY  ITrax Main	\$185 yr \$95 yr \$910 yr \$185 yr \$175 yr	5/23/12 118:0 87:5 158:0 671:0 180:5	2 5/18/12 123.2 52.2 160.4 720,7	Sprea 5/17/12 123.0 89.4 156.2 715.2 181.5	4/30/12 94.7 68.1 119.4 579.7	3/30/12 91.5 70.8 113.1 578.9	Basis to 5/18/12 (1.9) (7.0) (3.4) 84.0	Theoretical (1 week (2.4) 7.1 1.1 33.1 4.0	bps spd) 1 month 3.1 5.2 12.7 43.5			
Markets  CDXIG  CDXIY  ITrax Main	5185 yr 595yr 5910 yr 5185 yr 5175 yr 5910 yr	5/21/12 118.0 87.5 158.0 671.0	2 5/18/12 123.2 92.2 160.4 720.7	Sprea \$/17/12 1/23.0 89.4 156.2 7/15.2	6 4/30/12 94.7 68.1 119.4 579.7	3/30/12 91.5 70.8 113.1 578.9	Basis to 5/18/12 (1.9) (7.0) (3.4) 84.0	Theoretical ( 1 week (2.4) 7.1 1.1 33.1	bps spd) 1 month 3.1 5.2 12.7 43.5			

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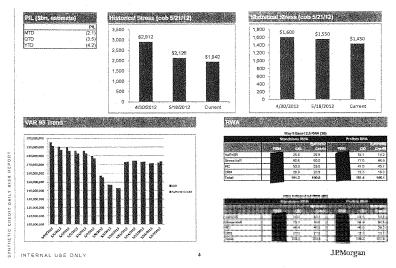
### Notional overview

#### DRAFT (5/22/12)

		Notice (1)	lmin) (ci	55201	2)		New coroll	mm) (co	is active	žį.		Change		
	Entrarce 114	IG 9 Other IG High Yield	Notional 48,460 9,355 (19,639)				IG 9 Other IG High Yield	Notional 82,460 (14,500) (20,609)				IG9 Other IG High Yield	Notional (34,000) 23,855 970	
's	Trace No. 10 Consequer	iTraxx Main iTraxx XO	Notional 33,313 (6,804)	*******			iTraxx Moin iTraxx Cross	54	tiona! .948 i,864)	***		iTraxx Main iTraxx XO	Notional (21,636) 60	
	Teatche positions	IG9 IG95yr IG HY ITraxx	Total (5,940) (22,400) (360) 17,769 36,395	Equity (1,355) (3,570) (195) 4,291 (3,230)	Mezz (33,020) (18,560) (285) 4,183 440	Senior 28,435 (270) 100 9,295 39,185	IG9 IG95yr IG HY ITraxx	Total (5,940) (22,400) (340) 17,789 36,395		Mezz (33,020) (18,560) (245) 4,203 440	Senior 28,435 (270) 100 9,295 39,185	IG9 IG95yr IG HY ITraxx	Total 0 0 (20) (20) 0	
RISK REPORT	Uther publicant	FinSub LCDX	Long 2,551 4,075	Short (4,649) (1,688)			FinSub LCDX	3		Short (,649) 1,688)		FinSub LCDX	Long (500) 0	Short 0 0
THEFT CREDIT DAILY	Stemo: IG 8 exposure thy maturity)	IG 509 05Y IG 509 07Y IG 509 10Y IG9	34,193	-			CDXIG S0 CDXIG S0 CDXIG S0 IG9	9 05Y (3 9 07Y 3 9 10Y 8	lotional 32,723) 34,193 30,989 32,460			IG 509 05Y IG 509 07Y IG 509 10Y IG9	Notional 0 0 (34,000) (34,000)	
SYMIN	INTERNAL US	SE ONLY					3						I.P.Morga	un

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# Synthetic credit book - key metrics



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Subcommittee on Investigations

### Summary of Synthetic Credit Book - historical stress

# Pricing to equilibrium: In addition to below risk factors, some indices will lose value as they move from richness to fairness a Synthetic credit book exposed to six risk factors — Each factor represents a directional exposure as In the short-to-medium term, these exposures can be partially mitigated — But not aliminated.

			5/21/12	4/30/12
	Risk Factor	Description of when position loses money	Historical worst single day	Historical worst single day
200000000000000000000000000000000000000	Credit spread widening (Directionality)	ब If credit spreads widen across markets	\$1,006mm	\$162mm
on the second	2. Maturity mismatch (Curve)	M If credit spreads of long-maturity positions get wider relative to short-maturity positions	37mm	89mm
	3. High Yield vs. Investment Grade	a If high yield positions outperform investment grade positions relative to their portfolio weighting	3,005mm	3,921mm
	4. Illiquidity of older Indices / Tranches (On-the-Run vs. Off-the-Run)	■ If credit spreads of the older index (the "off-the-run" index) widen relative to more-recently issued indices (the more "on the run" indices)	68mm	1,252mm
REPORT	5. "Super senior" debt vs. "equity" positions (Tranches)	■ If there is an increase in the correlation implied between defaults among names within the tranches	505mm	502mm
LY RISK	Default risk     (Risk on individual names)	a If credit events happen to companies for which we have "sold protection"	NA	NA
IT DAI		Portfolio werst day	\$1,940mm	\$2,912mm
CREDI		Sum of worst case	\$4,620mm	\$5,927mm
SYNTHETIC				
N Y	INTERNAL USE ONLY	. 5	J	P.Morgan

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#### Summary of Synthetic Credit Book – statistical stress

- Pricing to equilibrium. In addition to below risk factors, some indices will lose value as they move from richness to fairness
   Synthetic credit book exposed to six risk factors Each factor represents a directional exposure
   In the short-to-medium term, these exposures can be partially mitigated But not eliminated

INTERNAL USE ONLY	6.	J.	PMorgan
	Est. total diversified 95% loss potential	\$1,430mm	\$1,600mm
Default risk (Risk on individual names)	Ellf credit events happen to companies for which we have sold protection."	291mm	291mm
5, "Super senior" debt vs, "equity" positions (Tranches)	# If there is an increase in the correlation implied between defaults among names within the tranches	490mm	500mm
4. Illiquidity of older Indices / Tranches (On-the-Run vs. Off-the-Run)	s If credit spreads of the older index (the "off-the-run" index) widen relative to more-recently issued indices (the more "on the run" indices)	490mm	850mm
3. High Yield vs. Investment Grade	# If high yield positions outperform investment grade positions relative to their portfolio weighting	1,030mm	- 1,130mm
2. Maturity mismatch (Curve)	# If credit spreads of long-maturity positions get wider relative to short-maturity positions	140anm	160mm
Credit spread widening (Directionality)	# If credit spreads widen across markets	\$640mm	\$430mm
Resk Facini	Description of wheat position loses in bitely	95% de foss potential ⁴	95%/le loss potestial

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### 2321

DRAFT (5/22/12)

### Synthetic Credit risk factors details

Scenario	Sigma L	oss (\$mm
90.0% percentile	1.28	1,170
95,0% percentile	1.64	1,436
97.5% percentile	1.96	1,670
99.9% percentile	3.09	2,550
Downside Case A ¹	N/A	3,08
Downside Case B ²	N/A	5,175

### Assumptions belind analysis

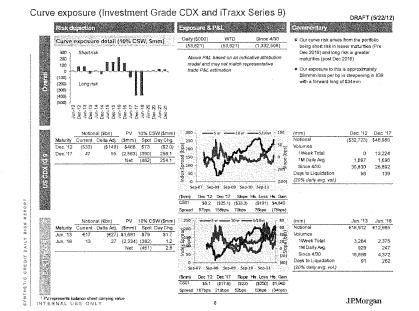
- a Credit spread widening (Directionality) Net directional loss estimate assumes correlation based on 1yr data
- Volability measured as relative movement of longer maturity spread vs. shorter maturity spread adjusted for overall drift
   Combined across asset classes assuming zero correlation
- ≅ High Yield vs. Investment Grade
- Volatility based on relative spread movement netted for overall directionality
- Assumes zero correlation between these differences for US and Europe
- n Illiquidity of older indices/Tranches (On-the-run/Off-the run risk)
- Series 9 is assumed as the off-the-run position
   Risks are combined assuming zero correlation
- # "Super senior" debt vs. "equity" positions (Tranches) Risk factor based on extreme movements of correlation as seen during the credit crisis
- Default risk (Risk on individual names) Exposure based on comprehensive simulation of default risk using capital model
- B Diversified sum All above risk measures combined assuming zero correlation

* Diversified sum of 95.0% percentile; * Diversified sum of 99.9% percentile
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# Investment Grade vs. High Yield (Compression)

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	Risk depiction			Exmission ?	17.1				Commentary		
III III	CDX HYR CDX	"places in the same of a	Smm (511) 484	P&L (\$900s) Compression CDX (G vs. HY )Traxx MN vs. XC Other	(6	Daily (5,821) (1,084) (1,187)	(55,821) (61,084)	(347,464) (59,307) (306,106) 17,949	We are long investing High Yield such that widens (narrows) less 5:1 to investment Gr	we lose if High is (more) than	Yield
B _N C	ITRAXX MN/FINSEN/ ITRAXX XO/FIN SUB	sovx	(292) 177	Above P&L . model and n trade P&L e.	nay not r	natch repi		tion			
		CDXIG	CDXHY	2,000			G	6 Ratio   12	(Smm)	CDXIG (S17/S18)	CDXHY (S17)
	(\$mm) Maturity	(S17/S18) 3/21/2017	(S17) 12/20/2016	1,000	. M	Pro-			(amin) Notional	\$52,177	(\$7,271)
	Notional	\$52,177	(\$7,271)	500	~	P	Special Services	4	Valumes	404,111	(41,411)
100	CS01	(24.4)	2.5	0			The State of the S		1Week Total	125,133	18.045
	10% CSW	(290.8)	160.5	3/07 3/0	B 3/	09 3/1	0 3/11	3/12	1M Daily Avg.	17.968	2.646
	CSW 10% Change	(200.0)	100.5			Current	Histo	rical	Since 4/30	316.892	44,671
	Close of Day	(191.9)	(9.1)	(\$mm)	CS01	Spread	Loss	Gain	Days to Liquidation	15	14
	Close of Week	(187.5)	(5.8)	IG (S17/S18)	(24.4)	118	***********		(20% daily avg. vol.)		
	Since April 30	(164.4)	(2.3)	HY (S17) 3G vs. HY ratio	2.5	678 5.75x	(\$507.4) 4.00x	\$1,008.3 9.23x			
EPORT	nur.										
d a	(Smm except	iTraxx MN	iTraxx XO	1,000	85		X0-M	N 12 N Ratio _ g		(S16/S17)	iTraxx XO
T	notional)	(S16/S17) 3/21/2017	(S16) 12/20/2016	750	1.	W		An .	(€mm) Notional	(£1,194)	(S16) (€5.017)
RISK	Maturity Notional		(65,017)	250	Station.	and the	State of Street		Volumes	(E1,104)	(65,011)
	CS01	(€1,194) 1.2	2.1	, °					1Week Total	83,546	21,696
DAILY	10% CSW	21.2	143.3	3/07 3/0	18 3/	09 3/	0 3/11	3/12	1M Daily Avg.	12.225	3,903
0	CSW 10% Change	21.2	143.3			Current	Hist	niral	Since 4/30	209,001	63,372
- 1	Close of Day	16.2	(0.3)	(\$mm)	CS01	Spread	Loss	Gain	Days to Liquidation	8	6
CREDIT	Close of Week	76.0	1.4	MN (\$16/\$17)	1.2	181			(20% daily avg. vol.)		
	Since April 30	185.6	(1.5)	XO (\$16)	2.1	744	(\$203.5)	\$2,230,5			
D 1 2				MN vs. XO ratio		4,12x	3.58x	10.08x			
SYNTHETIC	FERNAL USE ONL	Y			9					JPMorg	gan

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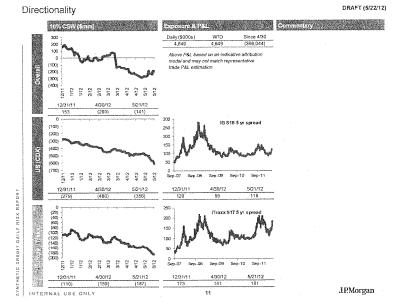
### 2324

#### DRAFT (5/22/12)

### Off-the-run index risk

	Resk da					1207	aminimiz.	PAL		Commentary		
100			nal (Sbn)	PV		t (Smm)	Daily (\$000s)	WTD	Since 4/30	a This refers to the ris	sk that we hold	large,
						Day Chg.	(18,239)	(18,239)	(102,348)	concentrated position		un indices in
	CDX IG9		55,308	(2,563)	(25)	16.2	Above P&L bas	sed on an indic	ative attribution	IG CDX and Traxx		
2	iTraxx S9		35,001	(2,334)	(18)	(0.1)	model and may					
	Total	63,570	90,309	(4,897)	(43)	16.1	trade P&L estin	mation				
100mb	(\$mm).		IG 9 10vr	JG	18 5yr		SYO	IR 10Y59	OTR/59	(Smm)	IG 9 10vr	KG 18 5
63	CS01		(25.1)		(20.8)		300	al Pariti	- 60	National	\$46,989	\$43,839
	Change						250	· Mary	70 Lad 10	Volumes		
Section 1	Close	of Day	16.2		(16.1)		200 • 1		20	1 Week Total	13,224	125,133
	Cinse	of Week	17.1		(15.2)		150	MALL . INC.	MA CO	1M Daily Avg.	1,696	17,966
<b>F</b>	Since A	April 30	20.0		(12.2)		2.71	A mothern	(20)	Since 4/30	28,892	316,892
经	-						100	Γ	[40]	Days to Liquidation	139	12
85.26							S0 1		F (60)	(20% daily evg. vol.)		
							0	8 Sep-09 Sep-	(30) 10 Sep-11			
				<b>.</b>				8 Sep-09 Sep			4815040	INI COTE
	(Smm)		MN S9 10yr	MN S	517 5 ys			8 Sep-09 Sep-		(Emm)	MN 59 10yr	
	CS01		MN S9 10yr (17.6)	MN S	17 5 yr 6.9	_	Sep-07 Sep-08	8 Sep-09 Sep-	10 Sep-11	Notional	MN S9 10yr €16,581	MN S17 5 y (€15,287
	CS01 Change		(17.6)	MN S	6.9		250	8 Sep-09 Sep- 378 —— 10759	10 Sep-11		€18,581	(€15,287
	CS01 Change Close		(17.8)	MN S	6.9		Sep-07 Sep-08	8 Sep 09 Sep 778 —— 10759	10 Sep-11	Notional Volumes		(€15,287 83,548
	CS01 Change Close	of Day	(17.6)	MN S	6.9		250	8 Sep-09 Sep-	018/59 50 40 20 20 10 0	Notional Volumes 1Week Total 1M Daily Avg.	€18,581 2,375	(€15,287
	Change Close of Close of	of Day	(17.6) (0.1) 0.4	MN S	6.9 0.0 3.5	<u>.</u>	Sep-07 Sep-08	8 Sep-09 Sep-	OTR/59 50 40 30 20 11 10 0 110 120 120	Notional Volumes 1Week Total 1M Daily Avg. Since 4/30 Days to Liquidation	€18,581 2,375 247	(€15,287 83,546 12,225
E Comment	CS01 Change Close ( Close (	of Day	(17.6) (0.1) 0.4	MN S	6.9 0.0 3.5	-	250 — 510 760 150 — W	8 Sep-09 Sep- 078 ——10759	OTA/59 50 40 20 10 10 12 10 13 13 13 13 13 13 13 13 13 13 13 13 13	Notional Volumes 1Week Total 1M Dally Avg. Since 4/30 Days to Liquidation	€18,581 2,375 247 4,372	(€15,287 83,548 12,225 209,00°
	CS01 Change Close ( Close (	of Day	(17.6) (0.1) 0.4	MN S	6.9 0.0 3.5		250	)18 — 10Y59	OTR/SS 50 40 40 40 10 10 10 10 10 10 10 10 10 10 10 10 10	Notional Volumes 1Week Total 1M Dally Avg. Since 4/30 Days to Liquidation	€18,581 2,375 247 4,372	(€15,287 83,548 12,225 209,00°
	CS01 Change Close ( Close (	of Day	(17.6) (0.1) 0.4	MN S	6.9 0.0 3.5	-	250	078 — 10759	OTR/SS 50 40 40 40 10 10 10 10 10 10 10 10 10 10 10 10 10	Notional Volumes 1Week Total 1M Dally Avg. Since 4/30 Days to Liquidation	€18,581 2,375 247 4,372	(€15,28) 83,546 12,225 209,00
	CS01 Change Close ( Close (	of Day of Week April 30	(17.6) (0.1) 0.4 1.8		6.9 0.0 3.5		\$50.05 PM	078 — 10759	01A/S9 50 40 30 30 10 10 5c-11	Notional Volumes 1Week Total 1M Dally Avg. Since 4/30 Days to Liquidation	€18,581 2,375 247 4,372	(615,287 83,546 12,225 209,001 (

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#### Tranche Risk

	Risk depiction			Exposure & P.E	1		Commentary
	Correlation 10% s	biff"		Daily (\$000s)	WTD	Since 4/30	
	Page 1 and the second	s and a state of the state of the	Salahan S	TBU	TBU	TBU	
455	index name .	Tranches	Total				
	CDXIG Junior	0-30%	122			oative attribution	
	CDXIG Super Senior	30-100%	(163)	model and may trade P&L estin		presentative	
Ŧ	CDXIG Total	0-35%	(41) 34	vade P&L estr	napon		
	CDX HY Junior	35-100%	34 7				
	CDX HY Super Senior CDX HY Total	35-100%	41				
1880	iTrax Junior	0-22%	(32)				
	iTraxx Super Senior	22-100%	(157)				
100	iTranx Total	22-100%	(188)				
1	Grand total		(188)				
	Grand total		(100)				
20803		Long IG 9	Short				
		Super Sr. 10yr	0-30				
1000	10% Corr 01	(17)	25				
-	Change						
	Week To Date	-2.10	0.27				
1 100	Since April 30	-2.60	0.50				
- 20000				Graphs of 1	7% correlatio	n shift	CIO Val traded since Apr 30th
200				Theoretical i		s based on 10%	Implied Daily, weekly P/L
		Long (Traxx 9	Short				
X S		Super 10yr	0-22				
	10% Corr 01	-15	11				
	Change Week To Date	-0.67	~0.39				
7	Since April 30	-0.89	-0.90				
	Since April 30	-0.09	-0.90				
CRSD							
5							
NYHETIO	Correlation data as of COB 4	4/4					
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# Default profile

9	Total exposure									
PESSA		# Names	P&L give	n #Names	P&Lg	iven				
	# (	of w/ default								
	Portfotio nam	es loss risk	Avg.	Max gain risk	Aug.	Max				
183	Portfolio (today) 6:	75 61	(\$34) (\$2	(12) 614	\$145	\$615				
	Portfolio (post Dec. 12) 6:	72 222	(284) (6	79) 450	124	615				
5.3	IG9 enly (today) 1;	21 0	0	0 121	233	481				
<b>.</b>	IG9 only (post Dec. '12) 1:	21 121	(485) (6	79) 0	0	0				
	Top 5 exposures									
	Loss					#15010000000	Sain			
	Pre December 2012	(Smm)	Post Decemi	har 2017	(Smm)		Pre December 2012	(Smm)	Post December 2012	(Smm
	1. 1-3 Communications	(212.4)	1. Weth Lic		(679.3)		I. R.R. Dannelley & Sons		Brunswick Corporation	
	Corporation	fm 141.13			(0.0.0)		Company			2003
	2. Celestica Inc.	(191.6)	2. Comcast	Cable ications Lic	(677.7)	:	2, Radian Group Inc.	431.9	The New York Times     Company	253.5
	<ol> <li>Allied Waste North Americans</li> </ol>	ca, (170.9)	3. Rohm And Company	d Heas	(670.2)	;	3. Liz Claibome, Inc.	416.9	The Tjx Companies, inc.	235.3
	Fairfax Enancial Holdings     Limited	(167.9)	4. Rio Tinto		(665,1)		1. Gannett Co., Inc.	414.0	4. Dean Foods Company	231.0
	Altel Corporation	(113.8)	<ol><li>Wells Far Company</li></ol>		(635.8)		5. Lennar Corporation	413.8	5. Temple-Inland Inc.	224.3
25122	Pre June 2013	(\$mm)	Post June 20	113	(\$mm)	-	Pre June 2013	(Smm)	Post June 2013	(\$mm
離 -	1. Imperial Chemical	(1.6)	1. Imperial C	Chemical	(1.5)	-	t. Gas Natural Solo, S.A.	615.1	1. Gas Natural Sdg. S.A.	615.1
	2. Atadis Sa	(1.5)	2. Altedis Sa	3	(1.5)		2. Gdf Suez	553,5	2. Gdf Suez	553.5
	3. Hanson Limited	(0.1)	3. Royal & S Insurance		(0.6)	:	Unicredit, Societa Per Azioni	483.3	<ol> <li>Edp - Energias De Portugal, S.A.</li> </ol>	452.3
	L'Air Liquide Societe     Anonyme Pour L'Etude Et     Exploitation Des Proced		The Royal Scotland		(0.5)		<ol> <li>Banca Monte Dei Paschi Di Siena S.P.A.</li> </ol>	469.4	Portugal Telecom International Finance B.V.	448.4
	Deutsche Bahn     Aktienges ellschaft	(0.0)	5. Hanson L	imited	(0.1)		<ol> <li>Banco Biřbao Vizcaya Argentaria, Spoledad Anonima</li> </ol>	462.3	Banca Monte Dei     Paschi Di Sièna S.P.A.	445.4
	NAL USE ONLY				13				J.P.Morgar	1

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### Limits

		Usage	Synthetic		Usaga	Syntheti
Lit	mit (\$mm)	5/21/12	Limit	Limit (\$mm)	5/21/12	Limi
cs	01 Unadjusted			VaR	158.5	180.0
	CDXHY	7.6	8.6			
	CDXLCDX	(0.0)	1.8	Compression		
	CDXIG	(30.9)	39.4	US Compression Limit	484.5	496.0
	iTraxx MN	(11.9)	23.7	EUR Compression Limit	176.9	174.0
	Traxx XO	2.8	3,3			
	iTraxx Finsub	(0.2)	0.6	Tranche Limits		
	Traxx Finsen	0,3	0.5	10% Corr Shift	(188.2)	175.0
CS	SW10%			Steepen10%		
	CDXHY	484.8	496.0	CDXHY	(69.4)	64.6
	CDXLCDX	(0.3)	0.1	CDXLCDX	0.1	0.5
	CDXIG	(510.7)	549.0	CDXIG	(430.1)	436.0
	Traxx MtN	(300.1)	434.0	Tracor MN	(175.2)	265.0
	Traxx XO	191.3	201.0	iTraxx XO	61.2	65.5
	Traxx Finaub	(14.3)	27.0	iTraxx Finsub	(25.3)	30.
	iTraxx Finsen	8.5	12.0	iTraxx Finsen	4.3	6.0
La	rge Index Notional	s				
	CDXIG.9.7Y	34.2	34.2			
	CDXIG.9.10Y	47.0	81.0			
	iTraxx S9 7Y	5.4	5.4			
	Traxx S9 10Y	13.0	13.0			

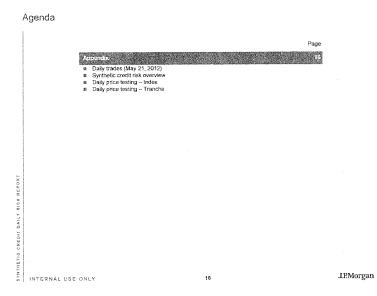
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Secretary   MTM	CTINCALIZ SCORRESSOCIALIZAÇÃO	607:00HPV 90H1-475	MARKO CHARLOS		By instrum	ent (\$mm				8	
Description   MITM	2010/2012/2012/2012/2012/2012	Sum of	Sum of CP	Sum of MIM	Distribution	eaper-seems.	DCDCINGSON/SELF-COM	Sum of CP	WE SEE ALLOWS IN		
Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart   Mart	Counterparty			Diff	Instrument		Sum of MTM	MTM Su	not MIMIO	rf .	
BBASA   0		(33)	(34)	1	COX IG S09 101	/ DO-03	(1,419)	(1,416)	(2	3)	
Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Sect	BVASA			0	ITRAXX MIN SOE	10Y 06-09	56	67	(11	1)	
REC	NPP	294	304	(10)	COX HY 509 05	Y 15-25	7	13	(6	5)	
1999   1	3CA	39	44	(5)	CDX HY S08 05	Y 10-15	33				
1	BRLC	(113)	(111)	(2)	TRAXX MN S05	9 10Y 2Z-100					
Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Comp	BKAG	(1)	(1)	0	COX IG S09 051	r 00-03	450				
SS	CGML	(2)	(7)								
CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONT	ZIII	(278)									
299/AG   397   392   15		(217)									
12   12   13   14   15   15   15   15   15   15   15	CSX	(60)	(64)		CDX IG 509 101	/ 15-30					
SBCCID   16   16   17   17   18   18   19   19   19   19   19   19	DBKAG	397	392								
## ## ## ## ## ## ## ## ## ## ## ## ##	358	(22)	(34)	1.2	Total		67	25	47	2	
NU S 5 (0)  NSCS 111 64 27  NSSL (86) (54) (2)  NSSL (77 77 77 70 0)  SIGNAC (76) (13) (22)  SIGNAC (76) (13) (22)  SIGNAC (76) (13) (22)  SIGNAC (76) (13) (22)  SIGNAC (76) (13) (22)  SIGNAC (76) (13) (22)  SIGNAC (76) (13) (22)  SIGNAC (76) (13) (22)  SIGNAC (76) (13) (22)  SIGNAC (76) (13) (22)  SIGNAC (76) (13) (14) (14) (14) (14) (14) (14) (14) (14											
MSS   111   64   27	-ISBCUS										
ASS. (96) (54) (7) (7) (9) (989FLC 77 77 0 9) (989FLC 77 77 0 9) (989FLC 77 77 0 9) (989FLC 77 77 0 9) (989FLC 77 77 0 9) (989FLC 77 77 0 9) (989FLC 77 97 77 0 9) (989FLC 77 97 97 97 97 97 97 97 97 97 97 97 97											
SAME   115   115   0											
SBSPLC   77   77   0     0											
SCOB   (32)   (13)   (22)											
CIO P.V. Differences with TarkT pricing											
CIC PV Diligrances with   Sard   Fricing											
	Total	67	25	42							
	THE PERSON NAMED IN		CATALOGICAL STATE				S. 10.24				
Modif   V   V   December   Modif   V   V   Grounding   Modif   V   V   Grounding   Politica   Pol		neisen sie						200			
Modif   V   V   December   Modif   V   V   Grounding   Modif   V   V   Grounding   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Politica   Pol	STREET STREET				Transport of the same of			Pricing to	loranco1		
Charge	ingex (3mm)				Translet John)		HERE LIEUE	AL MUNICIPAL CONTRACTOR	described by		20.208.222.00
Series 09 holdox											
Cher Index   (138 9   (130 9)   Other Index   20 3   15.9   Index - IH   1 tops   Markil   Aggregate max. 15								Туре	Турю	Sauce	
Subdecia								index IG	14 tepes	Markt	Aggregate max: \$50mm
Sy Family   By Family   Express   Substitution   Desert quasas   Per position								Index HY	1 bps	Markit	Aggregate max: \$50mm
CDX/G 103.1 CDX/G 56.7 CDX/H7 (180.2) CDX/H7 (18.5) TRANOVIMN 3.3 TRANOVIMN 1.3	Subtotal		(61.9)	(73.1)	Subiolai	19.0	16.6	Tranche	\$2mm	Dealer quotes	Per position
CDX/G 103.1 CDX/G 56.7 CDX/H7 (180.2) CDX/H7 (18.5) TRANOVIMN 3.3 TRANOVIMN 1.3	D. C				Du Comb.						
CDX.HY (180.2) CDX.HY (18.5)  JRAXX MN 3.3 JRAXX MN 1.3			402.1			56.7					
STRAXX MN 3.3 STRAXX MN 1.3											
One. in OnTROY (78.5)		-			a g. 000 to (8111 01	41.5					

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### New trades

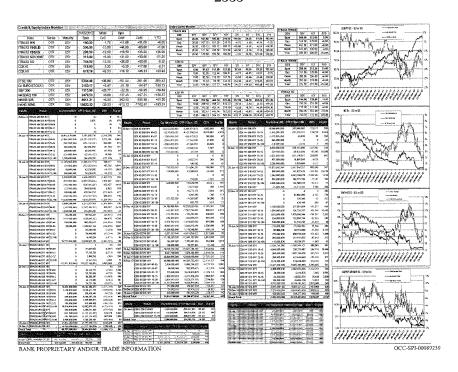
									Previous		Clasia
						Traded	Traded	Previous	Day	Closing	Spre
#	Rink	Notional	Product	Maturity	Counterparty	Price	Spread	Day Price	Spread	Price	(bps
1	SHORT	(100,000,000)	TERAXX FINSUS S17 DSY	20-Jun-17	SOCGEN		514.00				
2	SHORT	(250,000,000)	STRAXX MN S16 05Y	20-Dec-16	BMP LDN		182.00				
3	SHORT	(250,000,000)	TRAXX MN S16 05Y	20-Dec-16	BNP LON		182.00				
4	SHORT	(250,000,000)	TRAXX MN S16 05Y	20-Dec-16	BNPLDN		182.00				
5	SHORT	(250,000,000)	TRAXX MN S18 05Y	20-Dec-16	BNPLDN		182.00				
6	SHORT	(250,000,000)	TRAXX MN S16 05Y	20-Dec-16	BNP LON		182 00				
7	SHORT	(250,000,000)	TRAXX MIN \$16 05Y	20-Dec-16	BNP LON		182.00				
8	SHORT	(250,000,000)	ITRAXX MN S16 05Y	20-Dec-16	BNPLON		182.00				
9	LONG	100,000,000	CDX HY S14 05Y	20-Jun-15	BOA CHARLOTTE	96.94					
10	LONG	50,000,000	CDX HY \$16 05Y	20-Jun-16	SNP LON	95.87					
11	LONG	100,000,000	CDX HY S17 05Y	20-Dec-16	BNP LDN	93.92					
12	LONG	200,000,000	CDX HY 517 05Y	20-Dec-16	BOA CHARLOTTE	93.94					

OCC-SPI-00089239

J.P.Morgan

BANK PROPRIETARY AND/OR TRADE INFORMATION

					International by					***************************************	-		Commenta	ry - COB 21	I-May:			
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ROUGHSOLE SEXT DUSCON	207,425	566,473,966 -596,000,006	5,500,517	49,421,206	-76,394,533 65,810,727		1 '	11.223		i	- 1			MTM & AFS):				
SCYXVE	2002,728	-889/2007/2009	0,300,517	40,01,00	05,610/27	14,220,154		3 -17.55		- 1	1		Secured Creat	MIM & APS):				
		9				-338,586,006		3 3			- 1		<ul> <li>Fould ore</li> </ul>	dit nisk -521mm	IORCSW.	31,4rmn CS01		
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U.D. MICHESON	1,000,791,30	4,877,712,531,3	4 .4501752	1 6	346 900,564	-LEO/201913	-36,501/538	-2439 721,353	\$,£32,794,501	16548,541,56			12,055,555,00	1347.925,101	-304 (\$5.183)	25 (04.514	\$2,126,738	81377
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AJX MN04-08	715,060,00	4,199,893.5	N -1179.140	1,570,685	-24 3(2,27)	-109,712 652	-MANAGE	-131,694,596	715.000,000	715,000,00		1 1		-24,342,770				
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2000	4.325.000.00		14 2,772.00	47,86	95,998,717	20,964,95	34,160,060	479,790,348	4,000,000,000	-685,000,00	sei -	of a	1 3	96,996,7177	\$7,187,24	0 340-014	3,672,090	15.764
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LC03 15-190	7,907,000,00	800;545,2			-2.756 acc	426402	2.256,325	-18.072,752	1.985006.000			5 0		2.1X-03	-1 \$35,50		700,227	-726
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### Daily price testing - Index

CIO PV Differences wi cos: 2012-05-21	overnesson and Christians	TO AND THE PROPERTY OF THE PARTY  *****************	***************************************			Total Index	(61.91)	(73.07	
	USD Factored	Credit Spread		OIO Quate	Morkit Quote	ICE Quote	Mark/T Spread	MarkIT PV	PV Exceeding
Product	Notional (\$ mm)	BP Value (\$ mm)	Price Type	(LON Close)	(NYALON Glose)	(NY/LON Close)	Difference	Change (\$ mm)	Cap (5 mm
Series 09 index							-	77.62	57.83
CEX IG S09 10Y	45,485	(22.75)	spread	159.8	157.5	157.8	(2.3)	51.44	40.00
CEX IG 509 07Y	33.099	(8.33)	spread	120.0	117.4	117.5	(2.6)	21.68	17.52
	(31,675)	1.86		89.3	87.7	87.4	(1.5)	(2.87)	(1.93
CCX XG SIC9 05Y	21:596	(2.33)	spread	154.1	164.2	164.1	0.0	(0.06)	(4.06
ITRAXX MIN S09 05Y			spread	220.0	219.3	220.0	(0.8)	(0.00)	2.20
FTRAXX, MN S09 10Y	15,581	(8.79)	apread			220.0	(0.4)	0.83	2.2.
TTRAXX MIN S09 07Y	6,832	(2.01)	spread	194.4	194.0		(U.4)	0.83	-
Other Index							[	(139.53)	(130.90
CEIX IG S18 05Y	43,839	(21.06)	spread	120.8	118.1	118.1	(2.7)	\$6,00	45.47
CDX HY SD8 05Y	15,430	(0.13)	price	100.1	100,1	100.1	(13.3)	1.71	1.58
CEIX NG 517 05Y	8,338	(3.66)	spread	114.3	111.6	111.5	(2.7)	9.81	7.58
CDX HY 909 05Y	5,696	(0.33)	price	100.4	100.3	100.4	20.2	(6.71)	(6.38
CDX HY S11 07Y	3,703	(1.15)	price	98.3	96.4		(6.4)	7,30	6.1
CDX HV S11 05Y	994	(0.15)	price	101.0	100.9	101.2	4.4	(0.68)	(0.5)
CDX IG S08 07Y	434	(0.09)	spread	165.3	135.9	134.8	(29.3)	2,55	2.5
CDX KS 515 10Y	302	(0.23)	spread	143.3	141.0	140.3	(2.2)	0.52	0.40
CDX IG \$14 10Y	257	(O.1B)	spread	131.8	133.2	132.5.	1.5	(0.27)	(0.18
CDX IG S15 10Y	(54)	0.04	spread	133.8	136,3	135.1	2.5	0.10	0.00
CDX HV S14 09Y	(73)	0.01	price	101.5	101.4		5.7	0.04	0.04
CDX HY S08 07Y	(180)	0.04	price	96.3	99.5		(10,9)	(0.38)	(0.35
CCX HY S16 05Y	(500)	0.19	price	92.5	93.2	93,2	(16.4)	(3,08)	(2.89
CEX IG S07 07Y	(704)	0.11	spread	127.3	143,5		16.2	1.78	1.73
CDX LCDX S10 D5Y	(1,165)	0.13	price	101,6	101.5		11.6	1,48	1.40
CZX HY S10 07Y	(2,049)	0.57	price	100.3	100.7		(16.6)	(9.65)	(9.0
CDX HY S16 D5Y	(6,511)		price	96.3	96.7	97.0	(12.0)	(26,71)	(24.4)
CDX HY S17 05Y	(7,052)		price	93.8	94.4	94,5	(15.3)	(38.15)	(35.6)
CEX IS \$14.06Y	(7,657)		spread	91,3	88.5	88.4	(2.8)	(6.50)	(5.3
CDX HY S10 05Y	(9,134)		price	101.B	101.7	101.8	(3.8)	(3.71)	(2.7)
CDX HY S15 05Y	(9,618)		price	97,8	98.2	96.4	(13.2)	(39.14)	. (36.1)
GDX HY S14 05Y	(11,977)	3,30	price	99.1	99.5	99.7	(12.0)	(39.41)	(36.1)
CDX 1G S15 05Y	(17,159)		spread	100.8	97.7	97.B	(3.0)	(18.15)	(15.1-
INTERNAL USE ON	l Y				20			J.P.	Morgan

BANK PROPRIETARY AND/OR TRADE INFORMATION

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# Daily price testing (cont'd) - Index

CIO PV Differences ( coe 2012-05-2)		manuscrater de la Maria	No Commission of Contract of C	000000000000000000000000000000000000000	ILLER CONTRACTOR CONTR		Total Index	(61.91)	(73.07
	USD Factored	Credit Spread		CIO Quote	Markit Quote	ICE Quote	MuskIT Spread	Mark/T PV	PV Exceedin
Product	Notional (\$ mm)	BPValue (\$ mm)	Price Type	(LON Close)	(NYALON Close)	(NYALON Close)	Difference	Change (\$ mm)	Сар (\$ пи
Aher Index								(139.53)	(136.90
CCIX IG S16 05Y	(18,229)	7.20	spread	109.3	106,8	106.3	(2.5)	(17.69)	(14.09
TTRAXX MN S16 05Y	13,763	(5.73)	spread	180.3	180,1	190.3	(0.1)	0.96	
FTRAXX MN S15.05Y	5,185	(1.94)	spread	184.2	183.0	184.2	(1.2)	2.23	1,26
JTRAXX FINSUS \$14 05Y	1.666	(0.49)	spread	502.0	507.1		5.1	(2.51)	(2.27
TRAXX FINSUS \$16 05Y	1,336	(D.53)	spread	523.0	526.7		3.7	(1.97)	(1.71
ITRAXX MIN S15 07Y	1,130	(D.59)	spread	200.6	199.2		(1.4)	0.81	0.52
ITRAXX FINSUS \$17.05Y	268	(0.12)	spread	506.0	506.7		0.7	(80.0)	(0.02
ITRAXX MIN S06 10Y	102	(0.04)	spread	220.6	229.5		7.8	(0.32)	(0.29
TRAXX FINSUB S07 05Y	(119)	0.00	spread	591.0	468.5		(122.5)	(0.12)	(0.12
TRAXX XD S17 05Y	(555)	0.19	spread	743,0	741.0	743.D	(2.0)	(0.38)	(0,19
TRAXX FINSUS \$15.05Y	(581)	0.19	spread	520.0	523.2		0.2	0.04	
ITRAXX FINSUB 508 05Y	(674)	0.04	spread	448.0	435.2		(11.8)	(0.46)	(0.44
TRAXX FINSEN \$17 05Y	(700)	0.29	spread	298.0	298.9		0.9	0.27	0.12
ITRAXX FINSUB \$12,05Y	(991)	0.22	spread	467,0	487.7		0.7	0,17	0.05
TRAXX FINSUS \$10.05Y	(1,411)	0.21	spread	477.0	463.2		(13.8)	(2.90)	(2.79
ITRAXX MIN S16 10Y	(1,692)	1.26	spread	195.3	194.6	195.3	(0.7)	(0.86)	(0.24
TIRAXX XO S15 05Y	(1,727)	0.54	spread	658.3	657.2	658.3	(1.0)	(0.57)	(0.03
TRAXX MN S15 10Y	(2,084)	1.47	spread	202.6	203.3	202.6	0.7	1.05	0.31
TRAXX FINSUR 509 05Y	(2,161)	0.23	spread	457.D	446.8		(10.2)	(2,31)	(2.20
ITRAXX MIN \$15 09Y	(3,587)	0.73	spread	158,6	156.6		(2.0)	(1.47)	(1.11
TRAXX XD 516 05Y	(5.406)	2.11	spread	709.5	709.5	709.5			
TRAXX MIN \$17 05Y	(15,287)	6.97	spread	179.6	179,3	179.6	(0.3)	(2.07)	-
By Family				Change in t	he OnTRSY Cor	strant	F	(79.52)	
CDX IG	56,276	(38.75)	spread	120.8	118.1	118.1	(2.7) L	103.06	
CDX HY	(21,380)	11.00	price	92.5	93.2	93.2	(16.4)	(180,16)	
FERANX MIN	42,538	(11.00)	spread	179.6	179.3	179.6	(0.3)	3.26	
PRAXX XO	(8.639)	284	spread	743.0	741.0	743.0	(2.0)	(5,68)	
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INTERNAL USE O	NI V				21			J.P.	Morgan

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DRAFT (5/22/12)

### Daily price testing - Tranche

PV Exceedi	MarkT PV	Index Spread	Independent	Adj Tranche Priced	CIO Quote		Credit Spread	USD Factored	
Cap (\$ m	Change (\$ mm)	Change	Quote	(based on Ref Index)	(LON Close)	Price Type	BP Value (\$ mm)		Poduct
0,7	· · · · (1.33)								Series 09 Tranche
4.3		(2.3)		(3.5)	(3.5)	upfront+100	(2.79)	16,565	CDX IG S09 10Y 30-100
	1.31	(2.6)		(2,2)	(2.2)	upfrom+100	(0.50)	11,121	CIDX KG S09 07Y 30-100
7.7	9.73	(2.3)		73.5	73.4	UO6+trontqu	(4.31)	2,018	CDX KG S09 10Y 00-03
2.1	4.10	(2.3)		8.9	8.7	upfront+500	(1.82)	775	CDX IG S09 10Y 07-10
	0.40	(2.3)		30.7	30,5	upfront+500	(0.18)	60	CDX KG S09 10Y 03-07
	(0.99)	(2.6)		6.9	7.1	upfront+500	0.38	(215)	CDX (G S09 07Y 03-07
-	(0.00)	(1.5)		(0.6)	(0.6)	upfront+100	0.00	(260)	CDX KS S09 D5Y 30-100
(0,8	(2.68)	(2.6)		55.9	56.3	upfront+500	1.03	(331)	CDX KG S09 07Y 00-03
	(0.69)	(2.6)		(5.7)	(5.7)	unfront+500	0.26	(365)	CDX KG S09 D7Y D7-10
	(0.23)	(1.5)		(2.5)	(2.5)	upfront-(500	0,15	(1,395)	CDX IG S09 05Y 03-07
(0.1	(2.11)	(2.5)		0.2	0.3	upfront+100	0.81	(1,970)	CDX IG S09 07Y 10-15
(4.2	(6.20)	(2.3)		11.2	11.1	upfront+100	2.74	(1,980)	CCX IG S09 10Y 10-15
-	(0.04)	(1.5)		(2.9)	(2.9)	upfront+500	0.02	(2,045)	CDX IG S09 05Y 07-10
(7.7	(9.79)	(1,5)		18.7	18.7	upfront+500	6.36	(2,719)	CDX IG S09 05Y 00-03
	(D.03)	(1.5)		(0.6)	(0.6)	upfront+100	0.02	(2,905)	CDX IG S09 05Y 10-15
(3.3	(5.33)	(2.3)		1.4	1.4	upfront+100	2.35	(3.800)	CDX IG S09 10Y 15:30
(D.E	(2.63)	(2.6)		(1.6)	(1.6)	upfront+100	1.01	(6,965)	CDX NG 509 07Y 15-30
٠,	(0.05)	(1.5)		(0.6)	(0.6)	upfront+100	0.03	(12,215)	COX NG 909 05Y 15-30
3.2	5.33	(0.8)		73.4	74.9	spread	(7.10)	21,082	FIRAXX MN S09 10Y 22-100
	0.78	(0.4)		34.5	35.7	spread	(1.89)	14,451	TRAXX MN S09 07Y 22-100
	(0.01)	0.0		9.0	10,0	spread	(0.21)	9,066	TIRAXX MIN 509 05Y 22-100
	0.90	(0.8)		74.2	74.3	upfront+500	(1.20)	1,443	TRAXX MN S09 10Y 60-03
-	0.56	(0.8)		31.9	32,1	upfront+300	(0.75)	485	TRAXX MN S09 10Y 06-09
	(0,00)	0.0		(2.1)	(2.0)	upfront+300	(0.09)	434	TRAXX MN 509 05Y 05-09
	(0.00)	0.0		67.9	73.0	spread	(0.04)	358	ITRAXX MN S09 05Y 09-12
	0,28	(0.8)		629.1	643.0	spread	(0.38)	300	TRAXX MN S09 10Y 09-12
	0.08	(0.4)		429.4	441.0	spread	(0.19)	230	TTRAXX MN S09 07Y 09-12
	0.12	(8.0)		316.6	. 322,5	spread	(0.15)	, 198	TRAXX MN S09 10Y 12-22
	0.01	(D.B)		42.9	43.1	upfront+500	(0.02)	8	TRAXX MN S09 10Y 03-06

BANK PROPRIETARY AND/OR TRADE INFORMATION

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### Daily price testing (cont'd) - Tranche

DRAFT (5/22/12)

COB; 2012-05-21						Total Tranch	18.95	16,63
	USD Factored	Credit Spread		CIO Quote	Adj Tranche Priced	independent, Index Sprea		PV Exceeding
Product	Notionai (\$ mm)	8P Value (\$ mm)	Price Type	(LON Close)	(based on Ref Index)	Quote Chang	e Change (\$ mm)	Cap (\$ mm)
Series 09 Tranche							(1.33)	0.73
TRAXX MN S03 07Y 06-09	(32)	0.00	upfront+300	13.8	13.4	(0.4	(0.00)	-
TRAXX MN 509 05Y 12-22	(160)	0.01	spread	41.D	38.2	0.0	0.00	-
TRAXX MN S09 07Y 03-06	(204)	0.30	upfront+500	23.9	23.5	(0.4	(0.12)	
TRAXX MN 509 05Y 03-06	(460)	0,38	upfront+600	2.3	1.9	0.0	10.01	-
TRAXX MN S09 07Y 12-22	(575)	0.27	spread	200.5	195.4	(0.4	(0.11)	-
TRAXX MN 509 07Y 00-03	(856)	0.94	upfront+500	65.4	65.2	(0.4	(0.39)	
TRAXX MN 509 05Y 00-03	(3,767)	5.98	upfront+600	42.4	41.7	0,0	0.15	-
Other Tranche							20.28	15.90
CDX HY S10 05Y 35-100	3,744	(0.05)	price	105.2	105.2	(3.8		
CEX HY S09 05Y 35-100	3.051	(0.01)	price	102.9	102.9	20.0		
CEX I CDX S10.05Y 15-100	2 852	(0.12)	price	104.9	104.9	11.6		
CDX HY S10 05Y 15-25	2.063	(1.28)	price	89.9	90.6	(3.8		2.81
CEX HY 910 07Y 35-100	1,452	(0.19)	price	110.6	110.7	(16)	3.22	1.22
CDX HY S10 07Y 10-15	1.360	(0.38)	price	5.4	6.6	(16.8		4,32
CDX HY 811 05Y 15-25	1.015	(O.B2)	price	75.1	75.1	4.4	(3.64)	(1.64)
CDX HY 509 05Y 25-35	875	(0.01)	price	102.9	102.9	20.0	(0.25)	
CDX MY S08 05Y 25-35	663	(0.00)	price	100.5	100.5	(13.3	0.01	
CEX HY \$10 05Y 25-35	855	(0.07)	price	103.6	103,7	(3.8	0.27	_
CDX HY S11 05Y 35-100	508	(0.02)	price	107.0	107.0	4.	(0.08)	-
CDX HY S11 05Y 10-15	405	(0.17)	price	12.3	12.3	4.	(0.76)	
CDX HY S10 07Y 15-25	385	(0.38)	price	54.4	55.2	(16.	6.43	4.43
COX HY 508 07Y 25-35	282	(0.08)	price	103.1	103,8	- (10.	r) 0.87	-
CDX HY S10 07Y 25-35	265	(0.16)	price	94.4	94.9	(163	3) 2.75	0.75
CCX HY S11 05Y 25-35	250	(0.05)	price	103.7	103,7	4.	(0.23)	-
CEX HY \$10 05Y 10-15	232	(0.14)	price	18.9	19.7	(3:	3) 0.54	
COX HY S08 07Y 15-25	225	(0.19)	price	81.6	83.5	(10.	3) 2.03	0.03
INTERNAL USE ONL	V			2:	ı			J.P.Mor

BANK PROPRIETARY AND/OR TRADE INFORMATION

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DRAFT (5/22/12)

Daily price testing (cont'd) - Tranche

	USD Factored	Credit Spread		CIO Guote	Adi Tranche Priced	independent Index Spread	Markti PV	PV Exceeding
roduct		BP Value (\$ ram)	Price Type		(based on Ref Index)		Change (\$ mm)	Cap (\$ mm)
Other Tranche							20.28	15.90
CDX KG 507 07Y 07-10	110	(0.04)	uptront+500	(3.9)	(4,6)	16.2	(0.65)	
CEX LCDX \$10 05Y 12-15	110	(0.03)	price	102.3	102.5	11.6	(0.33)	
CDX HY S08 07Y 35-100	109	(0.01)	price	108.7	108,9	(10.9)	0.08	-
CDX IG S15 05Y 15-100	100	(0.01)	upfront+25	0.3	0.3	(3.0)	0.04	-
CDX HY S11 (77Y 35-100	96	(0.02)	price	109,9	110.2	(6.4)	0.11	-
CDX HY S08 07Y 10-15	47	(0.04)	price	26.8	31.0	(10.9)	0.45	-
CEX HY S11 97Y 10-15	17	(0.00)	price	5.8	6.1	(6.4)	0.02	-
CDX HY S07 07Y 15-25		(0.01)	price	89.6	95.8	35.6	(0.23)	-
CDX HY 907 07Y 35-100		(0.00)	price	106.3	106.8	35.6	(0.01)	-
CDX IG S07 07Y 15-30	-	0.00	upfront+100	(1.2)	(1.3)	16.2	0.00	-
GDX IG 507 97Y 30-100	~	(0,00)	upfront+100	(1.3)	(1.3)	16,2	(0.01)	
CDX IG S08 07Y 03-07	-	0.00	upfront+500	6.9	12.4	(29.3)	(0.01)	
CDX IG S08 07Y 07-10		0.00	upfront+500	(5.2)	(3.2)	(29.3)	(0.07)	-
CDX IG S08 D7Y 10-15		(0.00)	upfront+100	(0.5)	0.3	(29.3)	0.01	
CDX KS S08 07Y 3G-100	-	(0.00)	upfront+100	(1.7)	(1.5)	(29.3)	0.01	-
CDX IG \$19.05Y 03-07	-	0.00	upfront+500	(2.5)	(2.5)	(0.8)	(0.00)	-
CDX KG S10 05Y 07-10	_	(0,00)	upfront+500	(5.0)	(5.0)	(8.0)	0.00	-
CDX HY S11 07Y 15-25	(30)	0.02	price	47.9	49.1	(6.4)	(0.15)	-
CDX HY S09 05Y 10-15	(71)	0.06	price	30.9	32.6	20.2	1,14	
CDX HY S08 05Y 35-100	(94)	0.00	price	100.5	100.5	(13.3)	(0.00)	-
CEX IG 815 05Y 00-03	(196)	0,63	upfront+500	37.3	36.9	(3.0)	(1.90)	
CDX IG S08 07Y 15-30	(375)	0.04	upfront+100	(1.9)	(1.6)	(29.3)	(1.06)	
CDX HV S08 05Y 10-15	(812)	0.20	price	96.1	93.2	(13.3)	(2.70)	(0.70)
CDX HY S09 05Y 15-25	(1,055)	D.33	price	98.5	99.2	20.2	6,59	4.53
CDX HY S08 05Y 15-25	(1,410)	G.D1	price	100.4	100.2	(13.3)	(0.12)	-
ITRAXX MN 515 07Y 22-100	2,584	(0.85)	spread	68.8	65.6	(1.4)	1.17	-
ITRAXX MIN S15 05Y 22-100	2,490	(0.50)	spread	48,5	47.3	(1.2)	0.57	
FTRAXX MIN S15 03Y 22-100	383	(0.02)	spread	17.0	16.5	(2.0)		
TIRAXX MIN SOS 10Y 03-06	192	(0.23)	upfront+500	42.9	41.5	7.8	(1.76)	
FTRAXX MIN SOS 10Y 06-09	26	(0.11)	upfront+300	30.2	28.7	7.8	(0.86)	J.P.Morg

BANK PROPRIETARY AND/OR TRADE INFORMATION

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# Daily price testing (cont'd) - Tranche

208: 2012-05-21	LINE C. L.			000			olal Tranche	18.95	16.63
	USD Factored	Credit Spread		CIO Quote	Adj Tranche Priced				PV Exceeding
roduct	Notional (\$ mm)	BP Value (\$ mm)	Price Type	(LON Close)	(based on Ref Index)	Quote	Change	Change (\$ mm)	Cap (\$ mm)
Other Tranche								20.28	15.90
TTRAXX NN S15 03Y 03-06	13	(0.02)	upfront+500	10.8	18.4		(2.0)	0.04	-
ITRAXX NN 506 10Y 09-12		(0.00)	spread	656.0	814.1		7.8	(0.02)	-
TRAXX MN S06 10Y 12-22		(0.01)	spread	313.5	292.6		7.8	(0.12)	
TITRAXX NN S06 10Y 22-100	-	(0.00)	spread	69.7	62.8		7,8	(0.04)	-
TRAXX MN S07 10Y 06-09	-	(D.D0)	upfront+300	29.8	30.1		2.6	(0.01)	-
TRAXX NN S07 10Y 09-12	-	(0.00)	.spread	638.5	637.1		2.6	(0.01)	-
TRAXX MN S07 10Y 12-22		(D.D0)	spread	299.0	300.2		2.6	(0.00)	~
FRAXX MN S07 10Y 22-100		0.00	spread	69.3	69.9		2.6	0.00	-
TRAXX MN \$15 03Y 00-03	(89)	0.15	upfront+500	49.3	48.9		(2.0)	(0.31)	-
TRAXX NN SOS 10Y 00-03	(132)	0.13	upfrort+500	75.4	74.3		7.8	0.98	
TTRAXX MN S15 07Y 03-06	(249)	0.42	upfront+500	36.1	35.7		(1.4)	(0.58)	-
TTRAXX MIN \$15,05Y 00-03	(332)	0.43	upfront+500	62.6	62.4		(1.2)	(0.49)	-
STRAXX MN \$15 07Y 00-03	(377)	0.40	upfront+600	69.6	69,3		(1.4)	(0.56)	
By Family				Change di	ue to the OnTR 5)	Index		41,47	
CDXHY	14,226	(3,46)	price	92.5	93.2	93.2	(16.4)	56.68	
CDX IG	(6,987)	6.21	spread	120.8	118.1	118.1	(2.7)	(15,51)	
TRAXX MN	45,489	(4.37)	spread	179.6	179.3	179.6	(0.3)	1.30	
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BANK PROPRIETARY AND/OR TRADE INFORMATION

OCC-SPI-00089239

### Volume and activity update

	Gross notion	ual (\$mm)	Weekly activ	ity (\$mm)	% of notion	al traded
Series	Untranched	Tranched	Untranched	Tranched	Untranched	Tranched
CDX IG S09	794,674	609,535	15,309	1,754	1.93%	0.29%
Traxx MN S09	516,379	517,046	13,460	N/A	2.18%	N/A
CDXIG 518	333,402	N/A	141,462	N/A	42.43%	N/A
Traxx MN S16	296,060	N/A	4,908	N/A	1.66%	N/A
iTraxx MN 517	307,024	N/A	122,968	N/A	40,05%	N/A
CDXIG S17	240,714	1,995	10,196	20	4.24%	1.00%
CDX IG S16	179,638	N/A	563	N/A	0.31%	N/A
CDX IG \$15	175,372	8,303	658	N/A	0.38%	N/A
CDX HY S17	72,924	650	2,723	209	3,73%	32.18%
CDXHYS10	70,470	47,280	503	245	0.85%	0.52%
iTraxx XO 516	64,662	N/A	309	N/A	0.48%	N/A
iTraxx XO S17	69,580	N/A	32,567	N/A	47.49%	N/A
CDX HY S09	53,980	35,413	232	80	0.43%	0.23%
Traxx FinSub S17	24,375	N/A	2,767	N/A	11,35%	N/A

Source; DTCC (week ending \$/11/12)
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# SYNTHETIC CREDIT DAILY RISK REPORT

May 23, 2012

J.P.Morgan

BANK PROPRIETARY AND/OR TRADE INFORMATION

5/23/2012 (\$119,427)

5/22/2012 (\$21,815) (\$26,301) (\$4,486)

			Portfolio	Net	Since	% Chg.
	CSW10%	Trading	lengthening	change	30-Apr	30-Apr
Current ¹	(159.5)	(2.5)	N/A	(2.5)	133.1	(45.5%)
22May	(157.1)	(18.0)	(0.7)	(18.7)	135,6	(46.3%)
30-Apr	(292.6)	258.2	(125.1)	133.1	0.0	**

Collateral (\$mm)			
	Description	Current	Prior day
Total (CIO - counterpart)	)	\$25	-\$48
Largest counterparty	MS	32	13
Largest instrument	Other	28	-64

Note: negative/positive collateral position denotes lower/higher valuation relative to counterparty

Trades

- Bought protection €250mm iTraxx Main S17 5y m Bought protection \$2,100mm CDX IG S18 5y
- s Sold protection \$510mm CDX HY S18 5y

# Summary commentary

- New trades increased risk in 10%CSW terms by \$2.5mm (new trade activity only, does not include changes due to market moves)
- P&L \$(119.5)mm driven by:
- Compression \$(42)mm globally
- m Widening of IG 9 12/17 vs. OTR IG S18 5y \$(49)mm
- m Equity tranche steepening, super senior widening \$(25)mm

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SYNTHETIC CREDIT DAILY RISK REPORT

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		5Y.eqv.		Beta Adj.		t	oD Change	9	Ch	ange since 4/30/1	2
\$mm)	Notional	OTR Eqv	CS01	CS01	10% CSW	5yr.eqv.	C501	CSW10%	CS01	CSW1D%	Beta
DXIG	47,065	59,631	(28.9)	(33.0)	(474)	(3,814)	3.3	74.2	9.7	32,9	1.00
DXHY	(810)	(20,858)	7.2	39.6	435	2,386	(0.6)	(49.7)	(1.2)	(26.1)	5.50
TRAXXMN	88,631	25,850	(11.3)	(16.9)	(280)	(8,857)	4.8	85.7	12.3	127.0	1.50
TRAXX XO	(8,555)	(8,140)	2.8	15.5	183	178	0.0	(7.7)	(0.3)	(3.2)	5.50
TRAXXFINSUB	(2,856)	373	(0.2)	(0.7)	(11)	(315)	0.1	5.3	0.4	13.3	4.50
Direct Single Name	800	511	(0.2)	(1.7)	(20)	511	(0.2)	(20.1)	(0.2)	(20.1)	5.90
Total	125,962	57,865	(30.3)	3,6	(160)	(9,821)	7.3	87.4	21.0	133.0	

1-TBU – table shown includes notional and risk factors for both indices and tranches combined Note: Positive/Negative notional data denotes long/short risk; Positive/Negative CS01 denotes short/long risk Betas are computed off on the run IG (318)

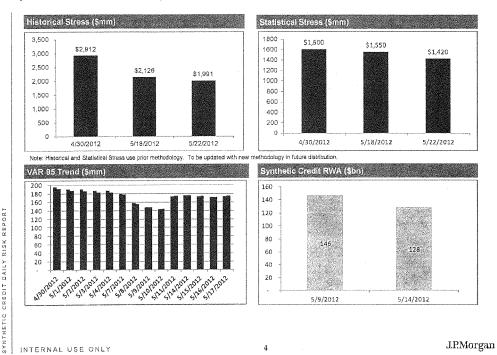
				Spre	ead		Basis to 7	Theoretical (b	ps spd)
	-	5/22/12	5/21/12	5/18/12	4/30/12	3/30/12	5/21/12	1 week	1 month
CDXIG	S18 5 yr	118.5	118.0	123.2	94.7	91.5	(5.3)	(6.6)	(0.5)
	S9 5yr	86.0	87.4	92.2	68.1	70.8	(8.9)	(0.1)	4.5
	59 10yr	168.0	157.7	160.4	119.4	113.1	(4.3)	(1.7)	12.5
CDXHY	S185 yr	671.0	678.2	720.7	579.7	578.9	64.0	33.1	43.5
iTraxx Main	S17.5vr	171.5	180.5	182.3	140.5	125.0	3.8	(0.7)	5.8
	S9 10yr	209,0	218.5	219.8	170.5	151.0	(5,3)	(2.7)	8.6
iTraxx Xover	617 5yr	710.0	744.0	756.5	650.0	613.0	16.9	(10.6)	(2.8)

Source: Market data - J.P. Morgan Investment Bank (as of New York close)

² Estimated based on end of day levels, may fluctuate based on end-of-day trading and volatility

#### Notional overview

		Notional (S	imm) (co	b 5/23/12	·)	1. 1.	Notional (	Smm) (co	15 4/30/1	2)		Change		
	CDX IG vs. HY	IG 9 Other IG High Yield	Notional 48,460 4,905 (18,579)				IG 9 Other IG High Yield	Notional 82,460 (14,500) (20,609)	-			IG 9 Other IG High Yield	Notional (34,000) 19,405 2,030	
	Traxx Main vs. Crossover	iTraxx Main iTraxx XO	Notional 33,063 (6,704)				iTraxx Main iTraxx Cross	54	tional (,948 (,864)			iTraxx Main iTraxx XO	Notional (21,886) 160	
	Tranche positions	IG 9 IG 9 5 yr IG HY ITraxx	Total (5,940) (22,400) (360) 17,769 36,395	Equity (1,355) (3,570) (195) 4,291 (3,230)	Mezz (33,020) (18,560) (265) 4,183 440	Senior 28,435 (270) 100 9,295 39,185	IG9 IG95yr IG HY ITraxx	Total (5,940) (22,400) (340) 17,789 36,395		(33,020) (18,560)	Senior 28,435 (270) 100 9,295 39,185	IG9 IG95yr IG HY iTraxx	Total 0 0 (20) (20) 0	
RISK REPORT	Other positions	FinSub LCDX	Long 2,411 4,075	Short (4,649) (1,688)			FinSub LCDX	3		Short 4,649) 1,688)		FinSub LCDX	Long (650) 0	Short 0 0
TIC CREDIT DAILY	Memo: IG 9 exposure (by maturity)	IG S09 05Y IG S09 07Y IG S09 10Y IG9	Notional (32,723) 34,193 46,989 48,460				CDX IG S09 CDX IG S09 CDX IG S09 IG9	05Y (32 07Y 34 10Y 80	tional 2,723) 1,193 0,989 2,460			IG S09 05Y IG S09 07Y IG S09 10Y IG9	Notional 0 0 (34,000) (34,000)	
NTHETIC	Note: Positive/Negat	ive notional dat	a denotes io	ng/short ri	sk								IDMono	1030
>- (0)	INTERNAL U	SE ONLY					3						J.P.Morg	an



- m Pricing to equilibrium: In addition to below risk factors, some indices will lose value as they move from richness to fairness
- Synthetic credit book exposed to six risk factors Each factor represents a directional exposure
- In the short-to-medium term, these exposures can be partially mitigated But not eliminated

		5/22/12	4/30/12
Risk Factor	Description of when position loses money	Historical worst single day	Historical worst single day
<ol> <li>Credit spread widening (Directionality)</li> </ol>	# If credit spreads widen across markets	\$347mm	\$162mm
2. Maturity mismatch (Curve)	If credit spreads of long-πaturity positions get wider relative to short-maturity positions	0mm	89mm
3. High Yield vs. Investment Grade	If high yield positions outperform investment grade positions relative to their portfolio weighting	2,254mm	3,921mm
4. Illiquidity of older Indices / Tranches (On-the-Run vs. Off-the-Run)	If credit spreads of the older index (the "off-the-run" index) widen relative to more-recently issued indices (the more "on the run" indices)	70mm	1,252mm
5. "Super senior" debt vs. "equity" positions (Tranches)	If there is an increase in the correlation implied between defaults among names within the tranches	505mm	502mm
5. Default risk Risk on individual names)	■ If credit events happen to companies for which we have "sold protection"	NA	NA
	Portfolio worst day	\$2,196mm	\$2,912mm
	Sum of worst case	\$3,176mm	\$5,927mm

Note: 5/22 values under new methodology, 4/30 values under prior methodology. To be updated.

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- Pricing to equilibrium: In addition to below risk factors, some indices will lose value as they move from richness to fairness
- Synthetic credit book exposed to six risk factors Each factor represents a directional exposure
- n the short-to-medium term, these exposures can be partially mitigated But not eliminated

			5/22/12	4/30/12
	Risk Factor	Description of when position loses money	95% ile loss potential¹	95%ile loss potential ¹
	Credit spread widening (Directionality)	■ If credit spreads widen across markets	\$200mm	\$430mm
	2. Maturity mismatch (Curve)	If credit spreads of long-maturity positions get wider relative to short-maturity positions	150mm	160mm
	3. High Yield vs. Investment Grade	If high yield positions outperform investment grade positions relative to their portfolio weighting	1,170mm	1,130mm
	4. Illiquidity of older Indices / Tranches (On-the-Run vs. Off-the-Run)	If credit spreads of the older index (the "off-the-run" index) widen relative to more-recently issued indices (the more "on the run" indices)	500mm	850mm
REPORT	5. "Super senior" debt vs. "equity" positions (Tranches)	If there is an increase in the correlation implied between defaults among names within the tranches	490mm	500mm
DAILY RISK	6. Default risk (Risk on individual names)	If credit events happen to companies for which we have "sold protection"	291mm	291mm
A TIC		Est. total diversified 95% loss potential	\$1,420mm	\$1,600mm

Note: 5/22 values under new methodology, 4/30 values under prior methodology. To be updated.

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# Synthetic Credit risk factors details

Sensitivity analysis		
Scenario	Sigma Li	oss (\$mm)
90.0% percentile	1.28	1,150
95.0% percentile	1.64	1,420
97.5% percentile	1.96	1,660
99.9% percentile	3.09	2,510
Downside Case A ¹	N/A	2,801
Downside Case B ²	N/A	4,635

#### Assumptions behind analysis

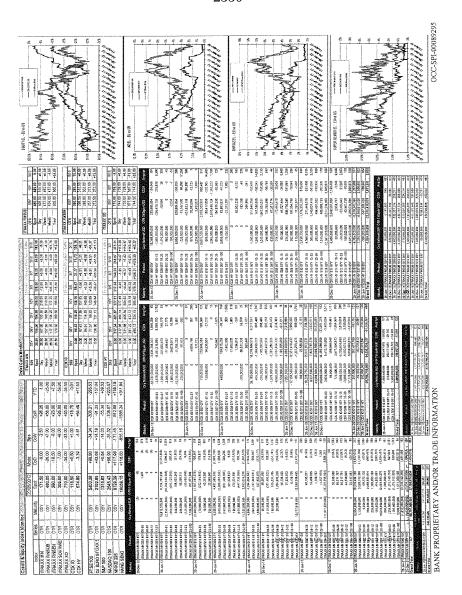
- Credit spread widening (Directionality) Net directional loss estimate assumes correlation based on 1yr data
- m Maturity mismatch (Curve)
- M Volatility measured as relative movement of longer maturity spread vs. shorter maturity spread adjusted for overall drift
- M Combined across asset classes assuming zero correlation
- M High Yield vs. Investment Grade
- a Volatility based on relative spread movement netted for overall directionality
- Assumes zero correlation between these differences for US and Europe
- M Illiquidity of older Indices/Tranches (On-the-run/Off-the run risk)
- Series 9 is assumed as the off-the-run position
- Risks are combined assuming zero correlation
- a "Super senior" debt vs. "equity" positions (Tranches) Risk factor based on extreme movements of correlation as seen during the credit crisis
- B Default risk (Risk on individual names) Exposure based on comprehensive simulation of default risk using capital model
- Diversified sum All above risk measures combined assuming zero correlation
- ¹ Diversified sum of 95.0% percentile; ² Diversified sum of 99.9% percentile

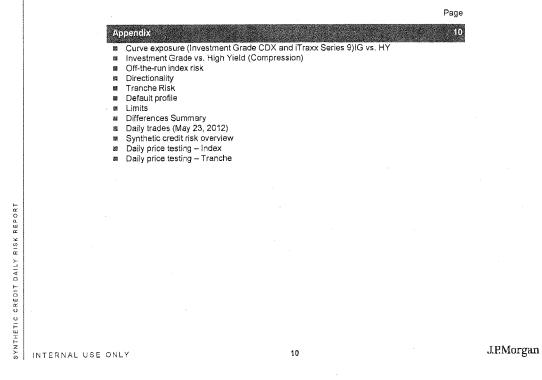
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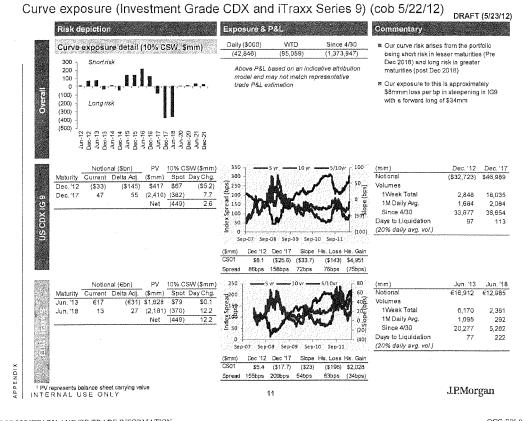
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	elo Ciedol risk 32.2mm GSOI (+0.4mm) / -16T/mm 10%GSW (+4mm)) Coed Criste (-tage) Filmanen Sello-di 3-165in (+dshrim) Gross Criste (-tage) Filmanen Sello-di 3-165in (+dshrim) Gross - 25% (фте across regions: HY compressing / XO decompressing , vidit off-the-tm 39 curves (falser in U.S., skepper in Eucope	ed Credit (MTM & AFS): Long credit fisik -520mm 10%CSW; -31,4mm CS01 Large Flattener self-off stress scenario loss -2,43bn	o not include sir				330,454,000	129,77666	24,245,110	15,394,823	- 79,508,140	534,387,423	23,225,223	23,000,000	61,514,919	617, RCB-96.	477,638,030	6	95,973,500	10,142,000	-56.432	(31,940)	396013	735,980	100,000,000	8.484,628 0	16875Z3C1-		
	Synthetic Credit: Long credit ist -32.2mm GSO1 ( Codit Criest Large Flattener Se Indices 2-5% lighter across regic with of-the-run S9 ouves flatte	Secured Credit (MTM & AFS) : Long credit fisk -520mm • Large Flattener self-off sl	NB. Tables below do not include single name positions				ES 1998 (02.50)	1000000	00	0 0	275,500,000	10.259.602.00	4 304,800,000	-20,000,030	-	0	514 192 008	0 0	120,600,006		200 200 000	200,550,000	000	0 4	185,000,000	900,000,000			PAC CO. THE STATE OF THE STATE
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	7,214,281,639 -1,786,373 -2,375,47,647 -1,484,67,6,385 -1,484,67,6,385 -1,484,67,63	20,606.117	0	277,180,338	3528111431		WECONTE	3				0	3,346,646		3,480 902	1		-	3,620,290		ľ		9 9 9	1	0.0		10,054,222	in (in the state of the state	
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Minis		0.025,675,699-0.000,000	0			-	472, 191, 182, 233	19,077,314,638		1,816,249,209	- 1	5,964, (30,304,16)	6,604,342,46	3,374,050,04	42,468,000,954,5-	- 1	11,772,630,535,477	7	8,079,250,678		32.235.474.659	3		-	-3,140,498,016		81,017,702,30	MINISTER STATE	
Control	7,971,561 -22 -12,084 -31,196,707 64, -11,404,019 27, 2,870,404 -8,		0	1759,380	53.610.941		18,12,18,1	323600,000	715 300 100	500,000,000	39 185,000,000	61,301,699,965	1 526 010 100	1535 500 600	-8.955,300,200	28,435,050,300	38,709,800,000	7,121,162,600	4,270,500,000	2,980,000,000	48.20.200,000	1739,750,100	150,000,000	3955,000,000	670,293,000	948,53,900	VIII SCHOOL	MV(Inm)	
Index	CDK-HT CDK LCDK CDK IS ITRACK MN ITRACK MN	MAXX FNISD: SDVX WE Shigh harms		Synthetic Total Investments ASM	1	3	Gire Stratente TRACK AN OANGE	FRAXX MATEGOS	STRACK MARGAGE	FRANK ANDS-12	FRANK AN 22-100	CDX 65 Outlight	CON ICEGOS	CDK ID 00-07	COX 10 15	CDX C3 30-100	COX HY ORIGIN	COX H 1850s	COX HT 10-15 COX HT 15-25	CDK HT 25-35 CDK HT 35-100	CDK RY Total	CDX (CDX )-india	COX LCDX OS-08 COX LCDX OS-12	H 501-51 XXX	HEALTH O	SUPPLY TO SELECTION OF SELECTIO	Grand Tolai		







Exposure & P&L

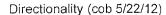
INTERNAL USE ONLY BANK PROPRIETARY AND/OR TRADE INFORMATION

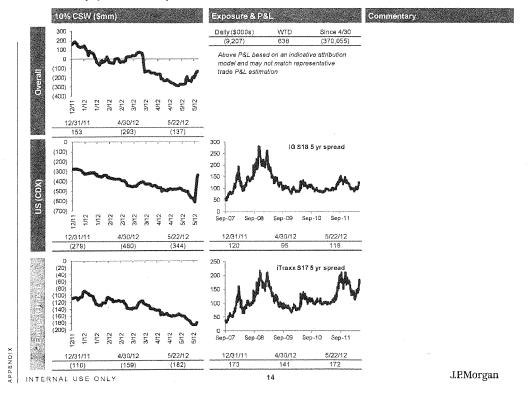
J.P.Morgan

# Off-the-run index risk (cob 5/22/12)

Overall		ional (\$6n) nt Delta Adj. 9 55,398 9 35,056	(\$mm) Sp (2,410) ( (2,181) (	CS01 (\$m m) pot Day Chg. (26) (0.5) (18) (0.1) (43) (0.6)		WTD (52,282) on an indication of the contract		Commentary  ™ This refers to the ris concentrated positing CDX and iTraxx		
US example (CDX)	(\$mm) CS01 Change Close of Day Close of Weel Since April 30	IG 9 10yr (25.6) (0.5) (16.5) 19.5	(2) (1-	0.3 4.9)	300 250 200 150 100 50 0 5ep-07 5ep-08 5		OTR/59 60 40 20 0 (20) (40) (66) (80)	(\$mm) Notional Volumes 1Week Total 1M Daily Avg. Since 4/30 Days to Liquidation (20% daily avg. vol.)	IG 9 10yr \$46,989 18,035 2,084 36,654 113	iG 18 5yr \$43,089 143,561 19,926 366,895 11
12.10.10.10.10.10.10.10.10.10.10.10.10.10.	(\$mm) CS01 <u>Change</u> Close of Day Close of Weel Since April 30	MN S9 10yr (17.7) (0.1) (0.1) 1.5		5 yr 6.9 0.0 3.4 0.8	250 200 150 100 50 50 5ep-07 5ep-08 5	10YS9	OTR/SS 50 40 30 20 10 10 10 (20) (30) (40) (40) (40)	(Emm) Notional Volumes 1Week Total 1M Daily Avg. Since 4/30 Days to Liquidation (20% daily avg. vol.)	MN S9 10yr €16,569 2,381 292 5,262 284	MN S17 5 yr (€15,276) 93,918 13,216 236,648 6
	PV represents balan		ng value		13				J.P.Mo	organ

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# Tranche Risk (cob 5/22/12)

Correlation 10% s	shift ¹		Daily (\$000s)	WTD TBU	Since 4/30 TBU	
index name	Tranches	Total	150	150	100	
CDXIG Junior	0-30%	124	Above P&L ba	sed on an indi	cative attribution	
CDXIG Super Senior	30-100%	(164)	model and ma		oresentative	
CDX IG Total		(41)	trade P&L esti.	malion		
CDX.HY Junior	0-35%	37				
CDX.HY Super Senior	35-100%	8				
CDX.HY Total		45				
Traxx Junior	0-22%	(28)				
Traxx Super Senior	22-100%	(150)				
Traxx Total	*****	(178)				
Grand total		(174)				
Week To Date Since April 30	0.12 -2.92	-0.06 0.32	Graphs of 1	0% correlatio	n shift	CIO Voi traded since Apr 30 th
			Theoretical Corr and Sp		s based on 10%	Implied Daily, weekly P/L
	Long iTraxx 9 Super 10yr	Short 0-22				
10% Corr 01	Super royr -15	11				
Change	-10					
Week To Date	0.30	0.16				<i>'</i>
Since April 30	-0.70	-0.70				
Onioc / pin bo	0.75	371.0				

¹ Correlation data as of COB 4/4 INTERNAL USE ONLY

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# Default profile (cob 5/22/12)

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		# of	# Names		given ault	#Names	P&L g defa					
	Portfolio		w/ default loss risk	Avg.	Max	w/ default	Avg.	Max.				
盂	Portfolio (todav)	names 675	90		(\$253)	gain risk 585	\$156	\$639				
Overall						414	133	639				
6	Portfolio (post Dec. '12)	672 121	258 0	(240) 0	(599)	121	260	553				
	IG9 only (today) IG9 only (post Dec. '12)	121	121	(460)	(599)	0	200					
	iGs only (post Deb. 12)	121	121	(400)	(599)			0				
	Top 5 exposures								TOTAL CONTRACTOR			
	Loss							ncongunconne	Gain ,		7	
	Pre December 2012	WANTED HOLD (CLAY)	(\$mm)	Post Dec	ember	2012	(\$mm)		Pre December 2012	(\$mm)	Post December 2012	(\$mm)
	1. H. J. Heinz Compan	У	(253.0)	1. Capit (Usa)	al One E , Nation		(598.6)		R.R. Donnelley & Sons Company	552.8	Brunswick Corporation	
	Boston Scientific     Corporation		(245.9)	2. Good	rich Cor	poration	(536.4)		2. Liz Claiborne, inc.	532.6	<ol><li>The New York Times Company</li></ol>	251.1
2	Directy Holdings Lld	;	(239.3)			orporation			3. Gannett Co., Inc.	532,3	<ol> <li>The Tjx Companies, Inc.</li> </ol>	235,6
	4. Nabors Industries, I	nc.	(232.6)	4. Baxte	r Interna	itional Inc.	(533.6)		Lennar Corporation	531,5	4. Dean Foods Company	231.6
	5. The Gap, Inc.		(222.1)	5. Bristo Comp	,	Squibb	(532.6)		5. Belo Corp.	530.2	5. Temple-inland inc.	222.7
72	Pre June 2013		(\$mm)	PostJun	e 2013		(\$mm)		Pre June 2013	(Smm)	Post June 2013	(\$mm)
	1. Imperial Chemical		(1.5)	1. Imper	ial Che	mical	(1.5)		1. Gas Natural Sdg, S.A.	638.7	1. Gas Natural Sdg, S.A.	638.7
	<ol><li>Altadis Sa</li></ol>		(1.4)	2. Atadi:	s Sa		(1.4)		<ol><li>Gdf Suez</li></ol>	580.6	<ol><li>Gdf Suez</li></ol>	580.7
	3. Hanson Limited		(0.1)	<ol> <li>Royal insura</li> </ol>	& Sun / ance Plo		(0.5)		<ol> <li>Unicredit, Societa Per Azioni</li> </ol>	507.2	<ol> <li>Banca Monte Dei Paschi Di Siena S.P.A</li> </ol>	465.9
	L'Air Liquide Societe     Anonyme Pour L'Etu L'Exploitation Des P	ıdə Et	(0.0)	4. The R	loyal Ba and N.V.		(0.4)		Banca Monte Dei     Paschi Di Siena S.P.A.	489.9	<ol> <li>Banco Bilbao Vizcaya Argentaria, Sociedad Anonima</li> </ol>	461.0
	<ol> <li>Deutsche Bahn Aktiengesellschaft</li> </ol>		(0.0)	5. Hans	on Limit	ted	(0.1)		<ol> <li>Banco Bilbao Vizcaya Argentaria, Sociedad Anonima</li> </ol>	485.8	<ol> <li>Unicredit, Societa Per Azioni</li> </ol>	458.8

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# Limits (cob 5/22/12)

	Usage	Synthetic		Usage	Syntheti
Limit (\$mm)	5/21/12	Limit	Limit (\$mm)	5/21/12	Lim
CS01 Unadjusted			VaR	158.5	180.0
CDXHY	7.6	8.6			
CDXLCDX	(0.0)	1.8	Compression		
CDXIG	(30.9)	39.4	US Compression Limit	484.5	496.0
iTraxx MN	(11.9)	23.7	EUR Compression Limit	176,9	174.0
iTraxx XO	2.8	3.3			
iTraxx Finsub	(0.2)	0.6	Tranche Limits		
iTraxx Finsen	0.3	0.5	10% Corr Shift	(188.2)	175.0
CSW10%			Steepen10%		
CDXHY	484.8	495.0	CDXHY	(69.4)	64.0
CDXLCDX	(0.3)	0.1	CDXLCDX	0.1	0.5
CDXIG	(510.7)	549.0	CDXIG	(430.1)	436.0
Traxx MN	(300.1)	434.0	iTraxx MN	(175.2)	265.0
iTraxx XO	191.3	201.0	iTraxx XO	61.2	65.0
iTraxx Finsub	(14.3)	27.0	iTraxx Finsub	(25.3)	30.0
iTraxx Finsen	8.5	12.0	iTraxx Finsen	4.3	6.0
Large Index Notionals					
CDXIG.9.7Y	34.2	34.2			
CDXIG.9.10Y	47.0	81.0			
iTraxx S9 7Y	5.4	5.4			
iTraxx S9 10Y	13.0	13.0			

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CIO Credit Collateral differences

By counter	oarty (\$mr	n)		By instrument (\$mn	1)		
	Sum of	Sum of CP	Sum of MTM			Sum of CP	
Counterparty	MTM	MTM	Diff	Instrument	Sum of MTM	MTM Sum	of MTM Diff
CA	(29)	(29)	0	CDX K3 S09 10Y 00-03	(1,376)	(1,388)	12
BBVASA	Đ	0	(0)	TRAXX MN \$06 10Y 06-09	60	70	(10)
BNPP	355	372	(16)	CDX HY \$09 05Y 15-25	(21)	0	(22)
BOA	55	65	(11)	CDX HY S08 05Y 10-15	26	. 15	13
BPLC	(105)	(97)	(7)	TRAXX MN S09 10Y 22-100	(549)	(558)	. 9
CBKAG	(2)	(1)	(0)	CDX IG S09 05Y 00-03	412	416	(5)
CGML.	(6)	(6)	0	CDX KG \$18 05Y	5	9	(4)
CITI	(130)	(141)	12	CDX IG S09 10Y 10-15	208	216	(8)
CSI	(200)	(209)	9	CDX HY \$11 07Y	0	(14)	15
CSX	(48)	(54)	6	CDX IG S09 10Y 15-30	34	37	(3)
DBKAG :	399	388	11	Other	1,601	1,574	28
GSI	(13)	(29)	17	Total	402	377	25
HŞBCEU	12	8	4				
HSBCUS.	(7)	(10)	3	No.			
MLI	5	5	(0)				
MSCS	177	145	32				
MSIL	(93)	(91)	(2)				
NOMURAIP	126	127	(1)				
RBSALC	73	74	(1)				
SGCIB	(48)	(29)	(19)				
UBSAG	(122)	(110)	(12)				
Total	402	377	25				

Index (\$mm) ¹		*	Tranche (\$mm)1			Pricing to	lerance ¹		ris Marin I and Company
	MarkIT PV Change	PV Exceeding Cap ¹			PV Exceeding	Position Type	Position Type	Independent Source	Notes
Series 09 Index Other Index	(78.6) 70.0 (8.6)	(69.2) 63.0 (6.2)	Series 09 Index Other Index Subtotal	45.9 (54.3) (8.4)		index IG Index HY	½ bps 1 bps	Markit Markit	Aggregate max: \$50mm Aggregate max: \$50mm
Subtotal By Family	(8.0)	(0.2)	By Family	(0.4)	2.0	Tranche	\$2mm	Dealer quotes	Per position
CDX IG	(129.1)		CDX IG	(37.5)					
CDX HY	120.7		CDX HY	20.3					
ITRAXX MN	(0.2)		ITRAXX MN	(0.1)					
ITRAXX XO Chg. in OnTR 5Y	1.5 (7.1)		Chg. due to OnTR 5Y	(17.2)	-				

INTERNAL USE ONLY Note: as of 5/21/12

Negative number implies marks are too low – P&L adjusted upward to cap; Positive number implies marks are too high – P&L reduced to cap.

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### New trades

May 23, 201	2											
SHESHIPMAN BURNEST WARR	STEEDINGS.	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							Traded	Traded	Previous	Day	Closing	Spread
Date	Ħ	Risk	Notional	Product	Maturity	Counterparty	Price	Spread	Day Price	Spread	Price	(bps)
23-May-12	2	LONG	200,000,000	CDX HY S18 05Y	20-Jun-17	JPMCB NY CDS (HY in:	92.94		93.75		92.63	
23-May-12	3	LONG	100,000,000	CDX HY S18 05Y	20-Jun-17	JPMCB NY CDS (HY In:	92.75		93.75		92.63	
23-May-12	4	LONG	110,000,000	CDX HY S18 05Y	20-Jun-17	JPMCB NY CDS (HY In:	92.66		93.75		92.63	
23-May-12	5	LONG	100,000,000	CDX HY S18 05Y	2D-Jun-17	JPMCB NY CDS (HY In:	92.81		93.75		92.63	
22-May-12	6	LONG	330,000,000	CDX HY S18 05Y	20-Jun-17	JPMCB NY CDS (HY In-	93.76		93.75		92.63	
23-May-12	7	SHORT	(250,000,000)	CDX IG \$1,8 05Y	20-Jun-17	SOCGEN		120.75		115.00		122.25
23-May-12	В	SHORT	(250,000,000)	CDX IG S18 05Y	20-Jun-17	BOA CHARLOTTE		121.50		115.00		122.25
23-May-12	9	SHORT	(500,000,000)	CDX IG S18 05Y	20-Jun-17	BOA CHARLOTTE		121.50		115,00		122.25
23-May-12	10	SHORT	(350,000,000)	CDX IG S18 05Y	20-Jun-17	NOMURA LDN		122.00		115.00		122.25
23-May-12	11	SHORT	(250,000,000)	CDX IG S18 05Y	20-Jun-17	SOCGEN		120.75		115.00		122.25
23-May-12	12	SHORT	(500,000,000)	CDX IG S18 05Y	20-Jun-17	SOCGEN		120.50		115.00		122.25
22-May-12	13	SHORT	(250,000,000)	CDX KG S18 05Y	20-Jun-17	SOCGEN		115.50		115.00		122.25
22-May-12	14	SHORT	(250,000,000)	CDX IG S18 05Y	20-Jun-17	SOCGEN		116.00		115.00		122.25
22-May-12	15	SHORT	(250,000,000)	CDX IG S18 05Y	20-Jun-17	CITIBANK NY		116.75		115.00		122.25
22-May-12	16	SHORT	(500,000,000)	CDX IG S18 05Y	20-Jun-17	BARCLAYS NY		116.88		115.00		122.25
22-May-12	17	SHORT	(350,000,000)	CDX IG S18 05Y	20-Jun-17	MS CAP SVC NY		117.25		115.00		122.25
23-May-12	18	SHORT	(250,000,000)	ITRAXX MN S17 05Y	20-Jun-17	BNPLDN		177.75		170.75		180.00
23-May-12	19	SHORT	(250,000,000)	ITRAXX MN S17 05Y	20-Jun-17	BNPLDN		177.75		170,75		180.00
23-May-12	20	LONG	250,000,000	ITRAXX MN S17 05Y	20-Jun-17	NOMURA LDN		181.00		170.75		180.00

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# Daily price testing - Index

COB: 2012-05-22							Total Index	(8.61)	(6,22)
	USD Factored	Credit Spread		CIO Quote	Markit Quote	ICE Quote	MarkIT Spread	MarkiT PV	PV Exceeding
Product	Notional (\$ mm)	BPValue (\$ mm)	Price Type	(LON Close)	(NY/LON Close)	(NY/LON Close)	Difference	Change (\$ mm)	Cap (\$ mm)
Serles 09 Index							E	(78.60)	(69.21)
CDX IG 509 10Y	45,485	(22.86)	spread	153.8	157.7	156.5	3.9	(89.92)	(78.49)
CDX IG \$09 07Y	33,099	(8.34)	spread	114.8	117.7	117,0	2.9	(24.50)	(20,33)
CDX IG S09 05Y	(31,675)	1.85	spread	83.5	86.8	86.0	3.3	6.20	5.28
ITRAXX MN S09 05Y	21,581	(2.33)	spread	155.4	155,4	155.4	(0.0)	0.01	-
TTRAXX MN S09 10Y	16,569	(8,85)	spread	212.0	209.8	212.0	(3.3)	28.75	24.33
TRAXX MN S09 07Y	6,827	(2.01)	spread	185.6	185.1		(0.4)	0.86	-
Other index							F	69,99	62,99
CDX IG \$18 05Y	41,489	(20,01)	spread	115.0	118.4	118.3	3.4	(68.38)	(58.37)
CDX HY S08 05Y	15,430	(0.12)	price	100.1	100.1	100.1	(15.9)	1.98	1.85
CDX IG S17 05Y	8,338	(3.67)	spread	108.3	111.5	111,6	3.2	(11.87)	(10,04)
CDX HY S09 05Y	5,686	(0.33)	price	100.5	100.4	100.4	25.2	(8.36)	(8.03)
CDX HY S11 07Y	3,703	(1.16)	price	99.1	98.7		12,3	(14.34)	(13.18)
CDX HY S11 05Y	994	(0.15)	price	. 101.4	101.2	101.2	12,2	(1.87)	(1.72)
CDX IG S08 07Y	434	(0.09)	spread	159.5	135,4	134.5	(24.1)	2.10	2.05
CDX IG S16 10Y	302	(0.23)	spread	136.5	142.7	142.7	6.2	(1.46)	(1.34)
CDX IG \$14 10Y	257	(0,18)	spread	123.8	134.0	134.2	10.2	(1.89)	(1.79)
CDX IG \$15 10Y	(54)	0.04	spread	127,5	137.0	138.5	9.5	0.39	0,37
CDX HY S14 03Y	(73)	0.01	price	101.8	101.4		29.5	0.23	0.22
CDX HY S18 05Y	(170)	0.07	price	93,8	93.3	93.3	11.0	0.72	0.65
CDX HY S08 07Y	(180)	0.04	price	98,9	98.6		11.7	0.42	0,38
CDX IG S07 07Y	(704)	0.11	spread	121.5	143.6		22.1	2.42	2.37
CDX LCDX S10 05Y	(1,165)	0.13	price	101.8	101.5		24.8	3.16	3.09
CDX HY S10 07Y	(2,049)	0,58	price	101.1	101.0		5.5	3.21	2.63
CDX HY S16 05Y	(6,562)	2.24	price	97.3	97.1	97,1	7.5	16.80	14.57
CDX HY S17 05Y	(6,887)	2.49	price	95.0	94.6	94.6	9.4	23.41	20.92
CDX IG S14 05Y	(7,657)	2.34	spread	84.0	86.8	86.6	2.8	6.52	5.35
CDX HY S10 05Y	(9,134)	0.99	price	. 102.0	101.8	101.8	21.7	21.42	20.43
CDX HY S15 05Y	(9,618)	3,00	price	98.8	98.5	98.6	7.2	21.55	18.55
CDX HY S14 05Y	(11,977)	3.34	price	100.0	99,7	99.8	9,3	30.98	27,64
CDX IG S15 05Y	(17,159)		spread	93.5	96.4	97.0	2.9	17.53	14.51
INTERNAL USE OF	au V				20			J.F	Morgan

# Daily price testing (cont'd) - Index

GIO PV Differences w	rith MarkiT p	ricing							
COB: 2012-05-22							Total Index	(8,61)	(6.22)
	USD Factored	Credit Spread		CIO Quote	Markit Quote	ICE Quote	MarkIT Spread	Mark(T PV	PV Exceeding
Product	Notional (\$ mm)	BP Value (\$ mm)	Price Type	(LON Clase)	(NY/LON Close)	(NY/LON Close)	Difference	Change (\$ mm)	Cap (\$ mm)
Other Index		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						69,99	62.99
CDX IG \$15 05Y	(18,229)	7.23	spread	102.5	106.1	106.1	3.6	26.15	22.54
ITRAXX MN S16 05Y	13,753	(5.76)	spread	171.2	171.0	171.2	(0.2)	1.15	-
ITRAXX MN S15 05Y	5,181	(1.95)	spread	174.5	174.0	174,5	(0.4)	0.81	-
ITRAXX FINSUB S14 05Y	1,665	(0.50)	spread	474.0	480.2		6.2	(3.07)	(2.82)
ITRAXX FINSUB \$16 05Y	1,335	(0.53)	spread	.496.0	499.6		3.6	(1.92)	(1.65)
ITRAXX MN S15 07Y	1,129	(0.59)	spread	191.8	190.3		(1.4)	0.84	0.64
ITRAXX MN S06 10Y	102	(0.04)	spread	211.8	218.8		7.0	(0.28)	(0.26)
ITRAXX FINSUB S17 05Y	77	(0.03)	spread	474.0	479.7		5.7	(0.19)	(0.17)
ITRAXX FINSUB S07 05Y	(119)	0.00	spread	559.0	449.5		(109.5)	(0.10)	(0.10)
ITRAXX XO S17 05Y	(555)	0.20	spread	705.5	706,0	705.5	0.5	0,1,0	-
ITRAXX FINSUB \$15 05Y	(581)	0.19	spread	490.0	492.1		2.1	0.41	0.31
ITRAXX FINSUB S08 05Y	(674)	0.04	spread	416.0	409.7		(6.3)	(0.24)	(0.22)
ITRAXX FINSEN \$17 05Y	(699)	0.29	spread	280.0	279.7		(0.3)	(0.10)	
TRAXX FINSUB \$12 05Y	(990)	0.23	spread	452.5	461.3		8.8	2.00	1.89
ITRAXX FINSUB \$10 05Y	(1,410)	0,21	spread	432.0	436.7		4.7	1.00	0.89
ITRAXX MN S16 10Y	(1,691)	1.27	spread	186.4	185.5	186,4	(0.9)	(1.13)	(0.50)
ITRAXX XO S15 05Y	(1,726)	0.55	spread	621.0	620.5	621.0	(0.5)	(0.28)	-
ITRAXX MN \$15 10Y	(2,083)	1.49	spread	192.8	193.9	192.8	1.1	1.62	0.87
ITRAXX FINSUB S09 05Y	(2,159)	0.23	spread	409.0	418.9		9.9	2.26	2.15
ITRAXX MN S15 03Y	(3,584)	0.73	spread	149.8	147.1		(2.7)	(1.96)	(1.60)
ITRAXX XO S16 05Y	(6,274)	2.11	spread	673.8	672.9	673.8	(0.9)	(1.85)	
ITRAXX MN S17 05Y	(15,276)	7.02	spread	170.8	170.8	170.8	0.0	0.11	•
By Family				Change in t	he OnTR 5Y Cor	tract	1	(7.08)	
CDX IG	53,926	(37.79)	spread	115.0	118.4	118.3	3,4	(129.11)	
CDX HY	(20,837)	10.97	price	93.8	93.3	93.3	11.0	120.69	
ITRAXX MIN	42,508	(11,03)	spread	170.8	170.8	170.8	0.0	(0.17)	
TRAXX XO	(8,555)	2.86	spread	705.5	706.0	705.5	0.5	1.52	

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# Daily price testing - Tranche

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500 64.3 500 (6.5 500 (2.6 100 0.5 100 10.6 500 (2.5 500 17.6	2 53.8 (1) (6.2) (5) (2.6) 1 0.0 5 10.2 9) (2.9) 6 17.3	2.9 2.9 3.3 2.9 3.9 3.3	3,25 0,76 0,50 2,24 10,82 0,08 20,46	1.25 - - 0.24 8.82
500 (6.5 500 (2.6 500 0.1 100 0.1 100 10.6 500 (2.6 500 17.0	(6.2) (6.2) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6) (7.6)	2.9 3.3 2.9 3.9 3.3 3.3	0.76 0.50 2.24 10.62 0.08 20.46	0.24 8.82
500 (2.6 100 0.1 100 10.6 500 (2.6 500 17.6	(2.6) (2.6) (3.6) (3.9) (2.9) (2.9) (3.9)	3.3 2.9 3.9 3.3 3.3	0.50 2.24 10.62 0.08 20.46	0.24 8.82
100 0.1 100 10.6 500 (2.9 500 17.0	0.0 5 10.2 9) (2.9) 5 17.3	2.9 3.9 3.3 3.3	2.24 10.82 0.08 20.46	0.24 8.82
100 10.6 500 (2.9 500 17.0	5 10.2 9) (2.9) 5 17.3	3,9 3,3 3,3	10,62 0.08 20.46	8.82
500 (2.9 500 17.0	9) (2.9) 5 17.3	3.3 3.3	0.08 20.46	-
500 17.0	17.3	3.3	20.46	
				18.46
	3) (0.6)			
100 (D.6		3,3	0.05	-
100 1.1	2 1.0	3.9	10,02	8.02
100 (1.3	7) (1.7)	2.9	2.97	0.97
100 (0.6	5) (0.6)	3.3	0.12	-
d 69.1	3 68,3	(3.3)	23.23	21.23
d 32.	4 30.4	(0.4)	0.79	-
d 9.4	4 8.6	(0.0)	0.00	-
500 73.	7 73.6	(3.3)	3.92	1.92
300 30.1	3 30,6	(3.3)	2.55	0.55
300 (2.	1) (2.2)	(0.0)	0.00	-
d 64.5	5 58.7	(0.0)	0.00	
d 621.	5 607.7	(3.3)	1.29	-
d 417 !	5 400.1	(0.4)	0.08	
4 7111	303,0	(3.3)	0.51	
		(3.3)	0.06	-
	id 64.9 id 621.9 id 417.9 id 308.9	ad 64.5 58.7 ad 621.5 607.7 ad 417.5 400.1 ad 308.8 303.0	ud 64.5 58.7 (0.0) ud 621.5 607.7 (3.3) ud 417.5 400.1 (0.4) ud 308.8 303.0 (3.3)	dd 64.5 58.7 (0.0) 0.00 dd 621.5 607.7 (3.3) 1.29 dd 417.5 400.1 (0.4) 0.05 dd 308.8 303.0 (3.3) 0.51

# Daily price testing (cont'd) - Tranche

COB: 2012-05-22						T	otal Tranche	(8.40)	1.98
	USD Factored	Credit Spread		CIÓ Quote	Adj Tranche Priced	Independent	Index Spread	MarkIT PV	PV Exceedin
Product	Notional (\$ mm)	BP Value (\$ mm)	Price Type	(LON Close)	(based on Ref Index)	Quote	Change	Change (\$ mm)	Сар (\$ лут
Series 09 Tranche								45,93	31,46
ITRAXX MN S09 07Y 06-09	(32)	0.00	upfront+300	12,9	12.3		(0.4)	(0.00)	-
TRAXX MN S09 05Y 12-22	(160)	0.01	spread	35.0	31.8		(0.0)	(0.00)	-
TRAXX MN S09 07Y 03-06	(204)	0,31	upfront+500	22.9	22.2		(0.4)	(0.13)	
TRAXX MN S09 05Y 03-06	(459)	0.39	upfront+500	1.8	1.2		(0.0)	(0.00)	-
TRAXX MN S09 07Y 12-22	(574)	0.27	spread	190;0	182.0		(0.4)	(0.11)	
TRAXX MN S09 07Y 00-03	(855)	0.99	upfront+500	64,4	63.9		(0.4)	(0.42)	
TRAXX MN 509 05Y 00-03	(3,764)	6.41	upfront+500	40,8	39.8		(0.0)	(0.03)	-
Other Tranche								(54.33)	(29.47
CDX HY S10 05Y 35-100	3,744	(0.05)	price	105,3	105.3		21.7	(1.15)	-
CDX HY S09 05Y 35-100	3,051	(0.01)	price	102.9	102.9		25.2	(0.20)	-
CDX LCDX S10 05Y 15-100	2,852	(0.11)	price	105.0	105.0		24.8	(2.63)	(0.63
CDX HY S10 05Y 15-25	2,063	(1.22)	price	91.8	93.1		21.7	(26.48)	(24.48
CDX HY S10 07Y 35-100	1,452	(0.20)	price	111.3	111.3		5.5	(1.08)	4
CDX HY \$10 07Y 10-15	1,360	(0.38)	price	7.6	7.5		5,5	(2.11)	(0.11
CDX HY S11 05Y 15-25	1,015	(0.79)	price	78.2	77.6		12.2	(9.59)	(7.59
CDX HY S09 05Y 25-35	875	(0.01)	price	102.9	102.9		25.2	(0.21)	
CDX HY S08 05Y 25-35	663	(0.00)	price	100.5	100.4		(15.9)	0.01	-
CDX HY S10 05Y 25-35	655	(0.07)	price	103.8	104.1		21.7	(1,54)	
CDX HY S11 05Y 35-100	508	(0.02)	price	107.1	107.1		12.2	(0.21)	-
CDX HY S11 05Y 10-15	405	(0.19)	price.	13.8	13.4		12.2	(2.28)	(0.28
CDX HY S10 07Y 15-25	385	(0.39)	price	58.5	58.1		5.5	(2.15)	(0.15
CDX HY S08 07Y 25-35	282	(80.0)	price	104.3	104.8		11.7	(0.95)	-
CDX HY S10 07Y 25-35	265	(0.16)	price	97.2	96.9		5.5	(0.88)	-
CDX HY S11 05Y 25-35	250	(0.05)	price	104.3	104.1		12.2	(0.64)	-
CDX HY S10 05Y 10-15	232	(0.15)	price	20.6	22,1		21.7	(3.23)	(1.23
CDX HY S08 07Y 15-25	225	(0.19)	price	84.5	85.9		11.7	(2.21)	(0.21
INTERNAL USE ON	LM			2:	1				J.P.Mora

# Daily price testing (cont'd) - Tranche

DOB: 2012-05-22						Total Tranch	(8.40)	1.98
	USD Factored	Credit Spread		CIO Quote	Adj Tranche Priced	independent Index Sprea	d Mark∏ PV	PV Exceeding
Poduct	Notional (\$ mm)	BP Value (\$ mm)	Price Type	(LON Close)	(based on Ref Index)	Quote Chang	e Change (\$ mm)	Cap (\$ mm)
Other Tranche							(54,33)	(29.47)
CDX IG S07 07Y 07-10	110	(0.04)	upfront+500	(4,4)	(5.1)	22.	-	(29.47)
CDX LCDX S10 05Y 12-15	110	(0.04)	price	102.8	102.8	24.8		
CDX HY S08 07Y 35-100	109	(0.03)	price	108.9	109,1	11.3		_
CDX IG S15 05Y 15-100	100	(0.01)	upfront+25	0.2	0.1	2.5	, ,	_
CDX HY S11 07Y 35-100	96	(0.02)	price	110.7	110.6	12.3		
CDX HY S08 07Y 10-15	47	(0.04)	orice	32.1	33.6	11.3	, ,	_
CDX HY S11 07Y 10-15	17	(0.00)	price	6.6	6.7	12.3	. ,	
CDX HY S07 07Y 15-25		(0.01)	price	92.5	96.0	32.6		
CDX HY S07 07Y 35-100	-	(0.00)	price	106.6	106.8	32.0	. ,	_
CDX IG S07 07Y 15-30	-	0.00	upfront+100	(1,3)	(1.4)	22.	. ,	-
CDX IG S07 07Y 30-100		(0.00)	upfront+100	(1,3)	(1.3)	22.		-
CDX IG S08 07Y 03-07		0.00	upfront+500	5.8	11.3	(24.		-
CDX IG S08 07Y 07-10	_	0.00	upfront+500	(5.6)	(3.7)	(24.		
CDX IG 808 07Y 10-15	-	(0.00)	upfront+100	(0,7)	0.0	(24.		
CDX IG S08 07Y 30-100		(0.00)	upfront+100	(1.7)	(1,6)	(24.	,	-
CDX KG S10 05Y 03-07		0.00	upfront+500	(2.6)	(2,6)	2.4	,	_
CDX IG \$10 05Y 07-10		(O.DD)	upfront+500	(4.9)	(4.9)	2.		-
CDX HY S11 07Y 15-25	(30)	0.02	price	51.0	51,3	12,3	0.29	
CDX HY S09 05Y 10-15	(71)	0.06	price	31.6	35.4	25,	1,55	
CDX HY S08 05Y 35-100	(94)	0.00	price	100.5	100.4	(15.5	(0.00)	-
CDX IG S15 05Y 00-03	(195)	0.64	upfront+500	35.0	34.5	2.9	1.85	-
CDX IG S08 07Y 15-30	(375)	0.04	upfront+100	(1.9)	(1.6)	(24.	) (0.88)	
CDX HY S08 05Y 10-15	(812)	0.20	price	98.3	93.5	(15.5	) (3.12)	(1.12)
CDX HY S09 05Y 15-25	(1,055)	0.33	price	99.3	100.7	25.	6.32	6,32
CDX HY S08 05Y 15-25	(1,410)	0.01	price	100,3	100.2	(15.	) . (D.14)	-
ITRAXX MN S15 07Y 22-100	2,552	(0.84)	spread	68.8	61.4	(1	) 1.19	-
TRAXX MN S15 05Y 22-100	2,488	(0.50)	spread	48.5	42,4	(0.	) 0.21	-
TRAXX MN S15 03Y 22-100	383	(0.02)	spread	17.0	14.2	(2.	0.06	-
TRAXX MN S06 10Y 03-06	191	(0.23)	upfront+500	41.7	40.1	7,5	(1.64)	-
TRAXX MN S06 10Y 06-09	26	(0.11)	upfront+300	28.9	27.2	7.0	(0.79)	TDM:
INTERNAL USE ONL	Y			24				J.P.Morga

# Daily price testing (cont'd) - Tranche

COB: 2012-05-22						Т	otal Tranche	(8.40)	1.98
	USD Factored	Credit Spread		CIO Quote	Adj Tranche Priced	independent	Index Spread	MarkIT PV	PV Exceedin
Product	Notional (\$ mm)	BP Value (\$ mm)	Price Type	(LON Close)	(based on Ref Index)	Quote	Change	Change (\$ mm)	Cap (\$ mm
Other Tranche								(54.33)	(29.47
TRAXX MN \$15 03Y 03-06	13	(0.02)	upfront+500	10,8	9.2		(2.7)	0.05	·
TRAXX MN S06 10Y 09-12	-	(0.00)	spread	634.5	589.0		7.0	(0.02)	
ITRAXX MN S06 10Y 12-22		(0.01)	spread	299.8	277.6		7.0	(0.10)	
ITRAXX MN 506 10Y 22-100	-	(0.00)	spread	64.5	57.2		7.0	(0.03)	
TRAXX MN 507 10Y 06-09.	-	(0.00)	upfront+300	28.4	27.9		6.9	(0.02)	
TRAXX MN S07 10Y 09-12	-	(0.00)	spread	617,0	596,5		6,9	(0.01)	
TRAXX MN S07 10Y 12-22	-	(0.00)	spread	285.3	276.1		6.9	(D.00)	-
TRAXX MN S07 10Y 22-100		0,00	spread	64.1	61.5		6.9	0.01	-
ITRAXX MN S15 03Y 00-03	(89)	0.15	upfront+500	49.3	47.4		(2.7)	(0.41)	
ITRAXX MN \$06 10Y 00-03	(132)	0.13	upfront+500	74.8	73.6		7.0	0.88	
ITRAXX MN S15 07Y 03-06	(249)	0.42	upfront+500	36,1	34.2		(1.4)	(D.59)	
ITRAXX MN S15 05Y 00-03	(332)	0.43	upfront+500	62.6	61,1		(0.4)	(0.18)	
TRAXX MN \$15 07Y, 00-03	(376)	0.40	upfront+500	69.6	68.3		(1.4)	(0.57)	
By Family				Change di	ue to the OnTR 5Y	Index		(17.24)	
CDX HY	14,226	(3,41)	price	93.8	93,3	93.3	11.0	(37.49)	
CDX IG	(6,987)	5.94	spread	115.0	118.4	118.3	3,4	20.30	
ITRAXX MN	46,456	(3.89)	spread	170.8	170.8	170.8	0,0	(0.06)	

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BANK PROPRIETARY AND/OR TRADE INFORMATION

OCC-SPI-00089295

J.P.Morgan

# Volume and activity update

	Gross notion	nai (\$mm)	Weekly activ	ity (\$mm)	% of nation	al traded
Series	Untranched	Tranched	Untranched	Tranched .	Untranched	Tranched
CDXIG S09	818,852	557,464	31,954	7,851	3,90%	1.41%
Traxx MN S09	616,556	522,199	17,076	12,705	2.77%	2.43%
CDXIG S18	390,008	N/A	221,241	N/A	56.73%	N/A
Traxx MN S16	292,720	N/A	7,532	N/A	2.57%	N/A
Traxx MN S17	351,346	N/A	197,567	N/A	56,23%	N/A
CDXIG S17	239,782	2,100	19,678	137	8.21%	6,50%
CDX IG S16	178,415	N/A	697	N/A	0.39%	N/A
CDX IG S15	174,828	8,303	866	N/A	0.50%	N/A
CDX HY S17	72,421	650	4,924	N/A	6.80%	N/A
CDX HY S10	71,049	45,217	722	130	1.02%	0.29%
Traxx XO S16	63,828	N/A	1,110	N/A	1.74%	N/A
iTraxx XO S17	72,023	N/A	47,157	N/A	65.48%	N/A
CDXHYS09.	52,839	34,355	673	40	1.27%	0.12%
iTraxx FinSub S17	25,771	N/A	4,904	N/A	19.03%	N/A

236

Source: DTCC (week ending 5/18/12)

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J.P.Morgan

May 25, 2012

May 25, 2012

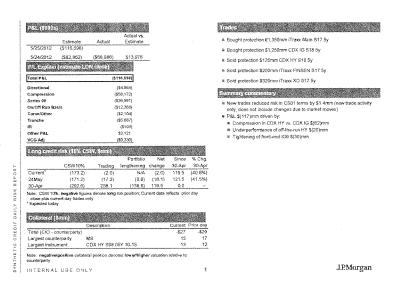
J.P.Morgan

BANK PROPRIETARY AND/OR TRADE INFORMATION

### 2369

#### Executive summary

DRAFT (5/25/12)



BANK PROPRIETARY AND/OR TRADE INFORMATION

# 2370

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CONTRACTOR OF THE	ement y recorded resolution	NAMES OF TAXABLE PARTY.	OCCUPANTAL C	STANSON STANSON	TO STATE OF THE	annount was begin	NUMBER	De C			Chang	e since 400	¥12	Handle Colonial Co.	
(\$mm)		Notional	5Y eqv. OTR Eqv	CS01	Bota Adj. CS01	10% CSW	Syr equ.	C501	Beta Adj CS01	CSW10%	CS01	Beta Adj. G501	CSW10%	Betz 1	
COXX		44,065	57,653	(27.9)	(31.8)	(491)	(2,250)	11	1.3	12.5	10.7	11.4	25.7	1.00	
CDK HY		(100)	(20,473)	7.0	36.6	428	191	(0.1)	(5.4)	(4.3)	(7.4)	(7.7)	(32.5)	5.50	
ITRAXX MN		83.931	23,318	(9.7)	(14.5)	(255)	(1,699)	0.8	1,5	13.2	13.9	20.8	152,0	1 50	
TRAXXXX		(7,523)	(7,152)	2.5	13.5	162	680	(0.3)	(1.7)	(20.4)	(0.7)	(3.8)	(24.9)	5.50	
CDX LCDX		2,367	244	60.03	(0.1)	(6)	0	0.0	0,0	0,0	(0.0)	(01)	(0.2)	5.50	
TRAXX FRISE		(435)	(438)	0.2	0.5		252	ID 13	(0.3)	(3.0)	0.5	06	6.0	3.00	
ITRAXX FINSUE	3	(2,815)	364 D	(0.2)	(0.7)	(11)	0	0.0	0.0	0.0	0.4	1.9	13.3	1.00	
SOVX WE Orrect Single No		800	522	(0.2)	(17)	(20)	0	0.0	0.0	0.0	(0.2)	0.70	(39.5)	7.03	
Urrect aingle rea Total	me	120.299	54,066	(78.4)	2.8	(173)	(2,626)	1.4	1.3	(2.0)	22.9	21.5	119.4	1.00	
* DDX 46 S09 051	Yuman a Neta of D		5-,000	(20.4)		(114)	(2,027)	1,-4	1.0	(4.0)	24.0	11.0	1101-1		
Risk fact		Resk Fact	ors						DAKE	-					
	Underlying	Directions		DEA6	OTRIOFR CS01 (\$mm)	HG/HY CS01 (Sev		Senior E	+ change)						
CDX KG	CSG1 (Smm) (27.9)	CS01 (\$11	5.1	7.7	(22.7		of probes	(123.8)	115.4						
Itraxx Main	(9.7)		J.1	5.2	(13.7		70	(132.5)	(33.2						
CDX HY	7.0			(0.4)	0.0		.0	7.5	38.7						
OX xxentl	2.5				_	. 2	.5	-							
Itraxx Finsub	(0.2)		**	0.3			.2)	-		_					
				12.8	(36.4		4)	(248.8)	120.9						
Subtotal	(28.3)		5.1	12.0	(30.4	h (e.	-7/	(a00)	120.0						
Subtotal Note: Direction						, (		(40.4)	120.3						
Note: Direction	ality excludes C	DX LCDX, ?	Trace FINS	EN, Direct o	ingle names										
Note: Direction		DX LCDX, ?	Trace FINS	EN, Direct o	ingle names pastarie d						tion! (bre	( red)			
Note: Direction	ality excludes C	DX LCDX, 7	Trace FINS 24(172)	EN, Direct o	ingle names	Spread			Basis	s to Theore	dical (bps	spd)			
Note: Direction	ality excludes C	DX LCDX, 7	Trace FINS	EN, Direct o	ingle names	Spread 12 4/30/	12	91.5		s to Theore					
Note: Direction	ally excludes Court and Co	DX LCDX, 7	Tmax FINS (24/12) (24/12) 117,5	5/23/12 118.5	5/22/ 116.	Spread 12 4/30/ 5 94	12 :	3/30/12 91.5	Basis 5/23/1 (4.1	s to Theore	1w (3.9)	1m			
Note: Direction	S18 5 yr S9 5yr	DX LCDX, 7	24/12 24/12 24/12 117.5 81.0	5/23/12 118,5 85,4	5/22/ 118. 86.	Spread 12 4/30/ 5 94 4 68	12 : 7	91.5 70.8	Basis 5/23/1 (4.1 (6.1	s to Theore 2	1w (3.9) (3.0)	1m 1.7 9.5			
Note: Direction	ally excludes Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Court and Co	DX LCDX, 7	Tmax FINS (24/12) (24/12) 117,5	5/23/12 118.5	5/22/ 116.	Spread 12 4/30/ 5 94 4 68	12 : 7	3/30/12 91.5	Basis 5/23/1 (4.1	s to Theore 2	1w (3.9)	1m			
Note: Direction Matricel St	S18 5 yr S9 5yr	DX LCDX, 7	24/12 24/12 24/12 117.5 81.0	5/23/12 118,5 85,4	5/22/ 118. 86.	Spread 12 4/30/ 5 94 4 68 2 119	12 ; 7 ; 1 ;	91.5 70.8	Basis 5/23/1 (4.1 (6.1	s to Theore 2 1) 1)	1w (3.9) (3.0)	1m 1.7 9.5			
Note: Direction Matricel St CDXIG CDXIH	STB 5 yr S9 5yr S9 10yr S18 5 yr	DX LGDX, ?	24/12 117,5 81.0 159.5	5/23/12 118,5 86,4 159,2	5/22/: 116. 86. 158.	Spread 12 4/30/ 5 94 4 68 2 119 8 579	12 : 7 1 1 4	91.5 70.8 113.1	Basis 5/23/h (4.1 (6.1 (1.5	s to Theore 2 1) 1) 9)	1w (3.9) 3.0 4.3	1.7 9.5 13.7			
Note: Direction Matricel St CDXIG CDXIH	STB 5 yr S9 5yr S9 10yr S18 5 yr S18 5 yr S17 5yr	DX LCDX, ?	7/4/12 7/4/12 117.5 81.0 159.5 370.0	5/23/12 118.5 85.4 159.2 676.6 181.0	10 (4/54) 15 (4/54) 16 (5/22) 118. 86. 158. 674.	Spread 12 4/30/ 5 94 4 68 2 119 8 579 5 140	12 : 7 : 1 : 4 : 7 : 5 :	3/30/12 91.5 70.8 113.1 578.9	Basis 5/23/h (4.1 (6.1 (1.5 25.8	s to Theore 2 1) 1) 9) 8 (7	1w (3.9) 3.0 4.3 (1.8)	1m 1.7 9.5 13.7 28.5			
Note: Direction	S18 5 yr S9 5yr S9 10yr S18 5 yr S18 5 yr S17 5yr S9 10yr	DX LCDX, 7	724/12) 24/12) 117.5 81.0 159.5 870.0	5/23/12 118.5 85.4 159.2 676.6	5/22/1 118. 86. 158.	Spread 12 4/30/ 5 94 4 68 2 119 8 579 5 140 0 170	12 : 7 : 1 : 4 : 7 : 5 :	3/30/12 91.5 70.8 113.1 578.9	Basis 5/23/h (4.1 (6.1 (1.5	s to Theore 2 11 11 11 12 13 13 13	1w 3.9) 3.0 4.3	1m 1.7 9.5 13.7 28.5			

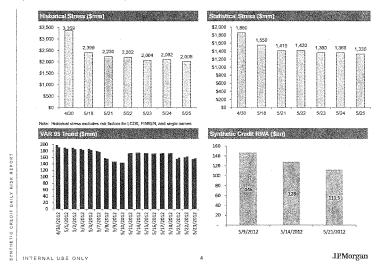
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Notional overview

	I	National (\$	inus) (cop	5/25/12)			Notional (	anin) (cr	b 4/30/1	zj		Change		
	CDX 15 vs. III	IG 9 Other IG High Yield	Notional 48,460 1,905 (17,869)				IG 9 Other IG High Yield	Notional 82,460 (14,500) (20,609)				IG 9 Other IG High Yield	Notional (34,000) 16,405 2,740	
	That Main vs. Consover	iTraxx Main iTraxx XO	Notional 30,313 (5,984)				(Traxx Main (Traxx Cross	54	5onal ,948 i,864)			Traxx Main Traxx XO	Notional (24,636) 880	
	Tranche positions	IG 9 IG 9 5 yr IG HY iTrexx	Total (5,940) (22,400) (360) 17,769 36,395	Equity (1,355) (3,570) (195) 4,291 (3,230)	Mezz (33,020) (18,560) (265) 4,183 440	Senior 28,435 (270) 100 9,295 39,185	IG9 IG95yr IG HY iTraxx	Total (5,940) (22,400) (340) 17,789 36,395		(33,020) (18,560) (245) 4,203	Senior 28,435 (270) 100 9,295 39,165	IG 9 IG 9 5 yr IG IG HY ITrabx	Total 0 0 (20) (20) (20)	
RISK REPORT	Other positions	FinSub LCDX	Long 2,411 4,075	Short (4,649) (1,688)			FinSub LCDX			Short 4,649) 1,688)		FinSub LCDX	Long (650) 0	Short 0
IC CREDIT DAILY	Memb: IG9 expressive (by mathemy)	IG 509 (15Y IG 509 (17Y IG 509 10Y IG8	Notional (32,723) 34,193 45,989 48,460				CDXIG S09 CDXIG S09 CDXIG S09 IG9	105Y (32 107Y 34 110Y 80	5,723) 1,193 1,989 2,460			IG S09 05Y IG S09 07Y IG S09 10Y IG9	Notional 0 0 (34,000) (34,000)	
SYNTHETIC	Note: Positive/Negat		denotes lan	gishort risk			3					J	.P.Morga	n

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### Synthetic credit book - key metrics



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### Summary of Synthetic Credit Book - historical stress

- R Pricing to equilibrium. In addition to below risk factors, some indices will lose value as they move from richness to fairness
  Synthetic credit book exposed to six risk factors Each factor represents a directional exposure
  In the short-to-medium term, these exposures can be partially mitigated But not eliminated

and the following of the control of	e de la particular de la composición de la proposición de la proposición de la proposición de la proposición d La particular de la proposición de la proposición de la proposición de la proposición de la proposición de la p	5/25/12	4/30/12
Risk Factor	Description of when position loses money	Ristorical worst single day	Historical worst single day
Credit spread widening (Directionality)	# If credit spreads widen across markets	\$369mm	\$3,253mm
2. Maturity mismatch (Curve)	If credit spreads of iong-maturity positions get wider     relative to short-maturity positions	14mm	.89mm
3. High Yield vs. Investment Grade	at thigh yield positions outperform investment grade positions relative to their portfolio weighting	2,077mm	1,441mm
4. Illiquidity of older Indices / Tranches (On-the-Run vs. Off-the-Run)	<ul> <li>if credit spreads of the older index (the "off-the-run" index) widen relative to more-recently issued indices (the more "on the run" indices)</li> </ul>	186mm	1,085mm
5, "Super senior" debt vs. "equity" positions (Tranches)	# If there is an increase in the correlation implied between defaults among names within the tranches	505mm	505mm

B if credit events happen to companies for which we have "sold protection" \$2,006mm \$3,359mm Portfolio worst day

Note: Historical stress excludes risk factors for LCDX, FINSEN, and single names

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6. Default risk (Risk on individual names)

# Summary of Synthetic Credit Book – statistical stress

- Pricing to equilibrium. In addition to below risk factors, some indices will lose value as they move from richness to fairness
   Synthetic credit book exposed to six risk factors Each factor represents a directional exposure
   In the short-to-medium term, these exposures can be partially mitigated But not eliminated

		5/25/12	4/30/12
lisk Factor	Description of when position loses money	95%/ile foss potential	95% ile inss potential
1. Credit spread widening (Directionality)	If credit spreads widen across markets	\$220mm	\$710mm
2. Maturity mismatch (Curve)	<ul> <li>If credit spreads of long-maturity positions get wider relative to short-maturity positions</li> </ul>	140mm	160mm
3. High Yield vs. Investment Grade	# If high yield positions outperform investment grade positions relative to their portfolio weighting	1,060mm	810mm
4. Illiquidity of older indices / Tranches (On-the-Run vs. Off-the-Run)	If credit spreads of the older index (the "off-the-run" index) widen relative to more-recently issued indices (the more "on the run" indices)	510mm	1,400mm
5, "Super senior" debt vs. "equity" positions (Tranches)	© If there is an increase in the correlation implied between defaults among names within the tranches	490mm	490mm
6. Default risk (Risk on individual names)	8 If credit events happen to companies for which we have "sold protection"	291mm	291 mm
	Est, total diversified 95% loss potential	\$1,330mm	\$1,860mm

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### Synthetic Credit risk factors details

Sensitivity analysis		THE REAL
Scenario	Sigma L	oss (\$mm)
90.0% percentile	1.28	1,100
95,0% percentile	1,64	1,330
97.5% percentile	1.96	1,550
99.9% percentile	3.09	2,340
Downside Case A ¹	N/A	2,711
Downside Case B ²	N/A	4,475

### Assumptions behind analysis

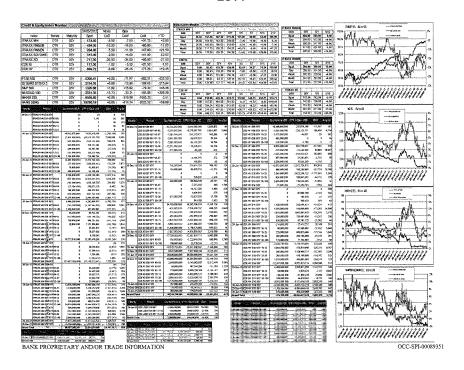
- ▼ Credit spread widening (Directionality) Net directional loss estimate assumes correlation based on 1yr data
- Wolatility measured as relative movement of longer maturity spread vs. shorter maturity spread adjusted for overall drift
   Combined across asset classes assuming zero correlation
- # High Yield vs. Investment Grade
- ช Volatility based on relative spread movement netted for overall directionality
- N Assumes zero correlation between these differences for US and Europe
- Illiquidity of older Indices/Tranches (On-the-run/Off-the run risk)
- Series 9 is assumed as the off-the-run position
   Risks are combined assuming zero correlation
- # "Super senior" debt vs. "equity" positions (Tranches) Risk factor based on extreme movements of correlation as seen during the credit crisis
- Default risk (Risk on individual names) Exposure based on comprehensive simulation of default risk using capital model
- Diversified sum All above risk measures combined assuming zero correlation

¹ Diversified sum of 95.0% percentile; ² Diversified sum of 99.9% percentile INTERNAL USE ONLY

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CC2K, N3	-29.006.014	-32297T-450	59,502,691,199				(6,2%) 2	55,080,961		17,482	1			1-4% tighter scro				conversion
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SOUCK FARING	-156,402	-905,811	364,104,469					57,913,780		3,192	1			edil risk -519mm	10%CSV*-3	1.3mm CSO1		
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Single Names	-247,547	-1,709,400	R000,0000,000	-20,409.37	-102345,1	20, -110,5	27,773; -3.	\$3,952,361	٥.	ol.	1		(1) Risk does ec	enflocitive application	on 15.9.10v rs. 10	G.18.3V seld to	client, Cation	grants client
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RXX MV Hotel	152,751,825,800	24 21 25 18 61 X	98 354183 86 343163	3 200 400	100 000, MA	570,394.463 550,395.398	-197,580,477 596,791,258	688.445,617 934.056713	12.394,835,00	\$3.2% 52% 666 5 3.2% 666.00		2121 ent(08)	-5,72E 825-306 -16 866:000	177,327,980	122,993152	41,585	373,790	30,496.725 (6,734.99)
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TAXX MN09-12	885 000,000	1,770,350	228 727-63	354,953	194 859,425	3631 372	-6.455,767	-136,034,786	66,65,00	686,560,000				105002	-15 123 771	279:753	525.651 -726-651	-1 502.754 Wile 956
RADIO Nº 12-22	-130 000 KH			252,285	966.742	6507 138 -2017 130 006	44) 114	31/16/20	78.185.000,00	400,560 000 29 185,090,000	1 6		725,900,000	475.765.705	17725640	1.00,440	3,123,546	47.55.7711
RACE MIN THIS	CREAT, 955, 30			-28.216.344		-90 01 70	13 (42 (45	2 - 12 7 - 1 3 6	98,150,549,50		1 100 000 000	3.163.003.000	21.073 EU SA	-301.442.560	283,776.419	25,260,095	35,894,216	FR. 172.195
COSTO CONTRACT	143 180 554 545	5,503,503,230	294 -3020849		120 404,187	501,081,004	7529336	282423424	E 10 19 2	62511,680,986	-695,500,000	-2562750,000	-17.077 BALTON	420.00m.1615	-575,765,754	(,500 (6))	65,944(33)	1200 217
CDX KYHMIGE	715,774,960,000	616,664315	800 44667.9		-27 042-926	HC20208	-555,215 720	196 394 583	115,774,999,00	115 693,450,000	10,100,400	2,860,000,000	1,717,800,000	00.000.006	-H 16673v	4794600	1,536,56	48,186.65T
CONTROL	158/30033			4.825.901	15794.162	10.495.35	458313.594 5-585.540	254,000,000 47566,798	1,250,000,000				-20,800,700	1277(120)	2576306	4 46655	-301-491	960 300
CON 10 FB 97	1505.000.00		520 900 PG	1,867,704	25/88/20	19.864.299 -1001.027.001	-1212(46)	40566,796 -150,600,345	1,225,084-96		] [		12,000,001	22.562.00	243H MG	265,670	76,726 3	-310204
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039,33 15-30	125,350,900,00	8.31E-405	29 437559	3,856.476	91 199, ENG	229,724,427	13,932,598	568,290,330	-33,353,000,00	00 1,994,606,EE- 00			1 4	\$5,100,606	£1,797 (05)	-2187,299	7,410,531	18,922,006
CDX G 70-100	28 435 860,03	7,250,510	WA -1,7910W	-1,756.250	-56,540,636	268 28 Carri	446,735	43288173	261331466-00		79/200/200	2	21 NO HO HO	-30,340,276 431,485,387	-89 EN 200	1,014,214	15.000 941	22.90 (41)
DI HT DANKS	44,714,754,00	20,702,691	.196 -25.500.00 .025 - 27.568	3,072,004		50 MA NO	250,000 301 140,000 224	3 106 20 542	64,303,50	47,064,796,506	375.000.630	-5,973,960,600 2,201,700,000	1,144,850,000	429,606,1201	491 6633/66	2,550,15-1	45,466,467	1946-211
CDRAFT HISSON		2 (4.969.764.75)			125.268.782	DK 23 32	40.00(20)	132387172	7,667,190,60		4	-186 750,000	1,272 (50,000	126,254,00	198,814,360	5240575	2.002300	5 762 378
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CORNY 1015	4,254,500,00			4,567,600	Q1 654 A10	71.066,450	97,913,297	40798557	4,250,505,00				2000	21.064 412	-32.127.631 -33.999.61	-8514791 27606961	1,705 679	266 98
CDX HY 15:25 CDX HY 15:35	1,180,000,00 2,996,000,00			3,317,382	-81.249.865 -34.564.222	-003,044,567 -06,981,626	-123/697,989 -8/643/619	-9223563AC	1,193,000,60	1,193,060,600 06 X 896,000,000		9	15000000	-81,049,000	-51999.801 -15793.87	2,50,999	1,775.750	381776
CIK-W 25-35 CIK-W 26-150	4,85,000,00			-1 229 321	- SA STILTER	-76,733,617	-142226	-129,142,513	9,296,000,00	00 8:300:000/cup	1 :		1 8	254,171,162	14 (72 199)	205.451	1,346 901	-2 622 627
COVERT THE	271,760,50	6 -28.964.573	GY 1581.77		A12494.601	2164 563 355	8 M 50	2,83591.62	-325,200,340	69 419 200,000	555,800,600		2432 660,000	630,466,650	455,776,574	-23,502,983	40,540,365	-30 Sec. 735
THE LOCKS CARRIES	50,390,00	15.665.7%	560 -400		44.5	55.60	75, 110	310,780	51 356 00	51,331,700		127,250,000	-28/250000	12.45	55185	-983	712828	265.542 467.052
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# Appoint S. Appoint S. B. Curve exposure (Investment Grade CDX and ITraxx Series 9)IG vs. HY Investment Grade vs. High Yield (Compression) Diff-the-run index risk Directionality Tranche Risk Default profile Limits Differences Summary Daily trades (May 25, 2012) Synthelic credit risk overview Daily price testing – Index Daily price testing – Tranche

BANK PROPRIETARY AND/OR TRADE INFORMATION

2379

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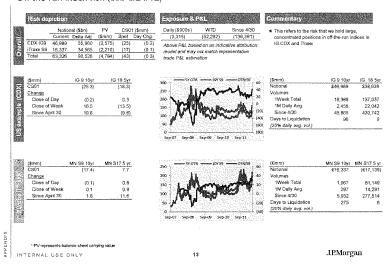
2380

### DRAFT (5/25/12) Investment Grade vs. High Yield (Compression) (cob 5/24/12) Risk depiction Exposure & P&L Commentary P&L (\$000s) Compression COXIG vs. HY iTraxx MN vs. XO Other WTD Since 4/30 (144,921) (436,584) (134,901) (133,124) (9,045) (321,601) (975) 18,151 We are long investment Grade and Short High Yield such that we lose if High Yield widens (narrows) less (more) than a ratio of 5:1 to investment Grade Compression exposure detail Decompression 19% CSW CDX IG CDX HY/LCDX \$mm (493) 432 Above P&L based on an indicative attribution model and may not match representative trade P&L estimation ITRAXX MN/FINSEN/SOVX ITRAXX XO/FIN SUB (260) 171 CDX IG CDX HY S17/S18) (S17) \$45,977 (\$7,101) CDX HY (S17) 12/20/2016 (\$7,101) 2.4 153.6 (\$17/\$18) 3/21/2017 \$46,977 (Sinm) National 6 Notional 3/11 3/12 1 Notional 3/11 3/12 1 Name S 1 Note Notal 3/11 3/12 1 M Daily Avg. 1 Note 3/10 1 Maturity Notional CS01 10% CSW CSW 10% Change Close of Day Close of Week Since April 3D 9 3/10 3/11 3/12 (22.0) (255.1) CS01 Spread (22.0) 117 2.4 670 5.70x (2.5) (14.1) (9.2) iTraxx MN iTraxx XO (\$18/\$17) (\$16) (£2,844) (£4,917) notional) Maturity Notional CS01 10% CSW (64,917) 2.0 135.9 (€2,844) 3/30 3/11 3/12 mt (2) 2.1 35.6 CSW 10% Change Close of Day Close of Week Since April 30 13.1 31.8 201.0 (2.2) (\$mm) (7.7) MN (\$15/\$17) (9.0) XO (\$16) MN vs. XO ratio (\$190.1) \$2,126.5 3.58x 10.08x JP.Morgan INTERNAL USE ONLY

BANK PROPRIETARY AND/OR TRADE INFORMATION

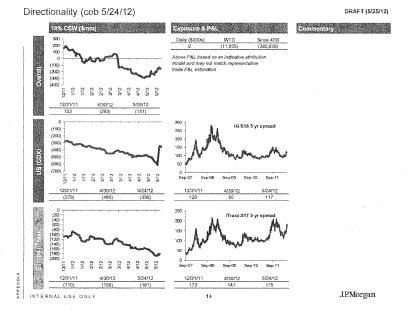
### DRAFT (5/25/12)

### Off-the-run index risk (cob 5/24/12)



BANK PROPRIETARY AND/OR TRADE INFORMATION

2382



BANK PROPRIETARY AND/OR TRADE INFORMATION

DRAFT (5/25/12)

# Tranche Risk (cob 5/24/12)

	Correlation 10% si	41 P4 Table 2015	SERVERS			* 150	
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		Tranches	Total	Teu	180	180	
	CDX.IG Junior	0-30%	125	Ahoua P&I ha	indice no base	ative attribution	
	CDX.IG Super Senior	30-100%	(166)	model and ma			
	CDX IG Total		(41)	trade P&L esti			
	CDX.HY Junior	0-35%	37	7,00-1 00 000			
	CDX.HY Super Senior	35-100%	8				
	CDX.HY Total		45				
	Traxx Junior	0-22%	(29)				
	Traxx Super Senior	22-100%	(154)				
	iTraxx Total		(183)				
	Grand total	Self section is	(179)				
	John Louis						
155000		Long IG 9	Short				
		Super St. 10yr	0-30				
·	10% Corr D1	(18)	25				
	Change	(10)					
	Week To Date	-0.06	0.00				
	Since April 30	-3.10	0.38				
	Caroo i pin co			Graphs of 1	0% correlatio	n shift	CID Vol traded since Apr 30th
				Theoretical	max gain/loss	based on 10%	Implied Daily, weekly P/L
				Corr and Sp	read orach		ітрнеа рану, меєкіу РА
		Long iTraxx 9	Short				
<b>.</b>	~~~~	Super 10yr	0-22				
	10% Corr 01	-15	11				
200	Change						
CONTRACT.	Week To Date	0.28	-0.04				
1558550	Since April 30	-0.72	-0.90				

BANK PROPRIETARY AND/OR TRADE INFORMATION

# Default profile (cob 5/24/12)

	Total exposure												
	NAMES OF TAXABLE PARTY OF TAXABLE PARTY.	<b>F</b> of	#Names		given ault	# Names w/ default	P&L g						
100	Portfolio	names	loss risk	Avg.	Max	gain risk	Avg.	Max.					
) Overall	Portfolio (today)	675	74	(\$46)	(\$236)	601	\$151	\$622					
100	Portfolio (post Dec. 12)	672	248	(245)	(584)	424	127	622					
	IG9 only (today)	121	0	0	0	121	270	547					
	IG9 only (post Dec. '12)	121	121	(451)	(584)	0	<u>D</u>	0					
	Top 5 exposures												
	Loss	5550	TIEU		MILLE)	SENER!		C	ain		Talua (1		9555
1000	Pre December 2012		(\$mm)	Post Decer	nber 20	12	(Smm)	P	re December 2012	(Smm)	Post December	2012	(Smm)
	1. H. J. Heinz Company		(231.6)	Capital     Nationa			(578.5)	1	Liz Claiborne, Inc.	518.3	1. Brunswick C	orporation	254.0
	2. Boston Scientific Corpo	oration	(225.5)	2. Wyeth I	Jc		(519.1)	2	Gannett Co., Inc.	518.3	<ol><li>The New You Company</li></ol>	rk Times	242.0
	3. Directy Holdings Lic		(223.8)	3. Comeas Commu		s. Llc	(517.7)	3	Lennar Corporation	517.5	3. The Tix Con	penies, Inc.	235.7
	L-3 Communications     Corporation		(217.6)	4. Goodnio	h Corpo	ration	(515.9)	4	. Belo Corp.	516.1	4. Temple-Inla	nd Inc.	222.6
	5. Nabors Industries, Inc.		(212.7)	5. Baxter l	nternatio	onal inc	(515.3)		Limited Brands, Inc.	509.1	5. Dean Foods	Company	221,8
TO SHEET	Pre June 2013		(Smm)	Post June	2013		(\$mm)		re June 2013	(\$mm)	Post June 2013		(Smm)
1 200	1. Imperial Chemical Indu	esitze	(1.6)	1. Imperia		:al	(1.6)		Gas Natural Sdg, S.A.	627.3	<ol> <li>Gas Natural</li> </ol>	Sdg, S.A.	627.3
1988	<ol><li>Altadis Sa</li></ol>		(1.5)	<ol><li>Altadis</li></ol>			(1.5)		. Gdf Suez	567.1	<ol><li>Goff Suez</li></ol>		587.1
	3. Hanson Limited		(0.1)	<ol> <li>Royal 8 Insuran</li> </ol>		iance	(0.7)		Unicredit, Societa Per Azioni	501.1	<ol> <li>Banca Mont</li> <li>Di Siena S.i</li> </ol>	2.A.	461.0
	<ol> <li>L'Air Liquide Societe         Anonyme Pour L'Etude         L'Exploitation Des Prod     </li> </ol>		(0.0)	4. The Ro		Of	(0.6)		. Banca Monte Del Paschi Di Siene S.P.A.	484.6	<ol> <li>Banco Bitba Argentaria, Anonima</li> </ol>	Sociedad	455.1
	<ol> <li>Deutsche Bahn Aktiengesellschaft</li> </ol>		(0.0)	5. Hanson	Limited		(Ö.1)	5	. Banco Bilbao Vizcaye Argentaria, Sociedad Anonima	479.4	5. Unicredit, S Azioni	ocieta Per	453.4
- 1	TERNAL USE ONLY						16				JPI	Morgan	

BANK PROPRIETARY AND/OR TRADE INFORMATION

DRAFT (5/25/12)

### Limits

	Usage	Synthetic		Usage	Syntheti
Limit (Smm)	5/24/12	Limit	Limit (Smm)	5/24/12	Lim
CS01 Unadjusted			VaR	156.5	180.0
CDX.HY	7.1	8.6			
CDX.LCDX	(0.0)	1.8	Compression		
CDX,IG	(29.0)	39.4	US Compression Limit	432.2	496.0
iTraxx MN	(10.4)	23.7	EUR Compression Limit	170.9	174.0
iTraxx XO	2.8	3.3			
iTraxx Finsub	(0.2)	0.6	Tranche Limits		
iTraxx Finsen	0.3	0.5	10% Corr Shift	(178.5)	175.0
CSW10%			Steepen10%		
CDX.HY	432.5	496.0	CDX.HY	(84.0)	64.1
CDX.LCDX	(0.3)	9.1	CDX.LCDX	0.2	0.5
CDX.IG	(493.5)	549.0	CDX.IG	(406.5)	436.
Traxx MN	(268.5)	434.0	Traxx MN	(163.5)	265.1
iTraxx XO	182.0	201.0	iTraxx XO	58,6	65.
Traxx Finsub	(11.2)	27.0	Traxx Finsub	(22.1)	30,
(Traxx Finsen	8.2	12.0	Traxx Finsen	4.1	8.8
Large Index Notionals					
CDX.IG.9.7Y	34.2	34.2			
CDX IG.9.10Y	. 47.0	81.0			
iTraxx S9 7Y	5.4	5.4			
iTraxx S9 10Y	13.0	13.0			

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BANK PROPRIETARY AND/OR TRADE INFORMATION

	PRI					(20)((2)		ESTATE SAN			
30 Credit											
By counter	ра	rty (Smn	1)		By instrument	(Smm)		A Again			
		Sum of	Sum of CP	Sum of MTM				Sum of CP			
Curterparty		MTM	MTM	Det	Instrument		m of MTM		mai MTM Off		
iA.		(32)	(32)	0	CDX IG S09 10Y 00-0		(1,410)	(1,292)	(18)		
BVASA		0	0	0	TRAXX MN \$36 16Y		56	66	(10)		
SNET?		382	391	(9)	CDX HY S09 05Y 15-		(9)	(2)	(6)		
SOA .		35	43	(9)	CDX HY S08 05Y 10-		27	15	12		
BPLC		(105)	(103)	(2)	TRAXX MN S09 10Y		(604)	(604)	(0)		
BKAG		(1)	(2)	0	CDX IG S09 05Y 00-0	13	428	40t	27		
CGME,		(6)	(7)	. 1	CDX IG S18 05Y		22	11	11		
	4	(115)	(129)	14	CDX IG 509 10Y 16-1	5	232	221			
Si		(207)	(208)	0	CDX HY S11 07Y CDX KG S09 10Y 15-3		(17) 50	(16) 41	(2)		
	4	(54)	(52)	(2) 5		iu.	1,548	1.611	(63		
BKAG		384	379		Other Total		323	352	(29)		
isi ISBCEU		(27)	(26) 9	(1)	Totas		020	336	(25)		
ISBOUS		12	(9)	2							
16.1 16.1		5	5	(0)							
ASCS	4	130	†13	17							
risko 15iL		(96)	(92)	(3)							
OMURAIP		124	128	(5)							
BSPLC		74	74	0							
GOID		(43)	(21)	(22)							
BSAG		(130)	(111)	(19)							
otal		323	352	(29)							
	19000	is programme and the second				THE PROPERTY OF	ereasements and		RACHER SCHOOL		
ele systim			dh MarkiT								
CHARLES SERVICE	रश	Marie Care A.	COSTANDED	WE'SWEET	through the said		PERMIT	Pricing tol			
ndex (Smr	n)				Tranche (Smm) ¹			Pricing to	erance		
			Market PV PV			TPV PV		Position	Position	Independent	
		***	Change	Cap'		ange	Cap*	Туре	Тура	Source	Notes
ieries 09 Index			45.6	33.2		22.9	16.1	Index - IG	35 bps	Market	Aggregate max: \$50mm
Other Index Subtotal			(15.8) 29.7	(23.7)	Other Index (	19 t) 3.8	(15.3)	Index - HY	1 bps	Markit	Appregate max: \$50m
nereds:			29.7	9.5	Sociata	2.0	0,0	Tranche	\$2mm	Dealer quotes	Per position
y Family					By Family						
COXIG			17.6			15.1					
COXHY			(45,7)			(2.7)					
ITRAXX MN			(0.1)			(0.0)					
ITRAXX XO			2.6			12.4					
			ACRES IN A								
Chg. in OnTF	2 5Y		(26.5)								

BANK PROPRIETARY AND/OR TRADE INFORMATION

### DRAFT (5/25/12)

# New trades

Date		Risk	Notional	Product	Materity	Counterparty	Traded Price	Traded Spread	Previous Day Price	Previous Day Spread	Closing Price	Closin Sprea (bps
25-May-12	1	LONG	10,000,000	CDX HY S18 05Y	20-Jun-17	JPMCS NY CDS (HY Index)	93.13		\$3,3125		93.75	
25-May-12	2	LONG	25,000,000	CDX HY S 18 05Y	20-Jun-17	SOCGEN	93.25		93,3125		93.75	
25-May-12	3	LONG	15,000,000	CEX HY S18 05Y	26-Jun-17	JPMCB NY CDS (HY Index)	93.25		23.3125		93.75	
25-May-12	4	SHORT	(230,000,000)	CDX IG S18 05Y	20-Jun-17	NOMURA LON		117.63		118.00		117
25-May-12	5	SHORT	(250,000,000)	CDX IG S 18 05Y	20-Am-17	NOMURA LEN		117.75		118.00		117
25-May-12	6	SHORT	(500,000,000)	CDX IG S18 05Y	20-Jun-17	JPMC BK NA NY - INDICES		117.75		118.00		117
25-May 12	7	LONG	400,000,000	ITRAXX XO S16 05Y	20-Dec-16	CID EMEA COS ABS		682,50		682.50		634
25-May-12	8	LONG	50,000,000	CDX HY S18 D5Y	20-Jun-17	NOMURA LDN	93,56		93.3125		93.75	
25-May-12	9	LONG	50,000,000	CDX HY \$18.05Y	20-Jun-17	JPIMCB NY COS (HY Index)	93,56		F3.312S		83.75	
25-May-12	10	LONG	25,000,000	COX HY S18 05Y	20-Jun-17	JPMC5 NY COS (HY Index)	93.50		93.3125		83.75	
25-May-12		SHORT		CDX IG S18 05Y	20-Jun-17	BNP LDN		117.99		118.00		117
25-May-12	12	SHORT		CDX (G S18 05Y	20-Jun-17	NOMURALDN		117.88		118.00		117
25-May-12		SHORT		COX IG 518 05Y	20-Jun-17	NOMURA LDN		118.00		118,00		117
25-May-12		LONG		ITRAXX FINSEN \$17.05Y	20-Jun-17	BNP LDN		294,00		292.00		297
25-May-12		LONG		ITRAXX FINSEN \$17.05Y	20-Jun-17	BNPLDN		294.00		292.00		297
25-May-12		LONG		ITRAXX FINSEN S17.05Y	20-Jun-17	BINP LDN		296.00		292.00		297
25-May-12	17	SHORT		ITRAXX MN S17 05Y	20-Jun-17	CLTIBANK NY		172.00		173.60		174
25-May-12	18	SHORT		ITRAXX MN S17 D5Y	20-Jun-17	DEUTSCHE LDN		175.25		173.60		174
25-May-12	19	SHORT		TTRAXX MN S17 USY	20-Jun-17	DEUTSCHE LON		175.00		173.60		174
25-May-12	20	SHORT		TRAXX MN 517 05Y	20-Jun-17	DEUTSCHE LDN		173.00		173.60		174
25-May-12	21	SHORT		ITRAXX MN S17 DSY	20-Jun-17	CITIBANK NY		174.75		173,60		174
25-May-12	22	SHORT		HTRAXX MN S1705Y	20-Jun-17	DEUTSCHE LDN		174.50		173.60		174
25-May-12	23	SHORT		TTRAXX MN S17 05Y	20-Jun-17	DEUTSCHE LON		173.25		173.60		174
25-May-12	24	LONG		ITPLAXX XO S16 05Y	20-Dec-16	BNP LDN		685.00		682,50		584
25-May-12	25	LONG		ITRAXX XO S18 05Y	20-Dec-16	BNP LCN		688.00		682.50		584
25-May-12	26	LONG		ITRAXX XO S17 05Y	20-Jun-17	CITIBANK NY		718,50		714.50		717
25-May-12	27	LONG		ITRAXX XO S17 D5Y	20-Jun-17	BNP LDN		717.50		714.50		717
	28	LONG		(TRAXX XO S17 05Y	20-Jun-17	CITIBANK NY		722,00		714.50		717
25-Mey-12	28	LONG		ITRAXX XO S17 DSY	20-Jun-17	BNP LON		717.00		714.50		717
25-May-12 25-May-12	30	LONG		ITRAXX XD S17 DSY	20-Jun-17	BNPLON		714.00		714,50		757
2.44, 12												
											JP:	

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BANK PROPRIETARY AND/OR TRADE INFORMATION

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# Daily price testing - Index

COB: 2012-05-24							Yotal Index	29.72	9.5
	USD Factored	Credit Spread		CIO Quote	Markit Quote	ICE Quote	MarkIT Spread	Mark(T PV	PV Exceeding
Product	Notional (\$ mm)	BP Value (\$ mm)	Price Type	(LON Close)	(NY/LON Close)	(NY/LON Close)	Difference	Change (5 mm)	Сар (\$ ли
Other Index							£	(15.79);	[23.5
CDX (G \$16.05Y	(18,229)	7.21	spread	104.5	104.8	104.6	0.3	2.08	
ITRAXX MN S16 05Y	13,561	(5,67)	spread	173.9	174.3	173.9	0.4	(2.45)	
ITRAXX MN S15 05Y	5,109	(1.92)	spread	177,7	177.1	177.7	(0.6)	1.23	0.2
ITRAXX FINSUB 51406Y	1,642	(0,49)	spread	495.0	498.3		3.3	(1.63)	{1,3
ITRAXX FINSUB \$16.05Y	1,316	(0.52)	spread	517.0	520.1		3.1	(1.60)	(1.3
ITRAXX MN S15 07Y	1,114	(0.58)	spread	194.6	193,5		(1.1)	0.62	0.3
ITRAXX MN S06 10Y	100	(0,04)	spread	214.6	222.4		7.8	(0.31)	(0.2
ITRAXX FINSUB \$17.05Y	75	(0.03)	spread	495.0	495.7		0.7	(0.02)	10.0
ITRAXX FINSUB 507 05Y	(117)	0.00	spread	580,0	466.0		(114.0)	(0.10)	(0.1
ITRAXX XD S17 05Y	(547)	0.19	spread	714.5	715.4	714,5	0.9	0.18	٠.
ITRAXX FINSUB \$15.05Y	(572)	0.19	spread	511,0	510,4		(0.6)	(0.12)	(0.0
ITRAXX FINSUB 508 05Y	(664)	0.04	pread	437.0	429.9		(7.1)	(0.27)	(0.2
ITRAXX FINSEN \$17.05Y	(690)	0.29	spread	292.0	293,3		1.3	0.36	9.2
ITRAXX FINSUB \$12.05Y	(976)	0.22	spread	473.5	481.9		8.4	1,87	1.7
ITRAXX FINSUB \$10.05Y	(1,390)	0.21	spread	453.0	458.5		5.5	1.34	1.0
(TRAXX MN S18 10Y	(1,667)	1.25	scread	191.1	188.7	191,1	(2.3)	(2.92)	12.3
(TRAXX XO \$15.05Y	(1.791)	0.54	spread	629.5	629,2	629,5	(0.3)	(0,16)	
TRAXX MN S15 10Y	(2,054)	1,47	sproad	195.4	197.4	195.4	2.0	2.95	22
TRAXX FINSUS S09 05Y	(2,129)	0.22	spread	430.0	442.1		12.1	2,69	2.5
ITRAXX MN S15 G3Y	(3,534)	0.72	spread	152.6	148.9		(3.7)	(2.61)	(2.2
ITRAXX XO \$16 DSY	(6,187)	2.07	spread	682.5	684.3	682.5	1.8	3,63	1.5
TRAXX MN S17 05Y	(17,139)	7,86	aprend	173.6	173.6	173.6	0.0	0.06	
By Family					OnTR 5Y Contra		L	[26.54]	
CDX IG	51,076	(36.21)	spread	118.0	117,5	117.3	(0.5)	17.58	
CDX HY	(19,792)	10.52	price	93.3	93.5	93.5	(4.4)	(46.65)	
ITRAXX MN	39,837	(9,90)	spread	173.6	173,6	173.6	0.0	(0.07)	
ITRAXX XO	(8.435)	2.81	spread	714.5	715.4	714.5	0.9	2.61	
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BANK PROPRIETARY AND/OR TRADE INFORMATION

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Daily price testing (cont'd) - Index

COB: 2012-05-24							Total Index	29.72	9.53
	USD Fectored	Credit Spread		CIO Quote	Markit Quote	ICE Quote	MarkIT Spread	MarkIT PV	PV Exceeding
Product	Notional (\$ mm)	BP Value (\$ mm)	Price Type	(LON Close)	(NYALON Glose)	(NY/LON Clase)	Difference	Change (\$ mm)	Cap (\$ mm
Other Index							Г	(15.79)	(23.67
CDX IG \$16 D5Y	(18,229)	7.21	soread	104.5	104.8	104.6	0.3	2.08	
ITRAXX MN S16 05Y	13,561	(5.67)	spread	173.9	174.3	173.9	0.4	(2.45)	-
ITRAXX MIN \$15.05Y	5.109	(1.92)	spread	177.7	177.1	177.7	(0.6)	1.23	0.27
ITRAXX FINSUB \$14.05Y	1,642	(0.49)	spread	495.0	498.3		3,3	. (1,63)	(1.38
TRAXX FINSUS \$16.05Y	1,316	(0.52)	spread	517.0	520.1		3.1	(1.60)	(1.34
FTRAXX MIN S15 07Y	1,114	(0.58)	spread	194.6	193.5		(1.1)	0.62	0.33
ITRAXX MN S06 10Y	100	(0.04)	spread	214.6	222.4		7.8	(0.31)	(0.29
ITRAXX FINSUB \$17 05Y	75	(0.03)	somad	495.0	495.7		0.7	(0,02)	(0.01
ITRAXX FINSUS \$07.05Y	(117)	0.00	spread	580.0	466.0		(114.0)	(0.10)	(0.10
ITRAXX XQ S17 05Y	(547)	0.19	spread	714.5	715.4	714,5	0.9	0.18	
ITRAXX FINSUB \$15 05Y	(572)	0.19	spread	511.0	510,4		(0.6)	(0.12)	(0.02
ITRAXX FINSUS 908 05Y	(664)	0.04	spread	437.0	429.9		(7.5)	(0.27)	(0.25
ITRAXX FINSEN 517 05Y	(690)	0.29	spread	232.0	293.3		1.3	0.36	0.22
ITRAXX FINSUB \$12.05Y	(976)	0.22	spread	473.5	491.9		8.4	1.87	1.76
ITRAXX FINSUB \$10.05Y	(1,390)	0.21	spread	453.0	458.5		5.5	1.14	1,04
ITRAXX MN S16 10Y	(1,567)	1.25	spread	191.1	188.7	191,1	(2.3)	(2.92)	(2.30
ITRAXX XO S15 05Y	(1,701)		spread	629.5	629.2	629.5	(0.3)	(0.16)	٠.
ITRAXX MN S15 10Y	(2,054)	1.47	spread	195.4	197.4	195.4	2.0	2.95	2.22
ITRAXX FINSUB S09'05Y	(2,129)	0.22	spread	430.0	442.1		12.1	2.69	2.58
ITRAXX MN S15 03Y	(3,534)	0.72	spread	152.6	148.9		(3.7)	(2.61)	(2.26
ITRAXX XO S16 05Y	(6,187)	2.07	spread	682.5	094,3	682.5	1.8	3.63	1,56
ITRAXX MN \$17.05Y	(17,139)	7.86	apread	173.6	173.6	173.6	0,0	0.06	1.
By Family					OnTR 5Y Contra			(26.54) 17.58	
CDX IG	51,076	(36.21)	spread	118.0	117.5	117.3	(0.5)		
CDX HY	(19,792)		price	93.3	93.5	93.5	(4.4)	(46.66)	
ITRAXX MN	39,837	(9,90)	spread	173.6	173.6	173.6	0.0	(0.07)	
ITRAXX XO	(8,435)	2,61	spread	714.5	715.4	714.5	0.9	2.61	
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BANK PROPRIETARY AND/OR TRADE INFORMATION

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DRAFT (5/25/12)

Daily price testing - Tranche

<u> </u>		Fotal Tranche							COB: 2012-05-24
PV Excee				Adj Tranche Priced	CIO Quote		Credit Spread	USD Factored	
Cap (\$	Change (\$ mm)	Change	Quote	(based on Ref Index)	(LON Close)	Price Type	BP Value (\$ mm)	Notional (5 mm)	Product
16	22.95								Series 09 Tranche
(	2.41	(0.9)		(3.4)	(3.4)	upfront+100	(2.54)	16,565	CDX IG S09 10Y 30-100
	(0.22)	0.5		(2.2)	(2.2)	upfront+100	(0.47)	11,121	CDX IG \$09 07Y 30-100
7	4.56	(0.9)		72.7	72.5	upfront+500	(4.61)	2,018	CDX IG S09 10Y 00-03
	1.76	(0.9)		8.2	8.0	upmont+500	(1.85)	775	CDX IG S09 16Y 07-10
	0.18	(0.9)		30:2	29.9	upfront+500	(0.19)	80	CDX IG 509 10Y 63-07
	0.18	0.5		6.2	6.3	upfront+500	0.38	(215)	CDX IG S09 07Y 03-07
	(0,00)	(2.2)		(0.6)	(0.6)	upfront+100	9.00	(280)	CDX IG 509 05Y 30-100
	0.51	0.5		54.2	54.3	upfront+500	1.08	(331)	CDX IG \$69 07Y 00403
	0.12	0,5		(5.9)	(5.9)	upfront+500	0.26	(368)	COX IG 509 07Y 07:10
	(0.35)	(2.2)		(2.5)	(2.5)	upfront+500	0.16	(1,395)	CDX IG 509 05Y 03-07
	0.38	0.5		0.3	0.3	upfront+100	0.81	(1,970)	CDX IG S09 07Y 10-15
(6	(2.60)	(0.9)		11.0	10.8	upfrord+100	2.74	(1.980)	CDX IG S09 10Y 10-15
	(0.05)	(2.2)		(2.9)	(2.9)	upfront+500	0.02	(2.045)	CDX IG \$09 05Y 07-10
(10	(12.75)	(2.2)		16.7	16.5	upfront+500	5.88	(2.719)	CDX IG 809 05Y 00-03
,	(0.04)	(2.2)		(0.5)	(0.6)	upfront+100	0.02	(2,905)	CDX IG 509 05Y 10-15
(4	(2.24)	(0.9)		1.3	1.3	unfront+100	236	(3.800)	CDX (G 509 10Y 15-30
	0.47	0.5		(1.6)	(1.6)	upfront+100	1.01	(5.965)	CDX IG 509 07Y 15-30
	(0.15)	(2.2)		(0.5)	(0.6)	unfront+100	0.07	(12.215)	CDX IG S09 05Y 15-30
2	24.64	(3.5)		70.4	70.0	spread	(7,06)	20.773	TTRAXX MN S09 10Y 22-100
	0.39	(0.2)		32.2	33.0	Spenge	(1.82)	14,249	ITRAXX MN S09 07Y 22-100
	0.07	(0.4)		96	10.0	spread	(0.15)	8,933	ITRAXX MN S09 05Y 22-100
	4.16	(3.5)		73.9	73.7	upfront+500	(1.19)	1.422	TRAXX MIN 509 10Y 00-03
	2.70	(3.5)		31.1	30.8	upfront+300	(0.77)	478	TRAXX MN 509 10Y 06-03
	0.04	(0.4)		(2.4)	(2.4)	upfront+300	(0.09)	428	TRAXX MN S09 05Y 05-09
		(0.4)		58.0	61.0	spread	(0.04)	352	ITRAXX MN S09 (25Y 09-12
	1.37	(3.5)		614.8	619.5	spread	(0.39)	296	TRAXX MN S09 10Y 09-12
	0.04	(0.2)		409.4	418.0	spread	(D.19)	226	TRAXX MN S09 07Y 09-12
		(3.5)		307.8	308.5	spread	(0.16)	195	(TRAXX MN S09 10Y 12-22
		(3.5)		42.1	41.8	upfront+500	(0.70)	6	(TRAXX MN S09 10Y 03-06

BANK PROPRIETARY AND/OR TRADE INFORMATION

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Daily price testing (cont'd) - Tranche

Product Notional  Series 09 Tranche ITRAOX MN S08 07Y 05-09 ITRAOX MN S08 06Y 12-22 ITRAOX MN S09 06Y 30-06 ITRAOX MN S09 07Y 30-06 ITRAOX MN S09 07Y 12-22 ITRAOX MN S09 07Y 10-03	Factored Cred (S.mm) 8P Value (31) (157) (201) (453) (596) (843) (3.712) 3.744 3.051 2.852 2.063 1.462 1.462 1.462	(0.05) (0.11) (0.11) (0.11) (0.12) (0.11) (0.12) (0.38) (0.06) (0.07) (0.11) (0.11) (0.12) (0.38)	Price Type  upftor#4500 spread upftor#500 upftor#500 upftor#500 upftor#500 upftor#500 upftor#500 price price price price price price	CIO Quote (LON Close) 12.6 33.8 22.7 1.4 189.0 64.5 40.9 105.2 102.9 104.9 91.6 111.0	Adj Transhe Priced (based on Rel Index) 12.4 32.2 22.4 1.1 1.85.5 64.3 40.4 105.2 102.9 104.9 92.3	fridependent li Quote		MarkiT PV 6 Charge (8 mm)  22.95 (0.00) (0.01) (0.07) (0.07) (0.05) (0.21) (2.76) (0.19) (0.19) (0.19) (0.06) (0.434)	Cap (\$ m 16.1
Series 09 Tranche ITRAXX M SOS OTY 06-09 ITRAXX M SOS OTY 06-09 ITRAXX M SOS OTY 06-09 ITRAXX M SOS OTY 06-06 ITRAXX M SOS OTY 10-06 ITRAXX M SOS OTY 10-02 ITRAXX M SOS OTY 10-03 ITRAXX M SOS OTY 10-03 ITRAXX M SOS OTY 10-03 Other Tranche CDX HY SOS OS OT 06-03 CDX HY SOS OS TA 5-100 CDX HY SOS OS TA 5-100 CDX HY SOS OTY 10-15 CDX HY SOS OTY 10-16 CDX HY SOS OTY 10-16 CDX HY SOS OTY 10-16 CDX HY SOS OTY 10-16 CDX HY SOS OTY 10-16 CDX HY SOS OTY 10-16 CDX HY SOS OTY 10-16 CDX HY SOS OTY 10-16 CDX HY SOS OTY 10-16 CDX HY SOS OTY 10-16 CDX HY SOS OTY 10-16 CDX HY SOS OTY 10-16 CDX HY SOS OTY 10-16 CDX HY SOS OTY 10-16 CDX HY SOS OTY 10-16 CDX HY SOS OTY 10-16 CDX HY SOS OTY 10-16 CDX HY SOS OTY 10-16 CDX HY SOS OTY 10-16 CDX HY SOS OTY 10-16 CDX HY SOS OTY 10-16 CDX HY SOS OTY 10-16 CDX HY SOS OTY 10-16	(31) (157) (201) (453) (506) (843) (3.712) 3.744 3.061 2.852 2.063 1.452	0.00 0.01 0.31 0.38 0.26 0.98 6.29 (0.05) (0.01) (0.11) (1.22) (0.19)	upitoni+300 spread upfroni+500 upfroni+500 spread upfroni+500 upfroni+500 price price price	12.6 33.8 22.7 1.4 188.0 64.5 40.9 105.2 102.9 104.9 91.6	12.4 32.2 22.4 1.1 185.5 64.3 40.4 105.2 102.9 104.9 92.3	Quote	(0.2) (0.4) (0.2) (0.4) (0.2) (0.2) (0.4) 3.6 (0.7)	72.95 (0.00) (0.01) (0.07) (0.07) (0.07) (0.07) (0.08) (0.21) (2.78) (0.19) (0.19) (0.08)	(0.
THANO, MA SER OFF 16-09  THANO, MA SER OFF 16-02  THANO, MA SER OFF 16-02  THANO, MA SER OFF 16-06  THANO, MA SER OFF 16-06  THANO, MA SER OFF 16-06  THANO, MA SER OFF 16-06  THANO, MA SER OFF 16-06  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK HT SER OFF 16-10  COCK	(157) (201) (453) (506) (843) (3.712) 3.744 3.061 2.852 2.063 1.452 1.360	0.01 0.31 0.38 0.26 0.98 6.29 (0.06) (0.01) (0.11) (1.22) (0.19)	spread upfront+500 upfront+500 spread upfront+500 upfront+500 upfront+500 price price price price price	33.8 22.7 1.4 189.0 64.5 40.9 105.2 102.9 104.9 91.6	32.2 22.4 1.1 185.5 64.3 40.4 105.2 102.9 104.9 9.83.3		(0.4) (0.2) (0.4) (0.2) (0.2) (0.4) 3.6 (0.7)	(0.00) (0.01) (0.07) (0.17) (0.06) (0.21) (2.76) (19.13) (0.19) (0.19)	(O.
ITRACK MAS 500 001 10:22  ITRACK MAS 500 001 00:06  ITRACK MAS 500 001 00:06  ITRACK MAS 500 001 00:06  ITRACK MAS 500 001 00:00  ITRACK MAS 500 001 00:00  ITRACK MAS 500 001 00:00  ITRACK MAS 500 001 00:00  ITRACK MAS 500 001 00:00  ITRACK MAS 500 001 00:00  ITRACK MAS 500 001 00:00  ITRACK MAS 500 001 00:00  ITRACK MAS 500 001 33:100  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001  ICRACK MAS 500 001	(157) (201) (453) (506) (843) (3.712) 3.744 3.061 2.852 2.063 1.452 1.360	0.01 0.31 0.38 0.26 0.98 6.29 (0.06) (0.01) (0.11) (1.22) (0.19)	spread upfront+500 upfront+500 spread upfront+500 upfront+500 upfront+500 price price price price price	33.8 22.7 1.4 189.0 64.5 40.9 105.2 102.9 104.9 91.6	32.2 22.4 1.1 185.5 64.3 40.4 105.2 102.9 104.9 9.83.3		(0.4) (0.2) (0.4) (0.2) (0.2) (0.4) 3.6 (0.7)	(0.01) (0.07) (0.17) (0.05) (0.21) (2.76) (0.19) (0.19) 0.01 (0.06)	(0.
ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV TO USE  ITRACK WHI SED DIV T	(201) (453) (508) (843) (3.712) 3.744 3.061 2.852 2.063 1.452 1.360	0.31 0.38 0.26 0.98 6.29 (0.06) (0.01) (0.11) (1.22) (0.19)	upfront+500 upfront+500 spread upfront+500 upfront+500 price price price	22.7 1.4 189.0 64.5 40.9 105.2 102.9 104.9 91.6	22.4 1.1 185.5 64.3 40.4 105.2 102.9 104.9 9.3.3		(0.2) (0.4) (0.2) (0.2) (0.4) 3.6 (0.7) 0.6	(0.07) (0.17) (0.06) (0.21) (2.76) (19.13) (0.19) 0.01 (0.06)	(0.
TIRADON MA 500 00° CO.00  TIRADON MA 500 00° TO-00  CDX H° 501 00° 135-100  CDX H° 501 00° 135-100  CDX H° 501 00° 15-50  CDX H° 501 00° 15-50  CDX H° 501 00° 15-50  CDX H° 501 00° 15-50  CDX H° 501 00° 15-50  CDX H° 501 00° 15-50  CDX H° 501 00° 15-50  CDX H° 501 00° 15-50  CDX H° 501 00° 15-50  CDX H° 501 00° 15-50  CDX H° 501 00° 15-50  CDX H° 501 00° 15-50  CDX H° 501 00° 15-50  CDX H° 501 00° 15-55	(453) (506) (843) (3.712) 3.744 3.061 2.852 2.063 1.452 1.360	0.38 0.26 0.98 6.29 (0.06) (0.01) (0.11) (1.22) (0.19)	upfrent+500 spread upfrent+500 upfrent+500 price price price price	1.4 189.0 64.5 40.9 105.2 102.9 104.9 91.6	1.1 185.5 64.3 40.4 105.2 102.9 104.9 92.3		(0.4) (0.2) (0.2) (0.4) 3.6 (0.7) 0.6	(0.17) (0.06) (0.21) (2.76) (19.13) (0.19) 0.01 (0.06)	(O) 81)
ITRACK MIS 930 077 10:22  ITRACK MIS 930 077 10:28  ITRACK MIS 930 077 10:38  ITRACK MIS 930 077 10:48  Other Tranche  CDX HY 530 097 35:10  CDX HY 530 097 35:10  CDX HY 530 097 15:10  CDX HY 530 097 15:50  CDX HY 530 097 15:50  CDX HY 530 097 15:50  CDX HY 530 097 15:50  CDX HY 530 097 15:55  CDX HY 530 097 15:55  CDX HY 530 097 15:55  CDX HY 530 097 25:55	(506) (843) (3.712) 3.744 3.061 2.852 2.063 1,452 1,360	0.26 0.98 6.29 (0.06) (0.01) (0.11) (1.22) (0.19)	spread upfront+500 upfront+500  price price price price price price	189.0 64.5 40.9 105.2 102.9 104.9 91.6	185.5 64.3 40.4 105.2 102.9 104.9 92.3		(0.2) (0.2) (0.4) 3.6 (0.7) 0.6	(0.06) (0.21) (2.76) (19.13) (0.19) 0.01 (0.06)	(O) 81)
ITRACK MN 500 077 DG 03  ITRACK MN 500 077 DG 03  Other Tranche  CDX HY 510 067 35-100  CDX HY 510 067 35-100  CDX HY 510 067 35-100  CDX HY 510 067 35-100  CDX HY 510 077 TG 15  CDX HY 510 077 TG 15  CDX HY 510 077 TG 15  CDX HY 510 077 TG 15  CDX HY 510 077 TG 15  CDX HY 510 077 TG 15  CDX HY 510 077 TG 15  CDX HY 510 077 TG 15  CDX HY 510 077 TG 35  CDX HY 510 077 TG 35  CDX HY 510 077 TG 35	(843) (3.712) 3.744 3.061 2.852 2.063 1.452 1,360	(0.98 6.29 (0.06) (0.01) (0.11) (1.22) (0.19)	upfront+500 upfront+500 price price price price	64.5 40.9 105.2 102.9 104.9 91.6	64.3 40.4 105.2 102.9 104.9 92.3		(0.2) (0.4) 3.6 (0.7) 0.6	(0.21) (2.75) (19.13) (0.19) 0.01 (0.06)	(O) 81)
DTRACK WN S09 00Y 00-09  DTRACK TRANSE CDX HY S10 69Y 35-100 CDX HY S10 69Y 35-100 CDX HY S10 69Y 15-100 CDX HY S10 69Y 15-10 CDX HY S10 69Y 15-50 CDX HY S10 69Y 15-50 CDX HY S10 69Y 15-55 CDX HY S10 69Y 15-55 CDX HY S10 69Y 15-55 CDX HY S10 69Y 15-55 CDX HY S10 69Y 15-55 CDX HY S10 69Y 15-55 CDX HY S10 69Y 15-55 CDX HY S10 69Y 15-55	(3.712) 3.744 3.061 2.852 2.063 1.452 1,360	(0.06) (0.01) (0.11) (1.22) (0.19)	upfront+500  price price price price price	105,2 102,9 104,9 91,6	40.4 105.2 102.9 104.9 92.3		(0.4) 3.6 (0.7) 0.6	(2.75) (19.13) (0.19) 0.01 (0.06)	(O) 81)
Other Tranche CDX HY \$10.08Y 35.100 CDX HY \$10.08Y 35.100 CDX HY \$10.08Y 15.100 CDX HY \$10.08Y 15.100 CDX HY \$10.08Y 15.26 CDX HY \$10.08Y 15.26 CDX HY \$10.08Y 15.26 CDX HY \$10.08Y 15.26 CDX HY \$10.08Y 15.26 CDX HY \$10.08Y 15.26 CDX HY \$20.08Y 25.26	3,744 3,061 2,852 2,063 1,452 1,360	(0.06) (0.01) (0.11) (1.22) (0.19)	price price price price	105,2 102,9 104,9 91,6	105.2 102.9 104.9 92.3		3.6 (0.7) 0.6	(19.13) (0.19) 0.01 (0.06)	(15
CDX HY \$10 08Y 35-100 CDX HY \$50 06Y 55-100 CDX HY \$50 06Y 55-100 CDX HX \$10 05Y 15-100 CDX HX \$10 05Y 15-55 CDX HX \$10 05Y 35-100 CDX HX \$10 05Y 35-100 CDX HX \$10 05Y 35-100 CDX HX \$10 05Y 35-100 CDX HX \$10 05Y 35-55 CDX HY \$20 06Y 25-55	3,061 2,852 2,063 1,452 1,360	(0.01) (0.11) (1.22) (0.19)	price price	102.9 104.9 91.6	102.9 104.9 92.3		(0.7) 0.6	(0.19) 0.01 (0.06)	
CDX HY \$10 G8Y 38-100 CDX HY \$506 G8Y 38-100 CDX HOY \$506 G8Y 38-100 CDX HOY \$10 G8Y 15-100 CDX HY \$10 G8Y 15-55 CDX HY \$10 G8Y 38-100 CDX HY \$10 G9Y 38-100 CDX HY \$10 G9Y 38-100 CDX HY \$10 G9Y 38-100 CDX HY \$10 G8Y 38-56 CDX HY \$20 G8Y 28-36 CDX HY \$20 G8Y 28-36	3,061 2,852 2,063 1,452 1,360	(0.01) (0.11) (1.22) (0.19)	price price	102.9 104.9 91.6	102.9 104.9 92.3		(0.7) 0.6	0.01 (0.06)	
CDX, HY S08 CSY 35-100 CDX.LCDX 310 DSY 15-100 CDX.HY 310 GSY 15-25 CDX.HY 310 GSY 15-25 CDX.HY 310 DSY 16-10 CDX.HY 310 DSY 16-15 CDX.HY 310 DSY 16-25 CDX.HY 300 DSY 25-35 CDX.HY 300 DSY 25-35 CDX.HY 300 DSY 25-35	3,061 2,852 2,063 1,452 1,360	(0.01) (0.11) (1.22) (0.19)	price price	104.9 91.6	104.9 92,3		0.6	(0.06)	G
CDX.LCDX. \$10 05Y 15-100 CDX.HY \$10 05Y 15-25 CDX.HY \$10 07Y 35-100 CDX.HY \$10 07Y 10-15 CDX.HY \$10 07Y 10-15 CDX.HY \$10 05Y 15-25 CDX.HY \$30 05Y 25-35 CDX.HY \$30 05Y 25-35	2,852 2,063 1,452 1,360	(0.11) (1.22) (0.19)	price	91.6	92,3		0.6		a
CDX HY S10 GSY 15-25 CDX HY S10 07Y 35-160 CDX HY S10 07Y 10-15 CDX HY S11 05Y 15-25 CDX HY S30 GSY 25-35 CDX HY S08 05Y 25-35	2,063 1,452 1,360	(1.22) (0.19)	price	91.6			3.6	(4.34)	G
COX.HY \$10 07Y 35-100 COX.HY \$10 07Y 10-15 CDX.HY \$11 06Y 15-25 CDX.HY \$29 05Y 25-35 CDX.HY \$08 05Y 25-35	1,452 1,360	(D.19)							
COX HY \$10 07Y 10-15 CDX HY \$11 06Y 15-25 CDX HY \$09 05Y 25-35 CDX HY \$08 06Y 25-35	1,360				111.1		(4.6)	0.89	
CDX HY S11 05Y 15-25 CDX HY S09 05Y 25-35 CDX HY S08 05Y 25-35			price	7.5	7.8		(4.5)	1.75	
CDX HY SQ9 05Y 25-35 CDX HY S08 05Y 25-35		(0.78)	price	78.4	77.1		3.6	(2,79)	(0
CDX HY S08 05Y 25-35	875	(0.01)	price	102.8	102.8		(0.7)	0.01	
	663	(0.00)	price	100.4	100.4		(81.7)	0.03	
	655	(0.07)	price	103.9	104.0		3,6	(0.25)	
CDX HY \$11-05Y 35-100	508	(0.02)	price	107.1	107.1		3.5	(0.06)	
CDX HY S11 05Y 10-15	405	(0.32)	prion	13.6	12.9		3.6	(0.56)	
CDX HY \$10.07Y 15-25	385	(0.39)	price	56.7	57.1		(4.6)	1.78	
CDX HY S08 67Y 25-35	282	(0.08)	price	104.3	104.2		(14.6)	1,18	
CDX HY S10 07Y 25-35	265	(0.17)	price	95.1	96.4		(4.6)	0.76	
CDX HY \$11 05Y 25-35	250	(0.05)	price	104.3	103.9		3.6	(0.19)	
CDX HY S10 05Y 10-15	232	(0.15)	price	19,9	20.7		3.6	(0.53)	
CDX HY S08 07Y 15-25	225	(0.19)	price	84.5	84.5		(14.6)	2.74	
and it is a		(0.10)	proc	04.0	01.0		()		

BANK PROPRIETARY AND/OR TRADE INFORMATION

DRAFT (5/25/12)

# Daily price testing (cont'd) - Tranche

COB: 2012-05-24							Total Tranche	3.81	8.0
	USD Factored	Credit Spread		CIO Quote	Adj Tranche Priced	Independent	Index Spread	Mark/T PV	PV Exceeding
Product	Notional (\$ mm)	BP Value (\$ mm)	Price Type	(LON Close)	(based on Ref Index)	Quote	Change	Change (\$ mm)	Coop (\$ mi
Other Tranche								(19.13)	(15.3
CDX IG 507 07Y 07-10	110	(0.04)	upfront+500	(4.1)	(4.8)		18 1	(0.72)	4,000
CDX LCDX S10 05Y 12-15	110	(0.03)	price	102.9	102.3		0.6	(0.02)	
CDX HY S08 07Y 35-100	109	(0.01)	price	108.9	108.9		(14.5)	0.11	
CDX IG \$15.05Y 15-100	100	(0.01)	upfront+25	D.2	0.2		0.3	(0.00)	
COX HY S11 07Y 35-100	96	(0.02)	price	110.4	110.5		(2.5)	0.04	
CDX HY S08 07Y 10-15	47	(0.04)	price	32.1	32,1		(14.5)	0,60	
CDX HY S11 07Y 10-15	17	(0.00)	price	6.4	6.6		(2.6)	0.01	
CDX HY 807 07Y 15-25		(0.00)	price	92.5	96.0		29.1	(0.19)	
CDX HY S07 07Y 35-100		(0.00)	price	106.6	106.8		29.1	(0.00)	
CDX IG S97 97Y 15-30		0.00	upfront+100	(1.2)	(1.3)		18.1	0.00	
CDX IG S07 07Y 30-130		(0.00)	upfront+100	(1.3)	(1.3)		18.1	(0.01)	
CDX (G S08 07Y 03-07		0.00	uofront+500	6.1	11.6		(27.7)	(0.01)	
CDX IG S08 07Y 07-10	-	0.00	upfront+500	(5.4)	(3.4)		(27.7)	(0.06)	
CDX IG S08 07Y 10-15	-	(0.00)	upfront+100	(0.4)	0.4)		(27.7)	0.01	
CDX IG S08 D7Y 30-100		(0.00)	upfront+100	(1.7)	(1,6)		(27.7)	0,01	
CDX IG S10 05Y 03-07	-	. 0.00	upfront+500	(2,5)	(2.4)		0.8	0.00	-
CDX IG 610 (5Y 07-10		(0,00)	upfront+500	(4.9)	(4.9)		0.8	(0.00)	
CDX HY S11 07Y 15-25	(30)	0.03	price	49.8	50.4		(2,6)	(0.06)	
CDX HY S09 05Y 10-15	(71)	0.02	price	31,0	31.0		(0.7)	(0.04)	
CDX HY S08 05Y 35-100	(94)	0.00	price	100.4	100.4		(81,7)	(0.00)	-
CDX IG S15 05Y 00-03	(195)	0.66	upfront+500	35.1	34.7		0.3	0.20	
CDX IG S08 07Y 15-30	(375)	0.04	upfront+100	(1.8)	(1.5)		(27.7)	(1,00)	-
COX HY S08 05Y 10-15	(812)	0.18	Duce.	98.5	94.2		(81.7)		(12.
CDX HY S08 05Y 15-25	(1.055)	0.16	price	99.4	99.4		(0.7)	(0,23)	(12.
CDX HY S08 05Y 15-25	(1.410)	0.00	price	100.3	100.2		(81.7)	(0.55)	
ITRAXX MN S15 07Y 22-100	2.516	(0.84)	spread	63.5	63.1		(1.1)	0.90	
ITRAXX MN \$15.05Y 22-100	2,453	(0.49)		44.5	44.1		(0.6)	0.31	
ITRAXX MN 515 03Y 22-100	2,433	(0.49)	spread scread	15.5	15.5		(3.7)	0.07	
(TRAXX MN S06 10Y 03-06	189	(0.02)	upfront+500	41.5	40.4		7.8	(1.79)	
FTRAXX MIN SUB 10Y 03-05	189	(U.23) (0.11)	upfront+300	41.5 28.9	40.4 27.7		7.8	(0.87)	
FI FAMAN MAN GUID TUT DE-USI	20	(0.11)	Opriorit+300	26.9	21.1		7.8	(0.87)	

BANK PROPRIETARY AND/OR TRADE INFORMATION

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Daily price testing (cont'd) - Tranche

008; 2012-05-24							Total Tranche		0.81
	USD Factored	Credit Spread		CIO Quote	Adj Tranche Priced				PV Exceeding
Product	National (\$ mm)	BP Value (\$ mm)	Price Type	(i,ON Close)	(based on Ref Index)	Quote	Change	Change (\$ mm)	Cap (\$ mir
Other Tranche								(19.13)	(15.31
TRAXX MN 815 03Y 03-08	13	(0.02)	upfront+500	9.3	9.2		(3.7)	0.05	
TTRAXX MN S06 10Y 09-12	-	(0.00)	spheed	632.5	595.7		7.8	(0.02)	-
FTRAXX MN S06 10Y 12-22	-	(0.01)	spread	299.5	281.8		7.8	(0.11)	
TRAXX MN S06 10Y 22-100	-	(0.00)	spread	64.8	59.0		7.8	(0.04)	
TRAXX MN S07 10Y 06-09	-	(0.00)	upfront+300	26.5	28.6		5.1	(0.02)	
TRAXX MN S07 10Y 09-12	-	(0.00)	spread	615.0	608.2		5.1	(0,01)	
TRAXX MN S07 10Y 12-22		(0.00)	spread	285.0	283.1		5.1	(0.00)	
TRAXX MN S07 10Y 22-100		0.00	spread	64.3	64.0		5.1	0.00	
TRAXX MN S15 03Y 00-03	(88)	0.15	upfront+500	47.9	47.8		(3.7)	(0.56)	
TRAXX MN S08 10Y 00-03	(131)	0.12	upfrom+500	74.8	73.9		7.8	0.97	
TRAXX MN S15 07Y 03-06	(245)	0.43	upfront+500	34.5	34.6		(1.1)	(0.45)	1.6
TRAXX MN S15 05Y 00-03	(327)	0.42	upfront+500	61.5	61.5		(0.6)	(0.27)	
ITRAXX MN \$15.07Y 00-03	(371)	0.40	upfront+500	68,5	68.6		(5.1)	(0.43)	
By Family				Change du	to the OnTR 5Y	ndex		12.41	
CDXHY	14.226	(3.41)	price	93.3	93.5	93.5	(4.4)	15,14	
CDXIG	(6,987)	5.57	spread	118.0	117.5	117.3	(0.5)	(2,70)	
ITRAXX MN	45,806	(3.86)	spread	173.6	173.6	173.6	0.0	(0.03)	
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BANK PROPRIETARY AND/OR TRADE INFORMATION

# Volume and activity update

	Gross notion	nal (\$mm)	Weekly activ	ity (\$mm)	% of notion	al traded
Series	Untranched	Tranched	Untranched	Tranched	Untranched	Tranched
CDXIG S09	818,852	557,464	31,954	7,851	3,90%	1.41%
Traxx MN S09	616,556	522,199	17,076	12,705	2.77%	2.43%
CDX KS S18	390,008	N/A	221,241	N/A	56.73%	N/A
Traix MN S16	292,720	N/A	7,532	N/A	2.57%	N/A
Traix MN S17	351,346	N/A	197,567	N/A	56.23%	N/A
CDXIG S17	239,782	2,100	19,678	137	8.21%	6.50%
CDXIG S16	178,415	N/A	697	N/A	0.39%	N/A
CDXIG S15	174,828	8,303	866	N/A	0.50%	N/A
CDXHYS17	72,421	650	4,924	N/A	6.80%	N/A
CDXHY \$10	71,049	45,217	722	130	1.02%	0.29%
Traxx XO S16	53,828	N/A	1,110	N/A	1.74%	N/A
iTraxx XO S17	72,023	N/A	47,157	N/A	65.48%	N/A
CDX HY S09	52,839	34,355	673	40	1.27%	0.12%
iTraxx FinSub S17	25.771	N/A	4,904	N/A	19.03%	N/A

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BANK PROPRIETARY AND/OR TRADE INFORMATION

# SYNTHETIC CREDIT DAILY RISK REPORT

May 29, 2012

J.P.Morgan

BANK PROPRIETARY AND/OR TRADE INFORMATION

			Actual vs
	Estim ate	Actual	Estimate
29/05/2012	(\$88,003)		
28/05/2012	\$15,627	\$13,780	(\$1,847)

Total P&L	(\$88,003)
Directional	(\$3,940)
Compression	(\$39,971)
Series 09	\$7,636
On/Off Run Basis	(\$28,842)
Curve/Other	(\$3,213)
Tranche	(\$10,922)
IR .	(\$282)
Other P&L	(\$340)
VCG Adi	(\$8,130)

			Portfolio	Net	Since	% Chg.
	CSW10%	Trading	lengthening	change	30-Apr	30-Api
29May	(202.3)	N/A	N/A	N/A	90.4	(30.9%)
28May	(176.0)	(19.2)	(7.1)	(26.3)	116.6	(39.9%)
30-Apr	(292.6)	227.8	(137.4)	90.4	0.0	

3U-Apr. (292.6)
Note: "Usivi Turk: negarive ingures denote long risk position," Current data reflects prior day close plus current day trades only.

Expected today

	Description	Current	Prior day
Total (CIO - counterparty)	20001170011	\$25	-\$1
Largest counterparty	MS	39	15
Largest instrument	ITRAXX MN S09 10Y 22-100	26	-6

Note: negative/positive collateral position denotes lower/higher valuation relative to counterparty

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Trades

- Sold protection \$315MM CDX.HY.18 5y
- w Sold protection \$250MM CDX,IG.18 5y
- at Bought protection EUR20MM FINSUB.17 5y
- # Bought protection EUR250MM ITX.MN.9 5y 22-100% vs. delta
- Bought protection EUR800MM ITX.MN.17 5y
- Sold protection EUR600MM XO.17.5y

# Summary commentary

- New trades reduced risk in CS01 terms by \$0.064mm
- a P&L \$(88)mm driven by:
- Compression HY vs IG, XO vs Main, (\$40MM)
- On/Off Run Basis, (\$29MM)
- Tranches, tighter spreads in short-dated 0-3%, (\$12MM)

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							DoD Ch	ange		Change	since 4/3	0/12	
		5Y eqv.		Beta Adj.	10%			Beta Adj.	10%	1	Beta Adj.	10%	
(\$mtn)	Notional	OTR Eqv	CS01	CS01	CSW	5yr eqv.	C501	C\$01	CSW	CS01	CS01	CSW	Beta ¹
CDXIG	44,315	58,188	(28.1)	(32.0)	(485)	304	(0.2)	(0.1)	(2.2)	10.5	11.2	21.8	1.00
CDXHY	215	(20,082)	6.9	37.9	407	398	(0.1)	(0.8)	(13.4)	(1.5)	(8.4)	(53.9)	5.50
TRAXX MN	90,800	20,366	(8.4)	(12,6)	(223)	(943)	0.4	0.5	7.7	15.2	22.9	184.6	1.50
ITRAXX XO	(6,092)	(5,702)	2.0	11.0	125	754	(0,3)	(1.4)	(18.6)	(1.2)	(6,3)	(61.6)	5,50
COXLCOX	2,387	250	(0.0)	(0.1)	(0)	79	(0.0)	(0.1)	(0.2)	(0.0)	(0.1)	(0.2)	5.50
TRAXX FINSEN	(435)	(436)	0.2	0.5	5	0	0.0	0.0	(0.1)	0.2	0.6	5.9	3.00
TRAXX FINSUB	(2,831)	353	(0.2)	(0.7)	(11)	(20)	0.0	0.0	0.5	0.4	1.9	13.7	4.50
SOVXWE	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0,0	0.0	0.4	1.00
Direct Single Name	800	524	(0,2)	(1.7)	(20)	(1)	0,0	(0.0)	0.0	(0.2)	(1.7)	(20.4)	7.04
Total	119,157	53,461	(27.9)	2.3	(202)	571	(0.1)	(1.7)	(26.2)	23.4	20.0	90,3	

Total 119,157 53,461 (27.9) 2.3 (202) 571 (0.1) (1 

1 Table shown includes notional and risk factors for both indices and tranches combined 
Note: Positive/Negative notional data denotes long/short risk; Positive/Negative CS01 denotes short/long risk 
Belas are computed off on the run IG (\$18). Dela reflects prior day closs plus new Irades today.

Risk facto	ors¹(cob	(129/12)							
	Underlying	Directionality	Curve	OTR/OFR	HG/HY	MN/XO	EU/US	Correlation (\$	(10% change)
	CS01 (\$mm)	C501 (\$mm)	QS01 (\$mm)	CSD1 (\$mm)	CS01 (\$mm)	CS01 (\$mm)	CS01 (\$mm)	Super Senior	Equity/Mezz
CDXIG	(28.1)	4.0	7.7	(22.7)	**	-	_	(123.9)	115,4
ITRAXXMN	(8.4)	-	5.4	(13.5)		***	(1.5)	(132.5)	(33.2)
CDXHY	6.9	~	(0.4)	0,0	6.9	**		7.5	38.7
ITRAXX XO	2.0			**	**	2.0			
ITRAXX FINSUB	(0.2)		0.3		***	(0.2)			_
ITRAXX FINSEN	0,2	-		-		-	0.2		
CDX LCDX	(0.0)		(0.0)	**	(0.0)	-			
Subtotal	(27.6)	4.D	12.9	(36.2)	6,9	1.8	(1.3)	(248.8)	120.9

Note: Directionality excludes Direct single names

				Spre	ead		Basis to Th	eoretical (b	ps spd
		5/29/12	5/25/12	5/24/12	4/30/12	3/30/12	5/25/12	1w	1 m
CDXIG	S18 5 yr	116.8	117.3	117.5	94.7	91.5	(4.8)	(2.9)	2.7
	89 5yr	84.3	85.2	85.4	68.1	70.8	(7.9)	(1.0)	7.1
	S9 10yr	158.8	159.4	159.7	119.4	113.1	(1.5)	1.9	15.8
CDXHY	S18 5 yr	650.0	664.6	669.7	579.7	578.9	14,3	(49.7)	26,1
Trexx Main	\$17 5yr	170.5	174.5	174.5	140,5	125,0	- 1.7	(5.2)	12.0
	S9 10yr	597.5	715.0	717.5	170.5	151,D	10.1	(15.5)	7.7
Traxx Xover	817 5vr	208.5	211.5	211.5	650.0	813,0	(7.4)	(4.2)	15.2

Source: Market data - J.P. Morgan investment Bank (as of New York close)

² Estimated based on end of day levels, may fluctuate based on end-of-day trading and volatility

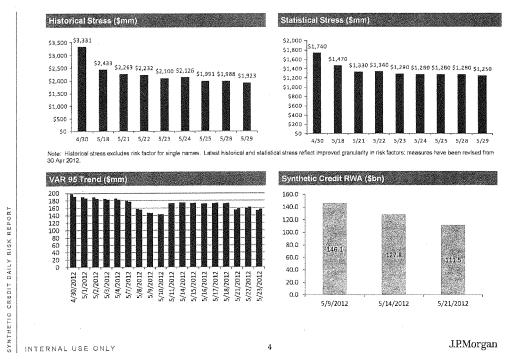
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# Notional overview

I	Notional (\$mm) (cob 8	5/29/12)	Notional (\$mm) (cob 4/30/12)	Change
∞CDX IG vs. HY	Notional IG9 48,460 Other IG 2,155 High Yield (17,554)		Notional  G9	Notional IG 9 (34,000) Other IG 16,655 High Yield 3,055
iTraxx Main vs. Crossover	Notional iTraxx Main 28,287 iTraxx XO (4,859)		Notional     Traxx Main	Notional 
Tranche positions	IG9 (5,940) ( IG95 yr (22,400) (3 IG (360) HY 17,769	Equity Mezz Senior 1,355) (33,020) 28,435 3,570) (18,560) (270) (195) (265) 100 4,291 4,183 9,295 3,210) 440 38,935	Total         Equity         Mezz         Senior           IG9         (5,940)         (1,355)         (33,020)         28,435           IG9 5 yr         (22,400)         (3,570)         (18,560)         (270)           IG         (340)         (195)         (245)         100           HY         17,789         4,291         4,203         9,295           ITraxx         38,395         (3,230)         440         39,185	Total  IG 9 0  IG 9 5 yr 0  IG (20)  HY (20)  ITraixx (230)
Other positions		Short (4,649) (1,686)	Long Short FinSub 3,061 (4,649) LCDX 4,075 (1,688)	Long Short FinSub (670) 0 LCDX 0 0
Memo: IG 9 exposure (by maturity)	Notional   IG 509 05Y (32,722)   IG 509 07Y 34,193   IG 509 10Y 46,989   IG9 48,460		Notional	Notional TG S09 05Y 0 TG S09 07Y 0 TG S09 10Y (34,000) TG9 (34,000)
Note: Positive/Nega	tive notional data denotes long/ SE ONLY	short risk	3	J.P.Morgan

2398



4/30/12 Historical worst

single day

\$3,272mm

89mm

2,925mm

437mm

39mm

1,085mm

505mm

NA

5/29/12

single day

\$287mm

7mm

2,059mm

159mm

11mm

--mm

505mm

NΑ

# If high yield positions in US outperform investment grade

Description of when position loses money

M Pricing to equilibrium. In addition to below risk factors, some indices will lose value as they move from richness to falmess.

Summary of Synthetic Credit Book - historical stress

Synthetic credit book exposed to risk factors - Each factor represents a directional exposure # In the short-to-medium term, these exposures can be partially mitigated - But not eliminated

6. Illiquidity of older Indices / (On-the-Run vs. Off-the-Run) 7, "Super senior" debt vs. "equity"

# If there is an increase in the correlation implied between defaults among names within the tranches If credit events happen to companies for which we have

(Risk on individual names) "sold protection" Portfolio worst day Sum of worst case Note: Stress results reflect improved granularity in risk factors; measures have been revised from 30 Apr 2012.

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\$1,923mm \$3,331mm \$3,027mm \$8,352mm J.P.Morgan

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Risk Factor

(Curve)

(Directionality)

1. Credit spread widening

3. High Yield vs. Investment Grade

2. Maturity mismatch

4. XOver vs. Itraxx Main

5. Europe vs US

positions (Tranches)

8. Default risk

Tranches

- Pricing to equilibrium. In addition to below risk factors, some indices will lose value as they move from richness to fairness
- Synthetic credit book exposed to risk factors Each factor represents a directional exposure
- m In the short-to-medium term, these exposures can be partially mitigated But not eliminated

lote: Stress results reflect Improved granularity in d	sk factors; measures have been revised from 30 Apr 2012. <b>Sum of worst case</b> 5	\$2,801mm J.	\$4,291mm P.Morgan
	Portfolio worst day	\$1,250mm	\$1,740mm
8. Default risk (Risk on individual names)	If credit events happen to companies for which we have "sold protection"	291mm	291mm
7. "Super senior" debt vs. "equity" positions (Tranches)	If there is an increase in the correlation implied between defaults among names within the tranches	500mm	500mm
6. Illiquidity of older Indices / Tranches (On-the-Run vs. Off-the-Run)	If credit spreads of the older index (the "off-the-run" index) widen relative to more-recently issued indices (the more "on the run" indices)	510mm	810mm
5. Europe vs US	If positions in Europe outperform positions in US relative to their portfolio weighting	50mm	400mm
4, XOver vs. Itraxx Main	If high yield positions in Europe outperform investment grade positions relative to their portfolio weighting	200mm	300mm
3. High Yield vs. Investment Grade	If high yield positions in US outperform investment grade positions relative to their portfolio weighting	930mm	1,120mm
2. Maturity mismatch (Curve)	# If credit spreads of long-maturity positions get wider relative to short-maturity positions	150mm	160mm
Credit spread widening (Directionality)	■ If credit spreads widen across markets	\$170mm	\$710mm
Risk Factor	Description of when position loses money	5/29/12 95% le loss potential ¹	4/30/12 95%ile loss potential ¹

### Synthetic Credit risk factors details

Sensitivity analysis		110
Scenario	Sigma L	.oss (\$mm)
90.0% percentile	1.28	1,030
95.0% percentile	1.64	1,250
97.5% percentile	1.96	1,440
99.9% percentile	3,09	2,170
Downside Case A ¹	N/A	2,801
Downside Case B ²	N/A	4,635

### Assumptions behind analysis

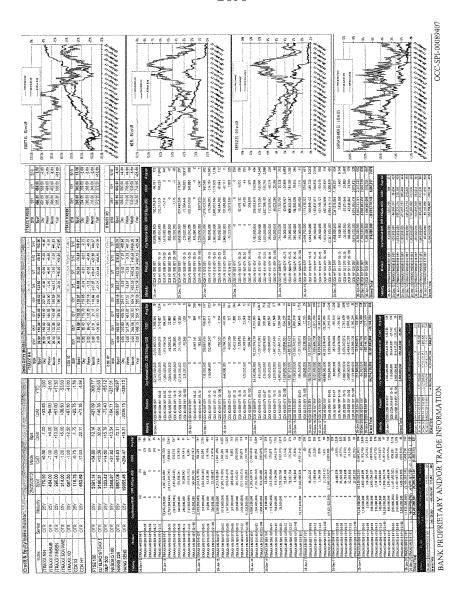
- m Credit spread widening (Directionality) Net directional loss estimate assumes correlation based on 1yr data
- 38 Maturity mismatch (Curve)
- M Volatility measured as relative movement of longer maturity spread vs. shorter maturity spread adjusted for overall drift
- m Combined across asset classes assuming zero correlation
- High Yield vs. Investment Grade
- Volatility based on relative spread movement netted for overall directionality
- Assumes zero correlation between these differences for US and Europe
- M Illiquidity of older Indices/Tranches (On-the-run/Off-the run risk)
- Series 9 is assumed as the off-the-run position
- Risks are combined assuming zero correlation
- "Super senior" debt vs. "equity" positions (Tranches) Risk factor based on extreme movements of correlation as seen during the credit crisis
- B Default risk (Risk on individual names) Exposure based on comprehensive simulation of default risk using capital model
- Diversified sum All above risk measures combined assuming zero correlation
- ¹ Diversified sum of 95.0% percentile; ² Diversified sum of 99.9% percentile

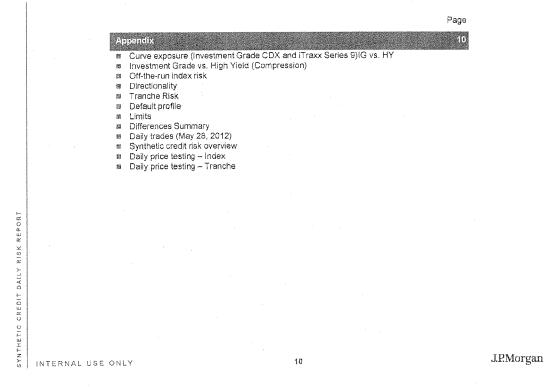
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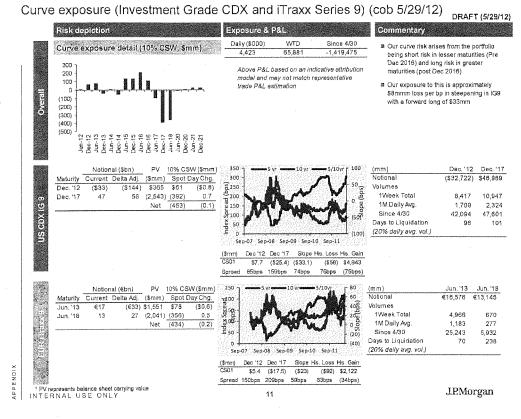
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	÷	ņe.				client	bid bid	none																												EV COBUNC	00089407
	Long credit risk -27,8mm GSG1 (-0,1mm); short +2,3mm bets-adj GSG1 (- 1,7mm); -202mm 10%GSW (-26mm)	Credit Chisis / Large Flattener Sell-off \$-1.82bn (-162mm) Indices 1-2% tinhler in led by US HY 8 XO compressing and off-the	,			ient. Option grants	chon and to buy \$1 as 48 bos above the	n is an American o	and may be exercised as anyming lightly expery at 17 a.m. Exit, 28 came, 2012. (2) Tables below do not include sligte name positions		Section 10	177,980,265	20,330,144	1738.117	-1.075.782	789,452	10,181,111	24,000,711	5,828,444	1,100,000	13,706,100	-22,034,266	16,680,504	798 (80) #	1,106,285	-13,988,725	-2.852.668	196,561	-822.768	62,872	-00.066	-62,452,447	13,737,212	448,348		ur.	OCC-SKI
	; short +2.3r	3. S. XO comp		10%CSW	iss -2.33bn	8.5Y sold to ol	GDX IGB will I	relse. The aptic	II ES1, 28 SID		THE PARTY CONTRACTOR	69,057,979	407.00	99999	578.267	-83,194	59,647,774	4 874 492	CID HIS Y	-862, 80	219'209'	-2.908.262	34,655,462	-23:23:002	-2,719,827	2,676,380	51,849	13.779	-87.350	20.040	-20,798	55,478,005	417,081	44.818.802		JP.Morgan	
:X:	21 (-0.1mm) -25mm)	Sell-off S- US HY H	regions	11; -503mm	scenario It	9.30yve. IG.	17bn of CDX Igreed on the	e time of exe	xpuy at 11a. The positions		The second second	10,000,311	3,192,121	.128,555	55,730	13.590	7.716,3801	3,676,760	- T. BELTE	280,345	-218,2K-	446,864	2,161,838	1,152,779	431.529	217,353	294.433	11.081	.22.30	900	143,035	10,000	489,241	0 38C.W.		ij	
COB 29-Ma	-27,9mm CSC m 10%CSW (-	arge Flattener	lleeper across	4 AF5): -30,9mm CS0	sell-off stress	he option on IG.3	n, to sell JPM S1 from JPM. The s	CDX IQ18 at the	anym <b>ratyko</b> e nclude aliigie na		Manage Services	278,510,833	103,496,501	13.490.698	-23,405,094	1807.881	235,450,753	-600,376,454	54,300,740	26,537,998	05,639,641	-36.523.246	412,674,219	130,748,880	-22,581,802	-13.980,552	428 FR 439	54.196	1,836,178	374,401	-1,202,904	143,527,798	5.242,043	455.547.862			
Commentary - COB 29-May: Synthetic Credit:	Long credit risk -27,9mm GS01 (-0.1r 1,7mm): -202mm 10%GSW (-26mm)	Credit Crisis / Large Fattener Self-off \$-1.82bn (-162mm) indices 1-2% tobler in led by US HY, HY & XO compress	run Sü oulves steeper across regions	Setured Credit (M.) M & AFS): Long credit risk -30,9mm CSD1; -503mm 10%CSW	Large Flattener sell-off stress scenario loss -2.33bn	c does not reflect	it, but not abligation 718 5Y protection	the spread on the	ly de exercisea al les below do not i			-285,522,531	101,706,604	1338.50	-14427 050	825,251	-222/50,375	506,436,824	13,352,639	34.257.530	35,400,310	50.056,360	408 (77 30)	729,598,102	27,619,722	73,446,280	413 707 R45	90(7)-	1,813,796	3030	-1705.000	124.868,281	10,798,351	781,504,548		Hardware Andrew	
		• •		masc.		() RE	12.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	ievel of	and me	6	9,571	23,557,856,500	03,408,476,000	0	0.0	0	26,779,370,508	21,396,386,000	10	0	27	20	17,355,010,040	1,317,150,000	0.0	006'000'02-		0000001157	231,250,000	00	D	2,930,000,000		C01(000)155			
Equity Oeth. Equity Carden a Equity Vega						71/8077	77.692			5	77 892	1,398,810,000	2342,540,000			0	3,256,080,500	26,750,000		D 41			410,000,000	167,500,000	6 0	00		1	11,500,000		0	1,845,000,000	-20,000,000	O CONTRACTOR		<b>載ま⁴</b>	
					-	/pi/dea	761,883		-	ō	883	1,121,308,030	30,300,000	0	00	0	1,105,309,030	3,077,556,096	0		0 0		256,050,080		00	00		1	11,000,000	00	0	000,000,000	-20,000,000	0 100	h		
HDT STUINT -41,302	-11,000	146.243	2,234	000	- 25 1	5 6	846,392 76	-5,782		-5,782	840,610 76	-4,446,309,499	100,818.001,cc	-520 908,000	715 000,000 895 300,000	-420,000,000	15,657,588,591	-34,941 UBB,505		-1,320,309,060	-8,555,000,000 01,000,000,000	26.435,000,530	14,064,750,005	7,507,160,090	4.290.500.000	2,193,000,000	9,295,000,000	51,350,000	1,738 750,000	110.000,000	3,955,000,000	200000000000000000000000000000000000000	-2,238,000,000	0 10 10 10	D.Change (Series)		
<b>88</b>	-208,468		0	00	6 1	5 6	8,831,510	6		0	361 510	6,367,308,496	1 210 661 600	-670,000,000	715,000,000	420,000,000	64,461,598,591			-1.25,000,000	-6,855,035,600	28,435,000,000	44,314,746,605	6,964,160,000	6,236,500,660	1,193,040,000 2,990,000,000	255,000,000	40,350,000	0,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,0000	000,000,014	000'000'596'5	4 850,350,000	3,258,000,000	0 100 100 7865	8		
09,800,941 6		383,834,701	86,302,174	0 0	341,585,791	5 6	558,848,792	93,855		33,655	33,47	280,738	615466.387	151,242,347	500.517		7,041,077,285		L	_			3150,480,144	i			129,457,502	36.36	0 833,961			L	-04,522,440	55,574,662	(Marie		
8						5 6			ü	704 6,6	148,361,052 565,333,447	36,076 1,990,	210,178,620 915, C46,146,607 674		-13,948,748 -164, -6,253,696 -11,3		383,834,701 -7,049,				23,446,879 460,			-M.982,133 1,078,	65,307,918 -105,		77,013 129 Market 3489	1	6,316,624 16.		7.746 624 -17	Γ	68,792,174 -54, 6,629,918 -42,	F	9 / 190		
3,059,356,68				40,283,746	-117,866,838		2	70,006,419	, vi	7	۲	20,019 45,000	472 (3) 564 - 210 (		105,164,678 ·13,9 -101,07,424 ·6.2		1,192,424,361 313,8					200 622,530 de		532.540.565 -44.8	60.718 65,0		124 744 63 6	1	Ė		4.508,335 -2.7	1	24.898,446 6.E	- 1	Ш		ZOZ
1,851,184,784	2,204,170	-1, 192, 424,304	-47,114,812	24,698,446	- 902, 128, 116		1,097,842,001	49,400,143	2,303,303,345	2,519,961,790	3,617,803,79	125	101,706,604 472,1		(A) 1888 (C)	821,251 8.1	6305 - 1,102,0	**	1						1322 -824		43,207,915 -71,	1	1,813,766 93		1.795.660 -8	1	5,196,255 -47.	1.	107,277,150		OKMA
408,787,017	308,791		10,798,351	5,186,220	20.475,674	5-6	-2022/9,672	10,828,287	500'030'00	.503,044,100 -2,519,961,790	705 303 771		0 101.7 200 100 100 100 100 100 100 100 100 100		1258,275 -20,3	724,657 8	16.214,562 272,H6,US	0.508.4			43,949 55,4		735,64E -484,8	0 129,5	749,471 -23,5	481,513 -128	151.487 -13.2 282.382 408.7	0	0 0		11. 12. 11.	0 1348	0 - 10,1	061,516 -101,8	П		)E INF
8	250,405,393			-436,425,736	000,000,000	0 0	53,736,887,807 - 2		4	-	1	1		604.73			£ 386,745 18.	2785,690	ì				\$ 146,230 A	1342791			A 516 148	3112	135,097				-152,230	0 428,617	CS01 (krm)		RTRA
27.879 (6.94 - 20,061,778,140	4	12,550,116 20,385 0,000 088 5,701		چ م		0 0	2,302,268 53,736		45.0	9,0%			- 1		4,242,654,281 -1,		1		-					-		6(23,484,283 - 2	1	50,000	150,000	192261	417,523		435,736,007	100			AND/0
	÷		- 08	Ariend	1.7. 1.7.	6-e				K9 61 05- 25	8, 27,816,755	67,318,459 4,162,418,6	D -1.10s,740,547,352				0 17.388,748,178 6 36,345,757,128	5.325.034.0	ľ	. 49		1,316.1	5 34 167 693,164	D 49/6/38/4/19/413			ſ	T	io			ľ		1	(mer)		TARY.
8,807.21	20,202	5,366,745	-152,230	Ā	- E		7	167,708	-7	100		įς	34.551.075.000	-3 74 900 100	15,000,000	20/03/00	18,451,564,561	- EE \$18749.29	1, 66 508 500	1,64,002,000	6, 603,009,000	25, 55,000,000	24,714,739,685	6 64 100,000	4,790.508,06	2, 90,000,000	9,795,000,000	40,356,020	-1,728 1500	10,000,00	3,865,000,000	-4 PSQ 25000	-2 59 000,000	10 May 20 20 20 20 20 20 20 20 20 20 20 20 20	Nr.		OPRIE
Index.	dX tobx	THAXX IN	TITALON FINSILIS	DRAXX PRISEN	Snge lares	Equiños	Synthetic Yotal	TRAXX XO	hypstrants AfS	Investments Total	BifBA Credit Total	IFPAXX NP1 Outspix	TRACK MATERS	SPACK AN US-US	ISPACK ANY OG-20	INDUCK MAI 13-22	TRACK MET2-100		-	CONTROPO			CBX IG Total	CDL HE Hedge	CONTRACTOR	COLT	CCK NY 35-100	COX (CDX Outsign	COX LCOX Heady	COXICONES 12	CDX 1CTK 15-100	CDX LCDX Total	TRAXX PAGUS	BOVXINE Green Tale		1975 10 10 10 10 10 10 10 10 10 10 10 10 10	BANK PROPRIETARY AND/OR TRADE INFORMATION







#### Investment Grade vs. High Yield (Compression) (cob 5/29/12) Exposure & P&L Commentary Risk depiction WTD Since 4/30 P&L (\$000s) Daily We are long investment Grade and Short Compression exposure detail Compression (39,971) (39,682) (499,473) High Yield such that we lose if High Yield CDXIG vs. HY (26,605) (25,324) (184,150) widens (narrows) less (more) than a ratio of Decompression 10% CSW (13,670) (14,493) (334,717) (485) iTraxx MN vs. XO 5.5:1 to Investment Grade CDXIG Other CDX HY/LCDX 406 Above P&L based on an indicative attribution ITRAXX MN/FINSEN/SOVX (218)model and may not match representative 114 ITRAXX XO/FIN SUB trade P&L estimation CDXIG CDXHY CDX HY 2,000 7 CDXIG (S17) (S17/S18) (S17) (S17/S18) (\$mm) \$44,977 20/12/2018 21/03/2017 Maturity 1.000 Volumes Notional \$44,977 (\$7,101) 79,649 8,896 CS01 (21.0)2.5 3/07 3/09 3/10 3/11 3/12 1M Daily Avg. 2,938 10% CSW 21,256 (241.4)150.9 Since 4/30 Historical 446,344 62,940 CSW 10% Change Current CS01 Spread Days to Liquidation 11 12 Loss Gain Close of Day (0.2)(8.0)(\$mm) Close of Week (241.4) 150.9 IG (S17/S18) (21.0) 117 (20% daily avg. vol.) HY (\$17) 653 (\$456.4) \$1,041.0 Since April 30 (115.1) (12.0)2.5 5.59x 4.00x 9.23x IG vs. HY ratio iTraxx MN | iTraxx XO iTraxx MN iTraxx XO 1,000 (S16/S17) (S16) notional) (S16/S17) (S16) (€mm) 21/03/2017 20/12/2016 Notional (€6,044) (€4,417) Maturity Notional (€6,044) (€4,417) 1Week Total 63,403 15,198 CS01 3.9 1.9 1M Daily Avg. 10% CSW 119.6 14,246 4,029 66.3 Historical Since 4/30 300,051 86,738 CSW 10% Change Current Days to Liquidation Close of Day CS01 Spread Loss Gain 2 7.6 MN (S16/S17) (20% daily avg. vol.) Close of Week 66.3 119.6 3.9 (\$162.0) \$1,892.1 (25.3)XO (\$16) 1.9 698 Since April 30 230.7 4.09x 3.58x 10.08x MN vs. XO ratio

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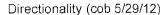
DRAFT (5/29/12)

### Off-the-run index risk (cob 5/29/12)

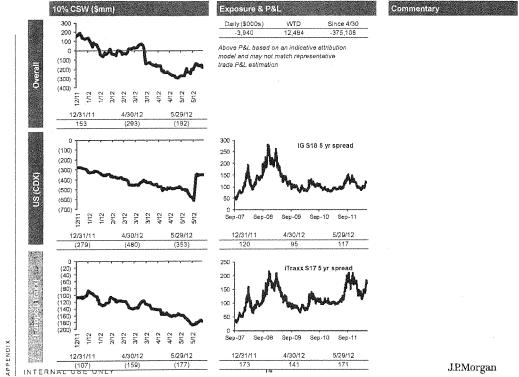
		vormonenteners	nal (\$bn) Delta Adj.	PV (\$mm)		1 (\$mm) Day Chg.	Daily (\$000s) -28,842	-22,072	Since 4/30 -198,829	This refers to the concentrated po		
Overall	CDXIG9 iTraxx S9 Total	46,989	56,115 34,385 90,500	(2,543) (2,041) (4,584)	(25) (18) (43)	(0.0) (0.0) (0.1)		sed on an indi y not match re	cative attribution	IG CDX and iTh		e-iuirinusce
X(B)	(\$mm) CS01		IG 9 10yr (25.4)	1G	18 5yr (17.4)		300 - 5YOTI	10759	OTR/S9 60	(\$mm) Notional	IG 9 10yr \$46,989	IG 18 5y \$36,639
US example	Change Close of Close of Since A	of Week	(0.0) (25.4) 19.7		(0.1) (17.4) (8.8)		250 - 200 - 150 -		40 20 0 (20)	Volumes 1Week Total 1M Daily Avg. Since 4/30	10,947 2,324 47.601	79,649 21,256 446,344
	Gince /	pin so	19.7		(0.0)	•	100 - 50 - 0	. W.W.	(40) (60) (80)	Days to Liquidation (20% daily avg. vol.)	101	440,344
	(\$mm)	en communication	MN S9 10vr	MN S	17 5 yr	ileanna ann an Aireann  Sep-07 Sep-08		MARKET OTR/59	(Emm)	MN S9 10yr	MN S175	
	CS01 Change		(17.5)	11110	9.5	• .	250		40 40 30	Notional Volumes	€16,479	(€21,088
	Close o		(0.0) (17.5)		9.5 9.5		150 - 1,00	KM:	20 10	1Week Total 1M Daily Avg.	670 277	63,403 14,246
	Since A	pril 30	1.7		13.4		50	120	(10) (20) (30) (40)	Since 4/30 Days to Liquidation (20% daily avg. vol.)	5,932 298	300,051 7

1 PV represents balance sheet carrying value

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#### DRAFT (5/29/12)



BANK PROPRIETARY AND/OR TRADE INFORMATION

OCC-SPI-00089407

2409

#### DRAFT (5/29/12)

### Tranche Risk (cob 5/29/12)

Correlation 10% shift	1	
Index name	Tranches	То
CDX.IG Junior	0-30%	1
CDX.IG Super Senior	30-100%	(17
CDX.IG Total		(4
CDX.HY Junior	0-35%	
CDX.HY Super Senior	35-100%	
CDX.HY Total		
iTraxx Junior	0-22%	(2
iTraxx Super Senior	22-100%	(18
iTraxx Total	-	(18
Grand total	Tal (magricular)	(17

Daily (\$000s)	WTD	Since 4/36
TBU	TBU	TBU

		Long IG 9 Super St. 10yr	Short 0-30
	10% Corr 01	(18)	25
22	Change		
	Week To Date	-0.22	0.00
	Since April 30	-3.26	0.37

7.63		Long iTraxx 9	Short
		Super 10yr	0-22
	10% Corr 01	-15	11
	Change		
r i	Week To Date	0.28	-0.04
	Since April 30	-0.72	-0.90

Graphs of 10%	correlation shift
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Theoretical max gain/loss based on 10% Corr and Spread graph CIO Vol traded since Apr 30th Implied Daily, weekly P/L

Commentary

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OCC-SPI-00089407

APPENDIX

# Default profile (cob 5/29/12)

	Total exposure	4 30 30				ld.				
	# of	# Names w/ defaul	t default	# Names w/ default		ault				
	Portfolio name	s loss risk		gain rìsk	Avg.	Max.				
Overall	Portfolio (today) 67	5 75	(\$45) (\$221)	600	\$155	\$636				
	Portfolio (post Dec. '12) 67	2 255	(235) (565)	417	132	636				
	IG9 only (today) 12	1 D	0 0	121	279	520				
	IG9 only (post Dec. '12) 12	1 121	(441) (565)	0	0	0				
	Top 5 exposures									
	Loss					C	Gain			
	Pre December 2012	(\$mm)	Post December 201	12	(\$mm)	F	re December 2012	(\$mm)	Post December 2012	(\$mm)
	1. H. J. Heinz Company	(220.5)	Capital One Bar National Associ		(565.2)	7	. Liz Claiborne, Inc.	519.5	Brunswick Corporation	252.7
	L-3 Communications     Corporation	(217.5)	Comcast Cable     Communication		(515.2)	2	. Gannett Co., Inc.	519.1	<ol><li>The New York Times Company</li></ol>	240.8
83	3. Boston Scientific Corporation	(215.2)	3. Wyeth Lic		(515.1)	3	Lennar Corporation	518.7	3. The Tjx Companies, Inc.	235.7
	4. Directy Holdings Lic	(213.8)	Rohm And Haas     Company	5	(510.1)	4	l. Belo Corp.	517.3	4. Temple-Inland Inc.	222.6
	5. Nabors Industries, Inc.	(202.8)	5. Rio Tinto Alcan	Inc.	(505.2)	5	5. Limited Brands, Inc.	510.2	5. Dean Foods Company	220.7
\$255555 5077/070	Pre June 2013	(\$mm)	Post June 2013		(\$mm)	F	Pre June 2013	(\$mm)	Post June 2013	(\$mm)
	1. Imperial Chemical Industries	(1.6)	1. Imperial Chemic	ca)	(1.6)	1	. Gas Natural Sdg, S.A.	636,2	Gas Natural Sdg, S.A.	636.2
	2. Altadis Sa	(1.6)	2. Altadis Sa		(1.6)	2	2. Gdf Suez	577,8	<ol><li>Gdf Suez</li></ol>	577.9
	3. Hanson Limited	(0.1)	<ol> <li>Royal &amp; Sun All Insurance Pic</li> </ol>	iance	(0.7)	3	Unicredit, Societa Per Azioni	503.3	<ol><li>Banca Monte Dei Paschi Di Siena S.P.A.</li></ol>	463.2
1	C'Air Liquide Societe     Anonyme Pour L'Etude Et     L'Exploitation Des Procedes	(0.0)	The Royal Bank Scotland N.V.	Of	(0.6)	4	<ol> <li>Banca Monte Dei Paschi Di Siena S.P.A.</li> </ol>	486.7	<ol> <li>Banco Biłbao Vizcaya Argentaria, Sociedad Anonima</li> </ol>	457.6
X O O X	Deutsche Bahn     Aktiengesellschaft	(0.0)	5. Hanson Limited		(0.1)	5	<ul> <li>Banco Bilbao Vizcaya</li> <li>Argentaria, Sociedad</li> <li>Anonima</li> </ul>	481,9	Unicredit, Societa Per Azioni	465.7
D.	TERNAL USE ONLY	<u></u>			16				J.P.Morgan	

#### DRAFT (5/29/12)

#### Limits

Summary					
	Usage	Synthetic		Usage	Synthet
Limit (\$mm)	5/29/12	Limit	Limit (\$mm)	5/29/12	Lim
CS01 Unadjusted			VaR	152.5	180.
CDXHY	6.9	8.6			
CDXLCDX	(0.0)	1.8	Compression		
CDXIG	(28.1)	39.4	US Compression Limit	405.5	496.
iTraxx MN .	(8.4)	23,7	EUR Compression Limit	114.1	174.
iTraxx XO	2.0	3.3			
iTraxx Finsub	(0.2)	8.0	Tranche Limits		
iTraxx Fins en	0,2	0.5	10% Corr Shift	(179.4)	175.
CSW10%			Steepen10%		
CDXHY	406.8	496.0	CDXHY	(85.3)	64
CDXLCDX	(0.3)	0.1	CDXLCDX	0.2	0.
CDXIG	(484.8)	549.0	CDXIG	(395.7)	436.
iTraxx MN	(222.8)	434.0	iTraxx MN	(143.5)	265
iTraxx XO	124.9	201.0	iTraxx XO	30.2	65.
iTraxx Finsub	(10.8)	27.0	iTraxx Finsub	(21.3)	30.
iTraxx Finsen	5.2	12.0	iTraxx Finsen	2.6	6
Large Index Notionals					
CDXIG.9.7Y	34.2	34.2			
CDX.IG.9.10Y	47.0	81.0			
iTraxx \$9 7Y	5.4	5.4			
iTraxx S9 10Y	13.1	13.0			

2415

APPENDIX

INTERNAL USE ONLY

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J.P.Morgan

#### Differences summary

seldification is not a com-	13/311: 22/20/20/20/20	nm)	PROPERTY CONTRACTORS	By instrument (\$mm)	VINNESSEE	DESCRIPTION OF THE PROPERTY OF	Paradinas (P. A. E.)
	Sum of	Sum of CP	Sum of MTM		Sum of	Sum of CP MTM	C (15715)
Counterparty	MTM	MTM	Dff	Instrument CDX IG S09 10Y 00-03			
CA	(28)	. (28)	(0)	ITRAXX MN S06 10Y 06-09	(1,383)	(1,382) 67	(1
BBVASA	0	a	(0)		59		(6
BNPP	409	413	(5)	CDX HY S09 05Y 15-25	(11)	(11)	(0
BOA	60	60	0	CDX HY S08 05Y 10-15	24	9	15
BPLC	(98)	(93)	(5)	TRAXX MN S09 10Y 22-100	(506)	(532)	26
CBKAG	(2)	(1)	(0)	CDX IG 509 05Y 00-03	369	375	(6
CGML	(5)	(6)	0	CDX IG \$18 05Y	10	9	1
CITI	(145)	(151)	8	CDX IG S09 10Y 10-15	219	216	3
CSI	(193)	(198)	5	CDX HY S11 07Y	2	(6)	6
CSX	(45)	(49)	4	CDX IG 609 10Y 15-30	41	38	3
DBKAG	362	365	(3)	Other	1,563	1,579	(16
GSI	(27)	(27)	(0)	Total	387	361	25
HSBCEU	8	9	(1)				
HSBCUS	. (7)	(9)	3				
MLI	5	5	(0)				
MSCS	185	146	39				
MSIL	(92)	(91)	(1)				
NOMURAIP	115	110	5	V			
RBSPLC	73	73	(0)				
SGCIB	(65)	(40)	(25)				
UBSAG	(123)	(126)	3				
Total	387	361	25				

CIO PV Differenc	es with Markl	pricing							
Index (\$mm) ¹			Tranche (\$mm)1			Pricing tol	erance¹		
	MarkIT PV Change	PV Exceeding Cap ¹		MarklT PV Change	Exceeding Cap ¹	Position Type	Position Type	Independent Source	Notes
Series 09 Index	67.0	44.1	Series 09 Index	42.1	35.6	Index - IG	1/2 bps	Markit	Aggregate max: \$50mm
Other Index	19.1	9,8	Other Index	(33.9)	(22.7)	Index - HY	1 bps	M arkit	Aggregate max: \$50mm
Subtotal	86.2	53.9	Subtotal	8.2	12.9	Tranche	\$2mm	Dealer quotes	Perposition
By Family			By Family						
CDX IG	-		CDX IG	-					
CDX HY	•		CDX HY						
(TRAXX MN	(3.8)		ITRAXX MN	(1.6)					
ITRAXX XO	(4.3)		Chg. due to OnTR 5Y	(1.6)					
Chg. in OnTR 5Y	(8.0)								

INTERNAL USE ONLY Note: as of 5/25/12

1 Negative number implies marks are too low – P&L adjusted upward to cap; Positive number implies marks are too high – P&L reduced to cap

JPMorgan

Fight   Notional   Product   Maturity   Counterparty   Price   Spread   Cay Price   Spread   Price   Cay							Traded	Traded	Previous	Previous Day	Closina	Closing Spread
LONG   50,000,000 CDX HY S18 05Y   20-Jun-17   MS CAP SVC NY   94.06   93.75   94.00		Pro to 1	No. of Lab	Dec. (cont	Matrician	Country						(bps)
2 LONG 50,000,000 CDX HY \$18.05Y 2D-Jun-17 80A CHARLOTTE 94.19 93.75 94.00   3 LONG 50,000,000 CDX HY \$18.05Y 2D-Jun-17 NOMURA LDN 93.94 93.75 94.00   5 SHORT -75,000,000 CDX HY \$18.05Y 2D-Jun-17 NOMURA LDN 94.06 93.75 94.00   5 SHORT -75,000,000 CDX HY \$18.05Y 2D-Jun-17 NOMURA LDN 94.00 93.75 94.00   7 SHORT -50,000,000 CDX HY \$18.05Y 2D-Jun-17 NOMURA LDN 94.00 93.75 94.00   8 LONG 40,000,000 CDX HY \$18.05Y 2D-Jun-17 NOMURA LDN 94.00 93.75 94.00   93.75 94.00   93.75 94.00   93.75 94.00   93.75 94.00   93.75 94.00   93.75 94.00   93.75 94.00   93.75 94.00   93.75 94.00   93.75 94.00   93.75 94.00   93.75 94.00   93.75 94.00   93.75 94.00   93.75 94.00   93.75 94.00   93.75 94.00   93.75 94.00   93.75 94.00   93.75 94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   93.75 94.00   94.00   94.00   93.75 94.00   94.00   94.00   94.00   94.00   94.00   94.00   94.00   94.00   94.00   94.00   94.00   94.00   94.00   94.00   94.00   94.00   94.00   94.00   94.00   94.00   94.00   9								opread		Spreau		(5)55
LONG   25,000,000   CDX HY S18 05Y   20-Jun-17   NOMURA LDN   93 94   93.75   94.00												
LONG   50,000,000 CDX HY \$18 05Y   20-Jun-17   80 A CHARLOTTE   94,19   93,75   94,00   93,75   94,00   93,75   94,00   93,75   94,00   93,75   94,00   93,75   94,00   93,75   94,00   93,75   94,00   93,75   94,00   93,75   94,00   93,75   94,00   93,75   94,00   93,75   94,00   93,75   94,00   93,75   94,00   93,75   94,00   93,75   94,00   93,75   94,00   93,75   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,00   94,0												
8 HORT												
B												
SHORT												
B												
10   10   10   10   10   10   10   10												
10   LONG   85,000,000 CDX HY \$19.05Y   20-Jun-17   NONURA LDN   94.19   93.75   94.00   94.01   11   LONG   50,000,000 CDX HY \$19.05Y   20-Jun-17   NONURA LDN   94.06   93.75   94.00   93.75   94.00   94.01   12   LONG   250,000,000 CDX HY \$19.05Y   20-Jun-17   80.00 CDX HY \$10.00   224.00   225.00   224.00   225.00   224.00   225.00   224.00   225.00   224.00   225.00   224.00   225.00   224.00   225.00   224.00   225.00   224.00   225.00   224.00   225.00   224.00   225.00   224.00   225.00   224.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.00   225.												
1												
12 LONG 250,000,000 CDX is \$18.06Y 20-Jun-17 BOA CHARLOTTE 115.75 117.50 117.50 118 LONG 50,000,000 TRAXX RINSEN \$17.05Y 20-Jun-17 CSPB INTL LDN 291.00 291.00 294.00 25 SHORT -50,000,000 TRAXX RINSEN \$17.05Y 20-Jun-17 SOCGEN 291.00 294.00 25 SHORT -50,000,000 TRAXX RINSEN \$17.05Y 20-Jun-17 SOCGEN 291.00 294.00 25 SHORT -50,000,000 TRAXX RINSEN \$17.05Y 20-Jun-17 SOCGEN 291.00 294.00 25 SHORT -50,000,000 TRAXX RINSEN \$17.05Y 20-Jun-17 SOCGEN 291.00 294.00 25 SHORT -50,000,000 TRAXX RINSEN \$17.05Y 20-Jun-17 SOCGEN 291.00 294.00 25 SHORT -20,000,000 TRAXX RINSEN \$17.05Y 20-Jun-17 SOCGEN 291.00 294.00 25 SHORT -20,000,000 TRAXX RINSEN \$17.05Y 20-Jun-17 SOCGEN 291.00 294.00 25 SHORT -20,000,000 TRAXX RINSEN \$17.05Y 20-Jun-17 SOCGEN 293.00 294.00 25 SHORT -20,000,000 TRAXX RINSEN \$17.05Y 20-Jun-17 SOCGEN 498.50 491.00 44 SHORT -150,000,000 TRAXX RINSEN \$17.05Y 20-Jun-17 SOCGEN 498.50 491.00 44 SHORT -150,000,000 TRAXX RINSEN \$17.05Y 20-Jun-17 SOCGEN 498.50 491.00 26.75 26 SHORT -150,000,000 TRAXX RINSEN \$17.05Y 20-Jun-17 SOCGEN 498.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 169.50 1												
13   LONG							94.06				94.00	
14   LONG												117.00
SHORT   -50,000,000   TRAXX FINSEN S17 05Y   20-Jun-17   SOGGEN   291,00   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,00   25   294,0												290.00
16   SHORT   -20,000,000   ITRAXX FINSEN S17 05Y   20-Jun-17   MS CAP SVC NY   292.00   294.00   255.000   294.00   255.000,000   ITRAXX FINSEN S17 05Y   20-Jun-17   SARCLAY'S NY   291.00   294.00   294.00   295.000   294.00   295.000   294.00   295.000   294.00   295.000   294.00   295.000   294.00   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   295.000   2												290.00
SHORT												290.00
18	16	SHORT										290.0
SHORT   -20,000,000   ITRAXX   SIS 17 05Y   20-Jun-17   SOGEN   488.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00   486.50   491.00	17											290,01
20   LONG   160,000,000   ITRAXX MN S09 109	18	LONG	20,000,000 1	TRAXX FINSEN S17 05Y								290.0
SHORT   -150,000,000   ITRAXX MN S17 0SY   20-Jun-17   CTIBANK NY   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,50   169,5	19	SHORT	-20,000,000 1	TRAXX FINSUB S17 05Y								485.0
22 SHORT -250,000,000 ITRAXX MN S17 05Y 20-Jun-17 BOA CHARLOTTE 169.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 189.50 1	20	LONG										206,1
Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Sect	21	SHORT	-150,000,000 I	TRAXX MN S17 05Y	20-Jun-17	CITIBANK NY						169.4
SHORT   -150,000,000   ITRAXX MN S17 05Y   20-Jun-17   BARCLAYS NY   197.50   199.50   162   163   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   164   1	22	SHORT	-250,000,000 I	TRAXX MN S17 05Y	20-Jun-17	BOA CHARLOTTE						169.4
25 LONG 50,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 693.00 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 688.00 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 688.00 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 688.00 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 693.00 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 693.00 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 693.00 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 693.00 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 693.00 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 693.00 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 693.00 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 693.00 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 693.50 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 693.50 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 693.50 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 695.00 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 695.00 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 690.75 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 690.75 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 690.75 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 690.75 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 690.75 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 690.75 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 690.75 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 690.75 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 690.75 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 690.75 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 690.75 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 690.75 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 690.75 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 690.75 700.00 65 60,000,000 ITRAXX XO 517 05Y 20-Jun-17 BNP LDN 690.75	23	SHORT	250,000,000 !	TRAXX MN S17 05Y	20-Jun-17	DEUTSCHE LDN		167.50				169.4
26 LONS 50,000,000 ITRAXX XO S17 05Y 20-Jun-17 BNP LDN 687.00 700.00 65 27 LONG 50,000,000 ITRAXX XO S17 05Y 20-Jun-17 BNP LDN 688.00 700.00 65 28 LONG 50,000,000 ITRAXX XO S17 05Y 20-Jun-17 BNP LDN 693.00 700.00 65 29 LONG 50,000,000 ITRAXX XO S17 05Y 20-Jun-17 BNP LDN 693.00 700.00 65 30 LONG 50,000,000 ITRAXX XO S17 05Y 20-Jun-17 BNP LDN 693.00 700.00 65 31 LONG 50,000,000 ITRAXX XO S17 05Y 20-Jun-17 BNP LDN 693.00 700.00 65 32 LONG 50,000,000 ITRAXX XO S17 05Y 20-Jun-17 BNP LDN 693.00 700.00 65 33 LONG 35,000,000 ITRAXX XO S17 05Y 20-Jun-17 BNP LDN 693.00 700.00 65 34 LONG 35,000,000 ITRAXX XO S17 05Y 20-Jun-17 BNP LDN 693.00 700.00 65 34 LONG 50,000,000 ITRAXX XO S17 05Y 20-Jun-17 BNP LDN 693.00 700.00 65 35 LONG 50,000,000 ITRAXX XO S17 05Y 20-Jun-17 BNP LDN 695.00 700.00 65 36 LONG 50,000,000 ITRAXX XO S17 05Y 20-Jun-17 BNP LDN 695.00 700.00 65 36 LONG 50,000,000 ITRAXX XO S17 05Y 20-Jun-17 BNP LDN 695.00 700.00 65 36 LONG 50,000,000 ITRAXX XO S17 05Y 20-Jun-17 BNP LDN 695.00 700.00 65 36 LONG 50,000,000 ITRAXX XO S17 05Y 20-Jun-17 BNP LDN 695.00 700.00 65 37 BHORT 306,000,000 ITRAXX XN S10 05Y 20-Jun-17 BNP LDN 695.00 700.00 65 38 LONG 50,000,000 ITRAXX XN S10 05Y 20-Jun-17 BNP LDN 695.00 700.00 65 39 LONG 50,000,000 ITRAXX XN S10 05Y 20-Jun-17 BNP LDN 695.00 700.00 65 30 LONG 50,000,000 ITRAXX XN S10 05Y 20-Jun-17 BNP LDN 695.00 700.00 65 30 LONG 50,000,000 ITRAXX XN S10 05Y 20-Jun-17 BNP LDN 695.00 700.00 65 31 LONG 50,000,000 ITRAXX XN S10 05Y 20-Jun-17 BNP LDN 695.00 700.00 65 31 LONG 50,000,000 ITRAXX XN S10 05Y 20-Jun-17 BNP LDN 695.00 700.00 65 31 LONG 50,000,000 ITRAXX XN S10 05Y 20-Jun-17 BNP LDN 695.00 700.00 65 31 LONG 50,000,000 ITRAXX XN S10 05Y 20-Jun-17 BNP LDN 695.00 700.00 65	24	SHORT	-150,000,000 i	TRAXX MN S17 05Y	20-Jun-17	BARCLAYS NY		167.50				169.4
27 LONS   50,000,000   ITRAXX XO 517 05Y   20-Jun-17   BNP LDN   693.00   700.00   65	25	LONG	50,000,000	TRAXX XO S17 05Y	20-Jun-17	BNP LDN						693.7
28 LONG 50,000,000 ITRAXX XO S17 GSY 20-Jun-17 8NP LDN 693.00 700.00 65 29 LONG 50,000,000 ITRAXX XO S17 GSY 20-Jun-17 8NP LDN 693.00 700.00 65 30 LONG 50,000,000 ITRAXX XO S17 GSY 20-Jun-17 8NP LDN 693.00 700.00 65 31 LONG 50,000,000 ITRAXX XO S17 GSY 20-Jun-17 8NP LDN 693.00 700.00 65 32 LONG 50,000,000 ITRAXX XO S17 GSY 20-Jun-17 8NP LDN 693.00 700.00 65 33 LONG 35,000,000 ITRAXX XO S17 GSY 20-Jun-17 8NP LDN 693.60 700.00 65 34 LONG 50,000,000 ITRAXX XO S17 GSY 20-Jun-17 8NP LDN 693.60 700.00 66 35 LONG 50,000,000 ITRAXX XO S17 GSY 20-Jun-17 8NP LDN 695.00 700.00 65 36 LONG 50,000,000 ITRAXX XO S17 GSY 20-Jun-17 8NP LDN 695.00 700.00 65 37 SHORT -336,000,000 ITRAXX XO S17 GSY 20-Jun-17 8NP LDN 690.75 700.00 65 38 LONG 50,000,000 ITRAXX XO S17 GSY 20-Jun-17 8NP LDN 690.75 700.00 65 39 SHORT -336,000,000 ITRAXX XO S17 GSY 20-Jun-17 6NP LDN 690.75 700.00 65 30 LONG 65,000,000 ITRAXX XO S17 GSY 20-Jun-17 6NP LDN 690.75 700.00 65 31 LONG 65,000,000 ITRAXX XO S17 GSY 20-Jun-17 6NP LDN 690.75 700.00 65 31 LONG 65,000,000 ITRAXX XO S17 GSY 20-Jun-17 6NP LDN 690.75 700.00 65 31 LONG 65,000,000 ITRAXX XO S17 GSY 20-Jun-17 6NP LDN 690.75 700.00 65 31 LONG 65,000,000 ITRAXX XO S17 GSY 20-Jun-17 6NP LDN 690.75 700.00 65 31 LONG 65,000,000 ITRAXX XO S17 GSY 20-Jun-17 6NP LDN 690.75 700.00 65 31 LONG 65,000,000 ITRAXX XO S17 GSY 20-Jun-17 6NP LDN 690.75 700.00 65 31 LONG 700,000 FRAXX XM S09 GSY 00.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700.00 700	26	LONG	50,000,000 (	TRAXX XO S17 05Y	20-Jun-17	BNP LON		687.00		700.00		693.7
29 LONG 50,000,000 ITRAXX XO S17 0SY 20-Jun-17 BNP-LDN 693.00 700.00 65 30 LONG 50,000,000 ITRAXX XO S17 0SY 20-Jun-17 BNP-LDN 693.00 700.00 65 31 LONG 50,000,000 ITRAXX XO S17 0SY 20-Jun-17 BNP-LDN 691.00 700.00 66 32 LONG 50,000,000 ITRAXX XO S17 0SY 20-Jun-17 BNP-LDN 691.00 700.00 65 33 LONG 35,000,000 ITRAXX XO S17 0SY 20-Jun-17 BNP-LDN 693.50 700.00 65 34 LONG 50,000,000 ITRAXX XO S17 0SY 20-Jun-17 BNP-LDN 693.50 700.00 65 35 LONG 50,000,000 ITRAXX XO S17 0SY 20-Jun-17 BNP-LDN 695.00 700.00 65 36 LONG 50,000,000 ITRAXX XO S17 0SY 20-Jun-17 BNP-LDN 695.00 700.00 65 36 LONG 50,000,000 ITRAXX XO S17 0SY 20-Jun-17 BNP-LDN 695.00 700.00 66 37 SHORT 396,000,000 ITRAXX XO S17 0SY 20-Jun-17 BNP-LDN 695.00 700.00 66 38 LONG 50,000,000 ITRAXX MO S17 0SY 20-Jun-17 BNP-LDN 695.00 700.00 66 39 BHORT 396,000,000 ITRAXX MO S00 0SY 20-Jun-13 USS LDN 149.00 152.50 152.50	27	LONG	50,000,000 I	TRAXX XO S17 05Y	20-Jun-17	BNP LDN		688.00		700.00		693.7
29 LONG \$0,000,000 ITRAXX XO \$17 GSY 20-Jun-17 BNP LDN 693.00 700.00 693.00 700.00 693.00 100.00 100 ITRAXX XO \$17 GSY 20-Jun-17 BNP LDN 693.00 700.00 693.00 700.00 693.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.0	28	LONG	50,000,000 1	TRAXX XO \$17 05Y	20-Jun-17	BNP LDN						693.7
31 LONG 50,000,000 ITRAXX XO S17 05Y 20-Jun-17 BNP-LDN 691.00 700.00 65 32 LONG 50,000,000 ITRAXX XO S17 05Y 20-Jun-17 BNP-LDN 698.00 700.00 65 33 LONG 35,000,000 ITRAXX XO S17 05Y 20-Jun-17 BNP-LDN 693.50 700.00 65 34 LONG 50,000,000 ITRAXX XO S17 05Y 20-Jun-17 BNP-LDN 695.00 700.00 65 35 LONG 50,000,000 ITRAXX XO S17 05Y 20-Jun-17 BNP-LDN 695.07 700.00 65 36 LONG 50,000,000 ITRAXX XO S17 05Y 20-Jun-17 BNP-LDN 690.75 700.00 65 36 LONG 65,000,000 ITRAXX XO S17 05Y 20-Jun-17 CITBANK NY 695.00 700.00 65 37 SHORT 365,000,000 ITRAXX MN S09 05Y 00-Jun-13 USB-LDN 149.00 152.50 15 38 LONG 20,000,000 ITRAXX MN S09 05Y 00-03 20-Jun-13 USB-LDN 149.00 38.13 38.50	29	LONG	50,000,000 1	TRAXX XO \$17 05Y	20-Jun-17							693.7
32 LONG 50,000,000 TRAXX XO S17 05Y 20-Jun-17 BNP LDN 698.00 700.00 69 33 LONG 35,000,000 TRAXX XO S17 05Y 20-Jun-17 CITIBANK NY 693.50 700.00 69 34 LONG 50,000,000 TRAXX XO S17 05Y 20-Jun-17 BNP LDN 695.00 700.00 69 35 LONG 50,000,000 TRAXX XO S17 05Y 20-Jun-17 BNP LDN 690.75 700.00 69 36 LONG 65,000,000 TRAXX XO S17 05Y 20-Jun-17 BNP LDN 690.75 700.00 69 36 LONG 65,000,000 TRAXX XO S17 05Y 20-Jun-17 CITIBANK NY 695.00 700.00 69 37 SHORT -336,000,000 TRAXX MN S09 05Y 20-Jun-13 UBS LDN 149.00 152.50 15 36 LONG 20,000,000 TRAXX MN S09 05Y 00-03 20-Jun-13 UBS LDN 36.13 38.50	30	LONG	50,000,000	TRAXX XO \$17.05Y	20-Jun-17	BNPLDN		693.00				693.7
10   10   10   10   10   10   10   10	31	LONG	50,000,000	TRAXX XO S17 05Y	20-Jun-17	BNP LDN		691.00				693.7
33         LONG         35,000,000 (TRAXX XD 517 05Y)         20-Jun-17         CITIBANK NY         693,50         700,00         66           34         LONG         50,000,000 (TRAXX XD 517 05Y)         20-Jun-17         BNP LDN         695,00         700,00         65           35         LONG         50,000,000 (TRAXX XD 517 05Y)         20-Jun-17         BNP LDN         690,07         700,00         66           36         LONG         65,000,000 (TRAXX MN 590 05Y)         20-Jun-17         CITIBANK NY         695,00         700,00         66           37         SHORT         -336,000,000 (TRAXX MN 590 05Y)         20-Jun-13         LISS LDN         149,00         152,50         15           38         LONG         20,000,000 (TRAXX MN 590 05Y)         00-03         20-Jun-13         USS LDN         38,13         38,50			50,000,000 1	TRAXX XO \$17 05Y	20-Jun-17	BNPLON		688.00		700,00		693.7
34         LONG         50,000,000 ITRAXX XO 517 05Y         20-Jun-17         8NP LDN         695.00         700.00         65           35         LONG         50,000,000 ITRAXX XO 517 05Y         20-Jun-17         8NP LDN         690.07         700.00         65           36         LONG         65,000,000 ITRAXX XO 517 05Y         20-Jun-17         CITIBANK NY         695.00         700.00         66           37         SHORT         -336,000,000 ITRAXX MN S09 05Y         20-Jun-13         UBS LDN         149.00         152.50         15           38         LONG         20,000,000 ITRAXX MN S09 05Y 00.03         20-Jun-13         UBS LDN         38.13         38.50			35,000,000 1	TRAXX XO S17 05Y	20-Jun-17	CITIBANK NY		693.50		700.00		693.7
36 LONG 65,000,000 ITRAXX XO S17.05Y 20-Jun-17 CITIBANK NY 695.00 700.00 66 37 SHORT 336,000,000 ITRAXX MN S09.05Y 20-Jun-13 UBS LDN 149.00 152.50 15 38 LONG 20,000,000 ITRAXX MN S09.05Y 00-03 20-Jun-13 UBS LDN 38.13 38.50			50,000,000	TRAXX XO \$17 05Y	20-Jun-17	BNP LON		695,00		700.00		693.7
36         LONG         65,000,000 TIRAXX NO 517 G5Y         20-Jun-17         CITIBA NK NY         695.00         700.00         68           37         SHORT         -336,000,000 TIRAXX MN 509 G5Y         20-Jun-13         LIBS LDN         149.00         152.50         15           38         LONG         20,000,000 TIRAXX MN 509 G5Y 00-03         20-Jun-13         UBS LDN         38.13         38.50			50,000,000 1	TRAXX XO S17 05Y	20-Jun-17	BNP LON		690.75		700.00		693.7
37 SHORT -336,000,000 ITRAXX MN S09 GSY 20-Jun-13 UBS LDN 149.00 152.50 15 38 LONG 20,000,000 ITRAXX MN S09 GSY 00-03 20-Jun-13 UBS LDN 38.13 38.50 3			65,000,000	TRAXX XO S17 05Y	20-Jun-17	CITIBANK NY		695.00		700,00		693.7
38 LONG 20,000,000 TRAXX MN S09 05Y 00-03 20-Jun-13 UBS LDN 38.13 38.50 3					20-Jun-13	UBS LDN		149.00		152,50		151.2
								38.13		38.50		38.2
39 SHORT - 250,000,000 ITRAXX MN S09 10Y 22-100 20-Jun-18 BNP LDN 66.75 66.00 6						BNP LDN		66.75		66.00		66.1

# Daily price testing - Index

OOB; 2012-05-29							Total Index	62.92	39,2
Product	USD Factored Notional (\$ mm)	Credit Spread BP Value (\$ mm	Price Type	CIO Quote (LON Close)	Markit Quote (NY/LON Close)	ICE Quote (NY/LON Close)	Mark/T Spread Difference	MarkIT PV Change (\$ mm)	PV Exceeding Cap (\$ mm)
Series 09 Index								23.91	8.8
CDX IG \$09 10Y	45,485	(22.70)	spread	159.0	158.3	158.8	(0.7)	15.36	4.0
CDX IG S09 07Y	33,099	(8.27)	spread	119.0	117.9	118.2	(1.1)	9.14	5.
CDX IG S09 05Y	(31,675)	1.79	spread	79.5	81.5	81.9	2.0	3.51	2.
TRAXX MN S09 05Y	20,781	(2.20)	spread	151.3	149.4	151.3	(1.8)	4.01	2.
TRAXX MN S09 10Y	16,479	(8.84)	spread	206.1	207.3	206.1	1.1	(9.90)	(5.4
TRAXX MIN S09 07Y	6,707	(1.97)	spread	183.4	182.5		(0.9)	1.79	0.
								39.02	29.
Other Index	36,639	(17.58)		117.00	116.68	116.75	(0.3)	5.69	
CDX IG S18 05Y			spread price	100.06	100.11	100,06	(77.1)	7.27	7.
CDX HY 508 05Y	15,430	(0.09)	1 ' 1	109.50	109.42	100.00	(0.1)	0.30	,
CDX IG \$17 05Y	8,338	(3.66)	spread	109,50	100.53	100.45	(15.9)	5.09	4
CDX HY 509 05Y	5,686	(0.32)	price	99.25	99.15	100,45	3.2	(3.69)	(2.
CDX HY S11 07Y	3,703	(1.16)	price	99.25 84.00	94.13	94.06	(3.3)	1.72	(2.:
CDX HY S18 05Y	1,365	(0.52)	price	101.44	101.54	101.48	(6.5)	0.99	0
CDX HY S11 05Y	994	(0.15)	price				0.5		
CDX IG S08 07Y	434	(0.09)	spread	133.75	134.26	135,00		(0.04)	(0.
CDX IG S16 10Y	302	(0.23)	spread	143.00	141.95	141.88	(1.1)	0.25	0
CDX IG \$14 10Y	257	(0.18)	spread	133.00	132.48	135.63	(0.5)	0.09	0
CDX IG \$15 10Y	(54)	0.04	spread	136.25	136.35	137.38	0.1	0,00	
CDX HY S14 03Y	(73)	0.01	price	101.81	101.81		0.1	0.00	
CDX HY S08 07Y	(180)	0.04	price	98,88	98.99		(5.6)	(0.20)	(0.
CDX IG S07 07Y	(704)	0.11	spread	137.00	141.86		4.9	0.52	o
CDX LCDX \$10 05Y	(1,165)	0.12	price	101.50	101.51		(1.0)	(0.12)	(0.
COX HY S10 07Y	(2,049)	0.58	price	101.38	101.31		2.3	1.33	C
CDX HY S16 05Y	(6,562)	2.25	price	97.81	97.67	97.80	4.2	9.36	7
CDX HY S17 05Y	(6,887)	2.49	price	95.25	95.39	95.34	(3.6)	(9.00)	(B.
COX IG S14 05Y	(7,657)	2.33	spread	83.00	84.75	84.32	1.8	4.08	2
COX HY \$10 05Y	(9,134)	0,97	price	102.06	102.01	101,94	5.1	4.92	3
CDX HY 815 05Y	(9,618)	3,00	price	99.13	99.14	99.23	(0.4)	(1,08)	
DX HY S14 05Y	(11,977)	3.33	price	100.25	100.25	100.34	(0.1)	(0.23)	
CDX IG S15 05Y	(17,159)	8.01	spread	93.25	94.43	94.13	1.2	7.08	4
CDX IG \$16.05Y	(18,229)	7.19	spread	103.50	103.71	103.88	0.2	1.51	

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# Daily price testing (cont'd) - Index

CIO PV Differences	with MarkIT	pricing							
	USD Factored	Credit Spread		CIO Quote (LON Close)	Markit Quote (NY/LON Close)	ICE Quote (NY/LON Close)	MarkIT Spread Difference	Mark(TPV Change (\$ mm)	PV Exceeding Cap (\$ mm)
Freduct ITRAXX MN S16 05Y	Notional (\$ mm) 13,512	BP Value (\$ mm (5.65)	spread	169.58	169.44	169.58	(0.1)	0.81	CONTROL OF THE PARTY OF THE PAR
TTRAXX MN S15 05Y	5,090	(1.91)	spread	172.83	171.94	172.83	(0.9)	1.71	0.75
TTRAXX FINSUB S14 05Y	1,636	(0.48)	spread	485.00	487.39		2.4	(1.16)	(0.91)
ITRAXX FINSUB 516 05Y	1,311	(0.52)	spread	507.00	507.18		0.2	(0.09)	,/
ITRAXX XO S17 05Y	1,141	(0.41)	spread	693.75	694,43	693.75	0.7	(0.28)	
ITRAXX MN S15 07Y	1,109	(0.58)	spread	192.64	189.44		(3.2)	1.86	1.57
ITRAXX MN S06 10Y	100	(D.D4)	spread	210.44	217.92		7.5	(0.30)	(0.28)
TRAXX FINSUB S17 05Y	50	(0.02)	spread	485.00	482,84		(2.2)	0.05	0.04
ITRAXX FINSUB S07 05Y	(117)	0.00	spread	570.00	464,48		(105.5)	(0.07)	(0.07)
TRAXX FINSEN S17 05Y	(436)	0.18	spread	290.00	288.57		(1.4)	(0.26)	(0.17)
TRAXX FINSUB S15 05Y	(570)	0.19	spread	501.00	500.18		(8.0)	(0.15)	(0.06)
ITRAXX FINSUB S08 05Y	(662)	0.04	spread	427.00	415.23		(11.8)	(0.43)	(0.41)
ITRAXX FINSUB \$12 05Y	(973)	0.22	spread	463.5D	469.42		5.9	1.31	1.20
TTRAXX FINSUB \$10 05Y	(1,385)	0.21	spread	443.00	445.16		2.2	0.44	0.34
ITRAXX MN S16 10Y	(1,661)	1.25	spread	186,63	187.59	186.63	1.0	1.21	0.58
ITRAXX XO S15 05Y	(1,695)	0.55	spread	608,75	607.13	608.75	(1.6)	(0.89)	(0.34)
ITRAXX MN S15 10Y	(2,046)	1.47	spread	192.75	195.03	192.75	2.3	3.35	2.62
ITRAXX FINSUB S09 05Y	(2,121)	0.22	spread	420.00	427.00		7.0	1.54	1.43
ITRAXX MN S15 03Y	(3,522)	0.71	spread	142.64	140.73		(1.9)	(1.36)	(1.00)
ITRAXX XO \$16 05Y	(5,537)	1.86	spread	661.25	660.68	661,25	(0.4)	(0.70)	
ITRAXX MN S17 05Y	(21,088)	9.68	spread	169.44	169.09	169.44	(0.4)	(3.39)	

By Family				Change in the O	nTR 5Y Contract			(18,55)	
ICDX IG	49,076	(35.23)	spread	117.00	116.68	116.75	-0.3	11.41	
CDX HY	(19,302)	10.42	price	94.00	94.13	94,06	(3.3)	(34.17)	
ITRAXX MN	35,461	(9.10)	spread	169.44	169.09	169.44	(0.4)	2.64	
ITRAXX XO	(6.092)	2.02	spread	693.75	594.43	693.75	0.7	1.37	

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# Daily price testing - Tranche

XXII: 2012-05-29						Total Tranche	(31.92)	(17,73)
Product	USD Factored Notional (\$ mm)	Credit Spread BP Value (\$ mm)	Price Type	CIO Quete (LON Close)	Adj Tranche Priced in (based on Ref Index)	idependent Index Spread Quote Change		V Exceeding Cap (5 mm)
erles 09 Tranche				····			(11.18)	(4.97)
DX K3 S09 10Y 30-100	18,565	(2.78)	upfront+100	-3,4	-3.4	(0.7)	1.88	
DX IG S09 07Y 30-100	11,121	(0,06)	upfront+100	-2.2	-2.2	(1.1)	0.06	1
DX IG 809 10Y 00-03	2,018	(4.67)	upfront+500	71.9	72.2	(0.7)	3.16	1.16
DX IG S09 10Y 07-10	775	(1.81)	upfront+500	7.4	7.7	(0.7)	1.23	
DX IG 809 10Y 03-07	60	(0.18)	upfront+500	29.4	29.7	(0.7)	0.12	
DX IG 809 07Y 03-07	(215)	0.38	upfront+500	6.1	6.5	(t.b)	(0.42)	
DX KG S09 05Y 30-100	(260)	0.00	upfront+100	-0,6	-0.6	2.0	0.00	
DX IG 809 07Y 00-03	(331)	1.09	upfront+500	53.6	54.2	(1.1)	(1.20)	- 1
DX IG S09 07Y 07-10	(365)	0.26	upfront+500	-5.9	-5.7	(1.1)	(0.29)	
DX IG 809 05Y 03-07	(1,395)	0.16	upfront+500	-2.4	-2.4	2.0	0,31	1
DX IG S09 07Y 10-15	(1,970)	08.0	upfront+100	0.4	0.4	(1.1)	(0.89)	
DX IG 809 10Y 10-15	(1,980)	2.74	upfront+100	10.6	10.7	(0.7)	(1.85)	1
DX IG S09 05Y 07-10	(2,045)	0.01	upfront+500	-2.8	-2.6	2.0	0.02	1
DX IG 809 05Y 00-03	(2.719)	5.82	upfront+500	15.9	15.5	2.0	11.40	9.40
DX IG S09 05Y 10-15	(2,905)	0.02	upfront+100	-0.6	-0.6	2.0	0.03	
DX IG 809 10Y 15-30	(3,800)	2.35	upfront+100	1.1	1.2	(0.7)	(1.59)	
DX IG 809 07Y 15-30	(6,965)	1,00	upfront+100	-1.6	-1.8	(1.1)	(1.11)	- 1
DX IG 909 05Y 15-30	(12,215)	0.07	upfront+100	-0.6	-0.6	2.0	0.13	
TRAXX MN S09 10Y 22-100	20,384	(6.86)	spread	66.1	65.5	1,1	(7,68)	(5,68)
TRAXX MN 509 07Y 22-100	14,198	(1.82)	spread	29.1	30,1	(0.9)	1,65	-
TRAXX MN S09 05Y 22-100	8,901	(0.20)	spread	7.5	8.1	(1.8)	0.36	
TRAXX MN 509 10Y 00-03	1,417	(1.27)	upfront+500	73.2	73.2	1.1	(1.42)	
TRAXX MN S09 10Y 06-09	476	(0.78)	upfront+300	29,6	29.6	1.1	(0.87)	1
FRAXX MN 509 05Y 06-09	426	(0.07)	upfront+300	-2.3	-2.2	(1.8)	0.13	
TRAXX MN S09 05Y 09-12	351	(0.03)	spread	49,0	51,3	(1.8)	0.06	
FRAXX MN 509 10Y 09-12	295	(0.39)	spread	599.0	589.7	1,1	(0.44)	- 1
FRAXX MN S09 07Y 09-12	226	(0.19)	spread	391.0	395.3	(0.9)	0.17	- 1
FRAXX MN 509 10Y 12-22	194	(0.16)	spread	290.0	294.6	1.1	(0.18)	
TRAIXX MN S09 10Y 03-06	6	(0.02)	upfront+500	40.4	40.5	1.1	(0.02)	
FRAXX MN S09 07Y 06-09	(31)	0.00	upfront+300	11.4	11.7	(0.9)	(0.00)	
FRAXX MN S09 05Y 12-22	(157)	0.01	spread	26.0	27.4	(1.8)	(0.01)	1
TRAXX MIN S09 07Y 03-08	(201)	0.31	upfront+500	21.1	21.4	(0,9)	(0.29)	1
FRA.XX MIN S09 05Y 03-06	(451)	0.34	upfront+500	0.3 175.0	0.5 176.0	(1.8)	(0.62)	
TRAXX MN 509 07Y 12-22	(564)	0.26	spread			(0.9)	(0.24)	
TRAXX MN 509 07Y 00-03	(840)	1.03	upfront+500	63.1	63.4	(0.9)	(0.93)	(0.0
TRAIXX MIN S09 05Y 00-03	(3,673)	6.51	upfront+500	38.3	38.7	(1.8)	(11.84)	(9.84)

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# Daily price testing (cont'd) - Tranche

	USDFactored	Oredit Spread BPValue (\$ mm)		CO Quote (LON Close)	Adj Tranche Priced (based on Ref Index)	tridependent Index Spread Queto Change		PV Exceeding
Product Wher Tranche	Notional (\$ mm)	SEA GING (SALID)	Price Type	(LOW SOME)	(district on Foreignes)	Queto Change	Chango (\$ mm) (20,64)	Cop (\$mm) (12.77)
XX HY 510 05Y 35-100	3,744	(0.05)	price	105,1	105.2	5.1	(0.26)	(12.27)
DX HY 909 05Y 35-100	3,051		price	102.8	102.8	(15.9)	0.12	
	2,852			104.9			0.12	
DX LCDX S10 05Y 15-100			price		104.8	(1.0)		
DX HY S10 05Y 15-25	2,063	(1.20)	price	91.8	93.5	5.1	(6.07)	(4.07)
DX HY 510 07Y 35-100	1,452	(0.19)	price	111.2 6.4	111.2 8.5	2,3	(0.44)	
DX HY S10 07Y 10-15	1,360		price			2,3	(0.87)	
DX HY S11 05Y 15-25	1,015		price	78.6	78.3	(6.5)	5.05	3.06
DX HY S09 05Y 25-35	875		price	102.8	102.8	(15.9)	0.13	
DX HY 508 05Y 25-35	663	(0.00)	price	100.4	100.3	(77.1)	0.03	
DX HY 510 05Y 25-35	655		price	103.6	104.1	5.1	(0.35)	
DX HY S11 05Y 35-100	508		price	107.0	107.0	(6.5)	0.11	
XDX HY \$11 05Y 10-15	405		price	13,9	13.7	(6.5)	1.20	
XX HY 510 07Y 15-25	385		price	58.1	58.5	2.3	(0.86)	
DX HY S08 07Y 25-35	282		price	104.3	104.8	(5.6)	0.45	
XDX HY 510 07Y 25-35	265		price	97.4	97.6	2.3	(0.36)	
DX HY S11 05Y 25-35	250	(0.05)	price	104.4	104.3	(6.5)	0.34	
XDX HY 610 05Y 10-15	232		price	20.3	22.1	5.1	(0.74)	
DX HY 508 07Y 15-25	225	(0.19)	price	84.5	85.9	(5.6)	1.05	
XDX IG 507 07Y 07-10	110	(0.04)	upfront+500	-4.1	-4.3	4.9	(0.19)	
DX LCDX S10 05Y 12-15	110	(0.03)	price	102.9	102.3	(1.0)	0.03	
CX HY S08 07Y 35-100	109	(0.01)	price	108.9	109.1	(5.8)	0.04	
DX IG.S15 05Y 15-100	100	(0.01)	upfront+25	0.2	0.1	1.2	(0.02)	
DX HY 511 07Y 35-100	96	(0.02)	price	110.6	110.7	3.2	(0.05)	
DX HY 508 07Y 10-15	47	(0.04)	price	32.1	33.8	(5.6)	0.23	
DX HY S11 07Y 10-15	17	(0.00)	price	7.1	7.3	3.2	(0.01)	
DX HY 507 07Y 15-25	0	(0,01)	price	92.5	96.0	20.9	(0.13)	
XX HY S07 07Y 35-100	0	(0.00)	price	106.6	106.8	20.9	(0.00)	
DX KG 507 07Y 15-30	0	0.00	upfront+100	-1.2	-1.2	4.9	0.00	
DX IG S07 07Y 30-100	0	0.00	upfront+100	-1.3	~1.3	4.9	0.00	
DX IG 508 07Y 03-07	0	0,00	upfront+500	5.0	6.4	0.5	0.00	
DX IG S08 07Y 07-10	0	0.00	upfront+500	-5.4	-5.2	0.5	0.00	
EIX IG 508 07Y 10-15	. 0	(0.00)	upfront+100	-0,4	-0.3	0.5	(0.00)	
DX IG 508 07Y 30-100	0	(0,00)	upfront+100	-1.7	-1.7	0.5	(0.00)	
DX K3 S10 05Y 03-07	0	0.00	upfront (500	-2.4	-2.2	1.3	0.00	
DX IG S10 05Y 07-10	0	(0,00)	upfront+500	-4.9	-4.8	1.3	(0.00)	
DX HY S11 07Y 15-25	(30)		price	51.1	51.6	3.2	0.07	
XX HY S09 05Y 10-15	(71)	0.06	price	31.5	32.5	(15.9)	(0,98)	
DX HY 508 05Y 35-100	(94)	0.00	price	100.4	100.3	(77.1)	(0.00)	
DX IG S15 05Y 00-03	(195)	0.66	upfront+500	33.9	33.7	1.2	0.78	
XIX IG \$08 07Y 15-30	(375)	0.04	upfront+100	-1.9	-1.B	0.5	0.02	
DX HY S08 05Y 10-15	(812)		price	96.6	95.5	(77.1)	(11.47)	(9.47)
DX HY S09 06Y 15-25	(1,055)	0.31	price	99.5	99.9	(15.P)	(4.92)	(2.92)
		0.01		100.2	100.2	(77.1)	(0.50)	

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# Daily price testing (cont'd) - Tranche

Product	USD Factored Notional (\$ mm)	Credit Spread BP Value (\$ mm)	Price Type	CIO Quote (LON Close)	Adj Tranche Priced (based on Ref Index)	Independent Index Spread Quote Change	MarkIT PV Change (\$ mm)	PV Exceeding Cap (\$ mm)
TRAXX MN S15 07Y 22-100	2,507	(0.83)	spread	60.5	62.0	(3.2)	2.65	0.0
TRAXX MN S15 05Y 22-100	2,445	(0.48)	spread	41.0	41.7	(0.9)	0.43	
TRAXX MN \$15 03Y 22-100	376	(0.02)	spread	14.5	14.3	(1.9)	0.03	
TRAXX MIN SOS 10Y 03-05	188	(0,24)	upfront+500	40.3	39.4	7.5	(1.77)	
TRAXX MN S06 10Y 06-09	25	(0.11)	upfront+300	27.8	26.9	7.5	(0.83)	
RAXX MN 515 03Y 03-06	13	(0.02)	upfront+500	8.0	7.8	(1.9)	0.03	
FRAXX MN S06 10Y 09-12	0	(0.00)	spread	612.0	584.6	7.5	(0.02)	
RAXX MN S06 10Y 12-22	0	(0.02)	spread	289.0	275.7	7.5	(0.11)	
RAXX MN S06 10Y 22-100	0	(0.00)	spread	60.9	56.8	7.5	(0.04)	
TRAXX MN S07 10Y 06-09	0	(0.00)	upfront+300	27.3	27.7	6.1	(0.02)	
TRAXX MN S07 10Y 09-12	0	(0.00)	spread	594.5	594.0	6.1	(0.01)	
TRAXX MN S07 10Y 12-22	. 0	(0.00)	spread	274.5	276.1	6.1	(0.00)	
RAXX MN S07 10Y 22-100	0	0.00	spread	60.4	61.2	6.1	0.01	
TRAXX MIN S15 03Y 00-03	(88)	0.16	upfront+500	46.1	45.9	(1.9)	(0.31)	
FRAXX MN S06 10Y 00-03	(130)	0.13	upfront+500	74.3	73.6	7.5	0.97	
RAXX MN S15 07Y 03-06	(244)	0.43	upfront+500	33.5	34.1	(3,2)	(1.37)	
FRAXX MN S15 05Y 00-03	(326)	0.44	upfront+500	60.4	60.6	(0.9)	(0.39)	
TRAXX MN S15 07Y 00-03	(370)	0.42	upfront+500	68.1	68.5	(3.2)	(1.34)	

By Family				Change due to	the OnTR5Y Inde	x		10.57	
CDX HY	14,226	(3.43)	price	94.0	94.1	94.1	(3.3)	11.24	
CDX IG	(6,987)	5.84	spread	117.0	116.7	116.8	(0.3)	(1.89)	
ITRAXX MN	45,352	(3.47)	spread	169.4	169.1	169.4	(0.4)	1.22	

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# Volume and activity update

	Gross notion	nal (\$mm)	Weekly activ	ity (\$mm)	% of notion	al traded
Series	Untranched	Tranched	Untranched	Tranched	Untranched	Tranched
CDXIG S09	818,852	557,464	31,954	7,851	3.90%	1.41%
Traxx MN S09	616,556	522,199	17,076	12,705	2.77%	2.43%
CDXIG S18	390,008	N/A	221,241	N/A	56.73%	N/A
iTraxx MN S16	292,720	N/A	7,532	N/A	2.57%	N/A
Traxx MN S17	351,346	N/A	197,567	N/A	56.23%	N/A
CDX IG S17	239,782	2,100	19,678	137	8.21%	6.50%
CDXIG S16	178,415	N/A	697	N/A	0.39%	N/A
CDXIG S15	174,828	8,303	866	N/A	0.50%	N/A
CDX HY S17	72,421	650	4,924	N/A	6.80%	N/A
CDX HY S10	71,049	45,217	722	130	1.02%	0.29%
Traxx XO S16	63,828	N/A	1,110	N/A	1.74%	N/A
iTraxx XO S17	72,023	N/A	47,157	N/A	65.48%	N/A
CDX HY S09	52,839	34,355	673	40	1.27%	0.12%
iTraxx FinSub S17	25,771	N/A	4,904	N/A	19.03%	N/A

Source: DTCC (week ending 5/18/12)

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# SYNTHETIC CREDIT DAILY RISK REPORT

May 16, 2012

J.P.Morgan

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#### Portfolio Net Since % Chg. Trading lengthening change 30-Apr 30-Apr CSW10% 88.8 (30.3%) Fe Current¹ (204.1) N/A N/A 42.9 (247.0) 2.6 (17.8) (15.2) 45.7 (15.6%) 15May 30-Apr (292.6) 172.4 (126.7) 45.7 0,0

Total (CIO - counterpa	Description rtv)	\$152	Prior da \$156
Largest counterparty	Deustche Bank	110	22
Largestinstrument	CDX HY S08 05Y 10-15	18	19

		irget	
Reduce directio rality	12	Sell \$110mm 10% CSW IG	[\$136mm]
		in US and Europe	\$28bn notional
Reduce compression risk	(8)	\$60mm 10% CSW in US	
		■ Sell \$11.5bn iG	\$8.5bn
		■ Buy \$3bn HY	\$500mm
Reduce basis trades across	121	Buy €3.7bn of iTraxx FinSub	(€400mm)
existing inventory	56	Sell €2.9bn iTraxx XO	€60mm
Roll partially liquid OTR index to more liquid on-the-run	ш	Convert €18.4bn of iTraxx MN S16 to S17	[€1,6bn]

#### ■ Increased iTraxx MN 17 5y short risk outright by €4.9bn

- m Reduced CDX HY \$16.5y outright by \$100mm
- Reduced CDX HY S17 5y outright by \$200mm

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#### Summary commentary

- New trades reduced risk in 10%CSW terms by \$43mm (new trede activity only, does not include changes due to market moves)
- ™ New trade activity: sold €4.9bn iTraxx OTR 5yr; bought \$300mm CDX HY 5y
   P&L +\$45mm Driven by outperformance of CDX IG 59 in US and short dated
   S9 equity tranches, on Greece/Hellenic Telecom fears
- a Compression P&L +\$32mm (IG vs. HY) Europe losses more than offset by US gains on CDX HY underperformance
- VAR over limit (\$174mm vs. \$160mm)

Total IG vs. HY (C)

Total Tranche (D)

ITRAXX 5yr 0-3 vs. 10y 22-100

CDX HY 5yr 10-15 vs. 15-25

Tranche

presentative trade P	&L (\$m	m)			
	Spread	(bps)	CS01	Spread	P&L
	5/15	5/16	(\$mm)	change	(\$000s)
MIN CAR / I					

•	5/15	5/16	(\$mm)	change	(\$000s)
CDX IG S09 trade					
Directionality					(49,390)
On/Off the run					55,296
Curve					(12,718)
Total CDX IG S09 trade (A)					(6,812)
iTraxx S09 trade					
Directionality					(32,665)
On/Off the run					(17,001)
Curve					18,151
Total iTraxx S09 trade (B)					(31,515)
Inv Grade vs HY (US)					
Long: CDX IG S17 05Y	110	111	(3.6)	1.357	(4,942)
Long: CDX IG S18 05Y	116	117	(5.6)	1.476	(8,305)
Short CDX HY S17 05Y	638	652	2.7	13.988	37,502
Subtotal		···········		***************************************	24,255
Inv Grade vs HY (Europe					
Long: ITRAXX MN S16 05Y	173	176	(6.6)	3.230	(21,352)
Short: ITRAXX MN S17 05Y	174	176	3.5	2.611	9,136
Short: ITRAXX XO S16 05Y	701	702	2.1	0.815	1,701
Subtotal					(10,514)

Total selected trades (A+B+C+D) 7,811 J.P.Morgan

30,175 2,022 32,197

13,741

#### Risk and market summary

				Change in C	sw
	Notional (\$mm)	CS01	10% CSW	5/14/12	4/30/12
CDXIG	53,198	(32)	(548)	(4)	(41)
CDXHY	(1,909)	8	484	2	24
ITRAXX MN	78,853	(16)	(366)	(15)	41
ITRAXX XO	5,131	3	191	2	4
CDX LCDX	(18,229)	0	(0)	(1)	0
ITRAXX FINSEN	0	0	8	0	9
ITRAXX FINSUB	(2.861)	(0)	(17)	(0)	8
SOVX WE		0	0	0	0
Total	114,184	(38)	(247)	(15)	46
Memo: CDX IG S09	82,460	(46)	(656)	(5)	(112)

				Spre	ad		Basis to T	Theoretical (I	ops spd)
		5/16/12	5/15/12	5/14/12	4/30/12	3/30/12	5/14/12	1 week	1 month
CDXIG	S18 5 yr	119.0	117.6	114.5	94.7	91.5	1.3	2.8	3.2
	S9 5yr	83.8	83.8	82.0	68.1	70.8	(12.6)	(4.3)	(6.9)
	89 10yr	149.7	148.3	147,0	119.4	113.1	(2.6)	8.3	7.8
CDXHY	S18 5 yr	687.0	672.0	655.0	579.7	578.9	40.6	27.8	20.1
iTraxx Main	S17 5yr	177.7	174.0	168.6	140.5	125.0	4.5	6.7	6.8
	59 10yr	211.7	213.5	208.1	170.5	151.0	(2.6)	13.5	9.6
Traxx Xover	S17 5yr	741.6	733.0	716.0	650.0	613.0	27.5	2.5	2.5

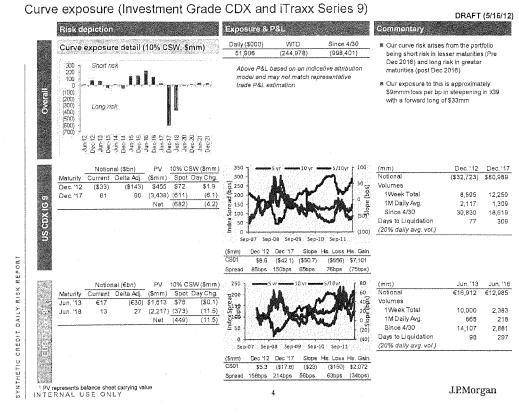
J.P.Morgan

TBU – table shown includes notional and risk factors for both indices and tranches combined
 Estimated based on end of day lavels, may fluctuate based on end-of-day trading and volatility. Data feed not provided for cob 5/16/12. Sourced from Bloomberg.

#### Notional overview

		Notional (\$mm)					Commentary
	CDX IG Vs. HY	Other IG vs High Yield IG 9	Notional 82,460				Risks: Directional, curve, off-the run, forward default exposure when IG S 09 5 yrs matures in December 2012,
		Other IG	(22,962) (20,389)				☼ Contributes to IG vs. HY position as well
		High Yield	(20,389)				Glidepath Target
							Reduce directionality: Sell \$110CSW10% IG in US and Europe ([\$136mm] achieved, \$28bn notional)
							■ Sell \$11.5bn IG (\$8.5bn achieved)
							Buy \$3bn HY (\$500mm achieved)
	iTraxx Main vs.	iTraxx Main	Notional 40,963				■ Long Investment Grade risk and short high yield risk at a specified ratio
	Crossover	iTraxx Cross Over	(6,804)				m Glidepath Terget
							■ Sell €2.9bn iTraxx XO (€60mm)
							Convert €18.4bn iTraxx MN S16 to S17 [(€1.6bn)]
		****	Total	Equity	Mezz	Senior	## Long Investment Grade and short lower quality names in
	Tranche	IG 9	(5,940)	(1,355)	(33,020)	28,435	Europe
	positions	Memo: IG 9 5 yr	(22,400)	(3,570)	(18,560)	(270)	
		IG	(360)	(195)	(265)	100	
H.		HY	17,769	4,291	4,183 440	9,295	
REPORT	~~~~~~~~~~	iTraxx	36,395	(3,230)	440	39,185	
	Other	FinSub	Long 2.661	Short (4.649)			Typically short risk in equity and junior tranches and long risk
RISK	positions	LCDX	4,075	(1,688)			in senior tranches
	granuscus control particular de la control d	***************************************					■ In High Yield, long risk across the capital structure
<u>}</u>							□ Flattener on FinSub/delta hedged long-super senior on LCDX
DAILY							■ Glidepath. Target: Buy \$3.5bn of iTraxx FinSub (-€400mm)
FDIT			Notional				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
m	Memo: IG 9	CDXIG S09 05Y	(32,723)				
O	exposure	CDXIG S09 07Y	34,193				
10	(by maturity)	CDXIG 509 10Y	80,989				
w T		IG9	82,460				
NTHETIC							T D3.4
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### Investment Grade vs. High Yield (Compression)

#### DRAFT (5/16/12)

		Risk depiction	100	us diag	Exposure &	P&L			Commentary		
	Overall	Compression exp Decompression 10% CDX IG CDX HY/LCDX ITRAXX MN/FINSEN/SV ITRAXX XO/FIN SUB	CSW	\$mm (548) 484 (358) 174		1,264 hased on an indica nay not match rep	(86,969) 38,305 (133,624) 8,351	23,025	■ We are long Invest High Yield such the Widens (narrows) Is 5:1 to Investment C	t we lose if Hig ess (more) than	h Yield
	US example (CD)()	(\$mm) Maturity Notional CS01 10% CSW CSW 10% Change Close of Day Close of Week Since April 30	CDXIG (S17/S18) 3/21/2017 \$20,110 (9.3) (104.5) (1.3) 5.2 21.8	CDX HY (S17) 12/20/2016 (\$7,771) 2.7 167.8 1.7 7.2 5.0	2,000 1,500 2,000 2,000 3,007 3/0 (\$mm) G (\$17/\$S18) HY (\$17) IG vs. HY ratio	yk:	Histo Loss	3/12 rical Gain	(\$mm) Notional Volumes 1Week Total 1M Daily Avg, Since 4/30 Days to Liquidation (20% daily avg, vol.)	CDXIG (S17/S18) \$20,110 135,647 15,717 223,134 6	CDX HY (\$17) (\$7,771) 15,499 2,290 30,483 17
TIC CREDIT DAILY RISK REPORT		(\$mm except notional) Maturity Notional CS01 10% CSW CSW 10% Change Close of Day Close of Week Since April 30	iTraxx MN (\$16/\$17) 3/21/2017 €6,458 (3.1) (53.6) 1.2 83.3 110.8	iTrax XO (\$16) 12/20/2016 (£5,017) 2.1 143.2 1.2 3.7 (1.7)	1,000 750 500 250 3/07 3/0 (\$mm) MN (\$16/\$517) XO (\$16) MN vs. XO ratio	Current CS01 Spread (3.1) 174 2.1 733	flores	NRatio g 6 - 3 0 3/12 rical Gain	(Emm) Notional Volumes 1Week Total 1M Daily Avg, Since 4/30 Days to Liquidation (20% daily avg, vol.)	1Traxx MN (S16/S17) 66,456 86,019 11,136 142,730	iTraxx XO (S16) (€5,017) 24,902 3,651 46,934 7
SYNTHETIC		RNAL USE ONLY				5				J.P.Morę	gan

#### Off-the-run index risk

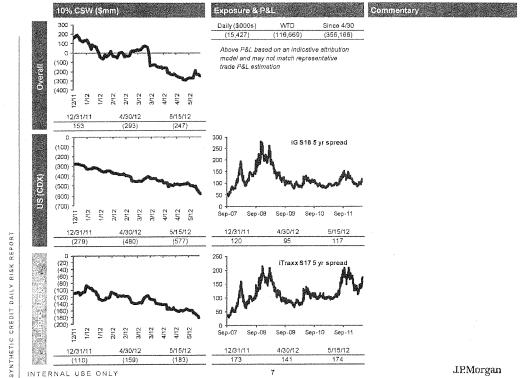
	Overal!		tional (\$bn) ent Delta Adj. 89 89,851 79 36,085		0.2	Exposure & Daily (\$000s) (46.241)  Above P&L bas model and may trade P&L estin	WTD (29,829) sed on an indic rnot match rej	Since 4/30 (84,701) pative attribution presentative	Commentary  This refers to the reconcentrated positing CDX and iTraxe	ions in off-the-	
	US example (CDX)	(\$mm) CS01 Change Close of Day Close of Wee Since April 30				300 5Y CTI 250 200 150 100 50 50 50 50 50 50 50 50 50 50 50 50 5	10Y59	OTR/SS 60 40 20 0 (20) (40) (60) (80) 0 Sep-11	(\$mm) Notional Volumes 1 Week Total 1M Daily Avg. Since 4/30 Days to Liquidation (20% daily evg. vol.)	IG 9 10yr \$80,989 12,259 1,309 18,619 309	IG 18 5yr \$11,772 195,647 15,717 223,134 4
IC CREDIT DAILY RISK REPORT		(Smm) CS01 Change Close of Day Close of Wes Since April 30			<del></del>	250 - 5YOTI 200 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 -	10YS9 = 10YS9 = Sep-09   Sep-1	OTR/S9 50 40 30 20 10 0 0 10 10 10 10 10 10 10 10 10 10 1	(Emm) Notional Volumes 1Week Total 1M Daily Avg. Since 4/30 Days to Liquidation (20% daily avg. vol.)	MN S9 10yr €17,179 2,383 218 2,881 393	MN S17 5 yr (€8,033) 86,019 11,136 142,730 4
SYNTHETIC		PV represents bala		ing value			6			JPM	organ

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#### DRAFT (5/16/12)



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#### DRAFT (5/16/12)

#### Tranche Risk

,		Risk depiction			Exposure & P	&L		Commentary
		Correlation 10% s	hift ¹		Daily (\$000s)	WTD	Since 4/30	
				er Santalesking	TBU	TBU	TBU	
		Index name CDXIG Junior	Tranches 0-30%	Total 112	Above P&I ha	sed on an indi	icative attribution	
		CDXIG Super Senior	30-100%	(131)	model and ma	y not match re		
		CDX IG Total	w	(19)	trade P&L esti	mation		
	Overall	CDX HY Junior	0-35%	25				
		CDXHY Super Senior	35-100%	8				
		CDX HY Total		33				
		iTraxx Junior	0-22%	(32)				
		iTraxx Super Senior	22-100%	(145)				
		iTraxx Total		(176)				
1 1		Grand total		(182)				
١.	roeneros							
			Long IG 9 Super Sr. 10yr	Short 0-30				
		10% Corr 01	(15)	25			•	
	Ø	Change	(10)	20				
		Week To Date	TBU	TBU				
		Since April 30	TBU	TBU				
F	MCS0009UA				Graphs of 1	0% correlatio	n shift	CIO Vol traded since Apr 30th
FPORT					Theoretical Corr and Sp		s based on 10%	Implied Daily, weekly P/L
K 1			Long iTraxx 9	Short	Con and Sp	a eau graph		
R S K	100		Super 10yr	0-22				
E	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10% Corr 01	(15)	11				
5 6	1.0	Change	TBU	TBU				
DAIL		Week To Date Since April 30	TBU	TBU				
T10	微鏡鏡	Since April 30	100	100				
u)								
O.								
0		•						
SYNTHETIC								
F		Correlation data as of COB 4	1/4					IDM .
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# Default profile

		# of	#Names w/default		-	# Names w/ default	P&L g defa	
	Portfolio	names	loss risk	Avg.	Max	gain risk	Avg.	Max
	Portfolio (today)	675	61	(\$31)	(\$185)	614	\$141	\$626
	Portfolio (post Dec. '12)	672	213	(306)	(696)	459	121	626
	IG9 only (today)	121	0	O	0	121	213	468
l	IG9 only (post Dec. '12)	121	121	(508)	(696)	0	0	0

V2M6G98	2 THE RESIDENCE PROPERTY AND ADMINISTRATION OF STREET AND ADMINISTRAL MADE	\$25200000000000000000000000000000000000		0.0000000000000000000000000000000000000	Gain	Se o Les escarantes	CONTRADENSIA (C	Small and sec.
120000	Pre December 2012	(\$mm)	Post December 2012	(\$mm)	Pre December 2012	(\$mm)	Post December 2012	(\$mm)
	<ol> <li>L-3 Communications Corporation</li> </ol>	(184.9)	1. Wyeth Llc	(695.6)	<ol> <li>R.R. Donnelley &amp; Sons Company</li> </ol>	467.9	Brunswick Corporation	269.5
	2. Celestica Inc.	(169.0)	Comcast Cable     Communications, Lic	(694.0)	2. Radian Group Inc.	409,0	<ol><li>The New York Times Company</li></ol>	259.6
Ġ.	<ol> <li>Allied Waste North America, Inc.</li> </ol>	(152.9)	Rohm And Haas     Company	(684.0)	3. Liz Claiborne, Inc.	405.7	<ol> <li>The Tjx Companies, Inc.</li> </ol>	238.0
	Fairfax Financial Holdings     Limited	(149.7)	4. Rio Tinto Acan Inc.	(680,0)	4. Gannett Co., Inc.	401.7	4. Dean Foods Company	237.9
	5. H. J. Heinz Company	(100.1)	5. Wells Fargo & Company	(653.2)	5. Belo Corp.	395.1	5. Temple-Inland Inc.	225.7
	Pre June 2013	(Smm)	Post June 2013	(\$mm)	Pre June 2013	(\$mm)	Post June 2013	(\$mm)
	1. Sabmiller Plc	(34.1)	Sabmiller Plc	(34.1)	<ol> <li>Gas Natural Sdg, S.A.</li> </ol>	626.0	<ol> <li>Gas Natural Sdg, S.A.</li> </ol>	626.0
	2. Statoil As a	(34.0)	<ol><li>Statoil As a</li></ol>	(34.0)	<ol><li>Gdf Suez</li></ol>	555.0	<ol><li>Gdf Suez</li></ol>	555.0
	3. Royal Dutch Shell Pic	(34.0)	3. Royal Dutch Shell Pic	(34.0)	<ol> <li>Unicredit, Societa Per Azioni</li> </ol>	476.3	<ol> <li>Edp - Energias De Portugal, S.A.</li> </ol>	473.9
Teles	<ol> <li>British Sky Broadcasting Group Pic</li> </ol>	(33.7)	British Sky     Broadcasting Group Plan	(33.7)	<ol> <li>Edp - Energias De Portugal, S.A</li> </ol>	473.9	Portugal Telecom     International Finance     B.V.	471,5
	<ol> <li>Telefonaktiebolaget L M Ericsson</li> </ol>	(32.6)	<ol> <li>Telefonaktiebolaget L N Ericsson</li> </ol>	1 (32.6)	<ol> <li>Portugal Telecom International Finance</li> </ol>	471.5	Banca Monte Dei     Paschi Di Siena S.P.A	437.6

#### DRAFT (5/16/12)

#### Limits

	Usage	Synthetic		Usage	Synthetic
Limit (\$mm)	5/15/12	Limit	Limit (\$mm)	5/15/12	Limi
CS01 Unadjusted			VaR	174.0	160.0
CDXHY	7.8	8.6			
CDXLCDX	0.0	1.8	Compression		
CDXIG	(32.2)	39.4	US Compression Limit	484.3	496.0
iTraxx MN	(16.1)	23.7	EUR Compression Limit	174.5	228.0
iTraxx XO	2.8	3.3			
iTraxx Finsub	(0.3)	0,6	Tranche Limits		
iTraxx Finsen	0.3	0.5	10% Corr Shift	(162.2)	175.0
CSW10%			Steepen10%		
CDXHY	484.3	496.0	CDXHY	(62.2)	64.0
CDX.LCDX	(0.0)	0.1	CDXLCDX	0.0	0.5
CDXIG	(548.0)	549.0	CDXIG	(446.1)	436.0
Traxx MN	(366.0)	434.0	iTraxx MN	(207.9)	265.0
jTraxx XO	191.0	201.0	iTraxx XO	61.2	65.0
iTraxx Finsub	(16.5)	27.0	iTraxx Finsub	(25.3)	30.0
iTraxx Finsen	8,3	12.0	iTraxx Fins en	4.1	6.0
Large Index Notionals					
CDXIG.9.7Y	34.2	34.2			
CDXIG.9.10Y	81.0	81.0			
fTraxx S9 7Y	5.4	5.4			
iTraxx S9 10Y	13.0	13.0			

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#### Differences summary

By counte	erp.	arty (\$mr	n)		By instrument (\$mm	U .		
		Sum of	Sum of CP	Sum of MTM			Sum of CP	
Counterparty		MTM	MTM	Diff	instrument	Sum of MTM		Sum of MTM Dit
CA CA		(30)	(31)	1	CDX IG S09 10Y 00-03	(1,395)	(1,395)	(0
BBVASA		(0)	(0)	(0)	TRAXX MN S06 10Y 06-09	57	68	(11
BNPP		399	397	2	CDX HY S09 05Y 15-25	(6)	(7)	1
BOA		58	53	5	CDX HY S08 05Y 10-15	35	18	18
BPLC		(58)	(55)	(4)	TRAXX MN \$09 10Y 22-100	(561)	(565)	4
CBKAG		(1)	(1)	0 .	CDX IG S09 05Y 00-03	430	422	8
CGML		(6)	(7)	O	CDX IG S18 05Y	26	29	(3
СП		(282)	(294)	12	CDX IG S09 10Y 10-15	200	197	3
CSI	-	(201)	(207)	6	CDX HY S11 07Y	(3)	(21)	18
CSX		(53)	(5G)	4	CDX IG S09 10Y 15-30	18	19	(1
DBKAG	_	527	417	110	Other	1,691	1,575	116
GSI		(4)	(25)	21	Total	493	341	152
HSBCEU		16	16	0				
HSBCUS		(7)	(11)	4				
MLI		5	5	(O)				
MSCS	_	163	156	7				
MSIL		(88)	(87)	(2)				
NOMURAIP		124	119	5.				
RBSPLC		100	104	(4)				
SGCIB		(50)	(26)	(24)				
UBSAG		(118)	(126)	8				
Total	-,	493	341	152				

Iotal	-130								
CIO PV Differ	ences with Mar	kIT pricing							
Index (\$mm)1		The state of the s	Tranche (\$mm)1			Pricing tol	erance ¹		
Magazassus an an an Asian Asian Asian Asian Asian Asian Asian Asian Asian Asian Asian Asian Asian Asian Asian	MarkiT Char	PV PV Exceeding ge Cap ¹		MarkiT PV Change	PV Exceeding Cap ¹	Position Type	Position Type	Independent Source	Notes
Series 09 Index	(61		Series 09 Index	9.0	13.8	Index - IG	1/2 bps	Markit	Aggregate max: \$50mm
Other Index	40	.1 32.3	Other Index	(59.4)	(36.9)	index - HY	1 bps	Markit	Aggregate max.; \$50mm
Subtotal	(21	.0) (8.9)	Subtotal	(50.4)	(23.1)	Tranche	\$2mm	Dealer quotes	Perposition
By Family			By Family						
CDX IG	(62	.6)	CDX IG	9.3					
CDX, HY	116	.5	CDX HY	(34.5)					
ITRAXX XO	(15	.2)	ITRAXX MIN	4.2					
ITRAXX MN	18	.2	Chg. due to OnTR 5Y	(21.1)	•				

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Negative number implies marks are too low – P&L adjusted upward to cap; Positive number implies marks are too high – P&L reduced to cap

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DRAFT (5/16/12)

Chg. in OnTR 5Y

- Pricing to equilibrium: In addition to below risk factors, some indices will lose value as they move from richness to fairness.
- Synthetic credit book exposed to six risk factors Each factor represents a directional exposure
- In the short-to-medium term, these exposures can be partially mitigated But not eliminated

Risk Factor	Description of when position loses money	95%ile loss potential
Credit spread widening (Directionality)	■ If credit spreads widen across markets	\$1,110mm
2. Maturity mismatch (Curve)	■ If credit spreads of long-maturity positions get wider relative to short-maturity positions	150mm
3. High Yield vs. Investment Grade	If high yield positions outperform investment grade positions relative to their portfolio weighting	1,060mm
4. Illiquidity of older Indices / Tranches (On-the-Run vs. Off-the-Run)	If credit spreads of the older index (the "off-the-run" index) widen relative to more-recently issued indices (the more "on the run" indices)	770mm
5. "Super senior" debt vs. "equity" positions (Tranches)	■ If there is an increase in the correlation implied between defaults among names within the tranches	490mm
6. Default risk (Risk on individual names)	■ If credit events happen to companies for which we have "sold protection"	291mm
	Est. total diversified 95% loss potential	\$1,820mm
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#### Synthetic Credit risk factors details

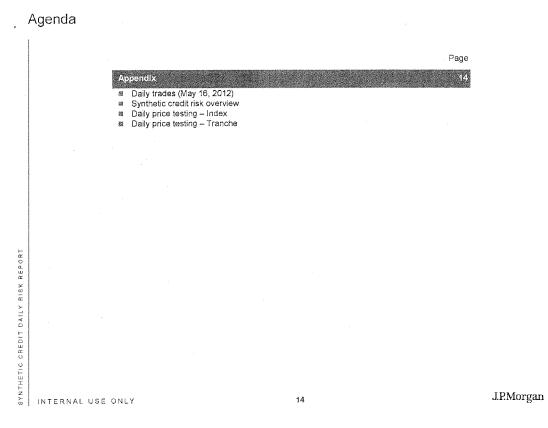
Scenario	Sigma L	oss (\$mm)
90.0% percentile	1.28	1,460
95.0% percentile	1.64	1,820
97.5% percentile	1.96	2,140
99.9% percentile	3.09	3,300
Downside Case A ¹	N/A	3,871
Downside Case B ²	N/A	6,655

#### Assumptions behind analysis

- 🗷 Credit spread widening (Directionality) Net directional loss estimate assumes correlation based on 1yr data
- m Maturity mismatch (Curve)
- w Volatility measured as relative movement of longer maturity spread vs. shorter maturity spread adjusted for overall drift
- Combined across asset classes assuming zero correlation
- M High Yield vs. Investment Grade
- w Volatility based on relative spread movement netted for overall directionality
- Assumes zero correlation between these differences for US and Europe
- Illiquidity of older Indices/Tranches (On-the-run/Off-the run risk)
- Series 9 is assumed as the off-the-run position
- m Risks are combined assuming zero correlation
- ឌ "Super senior" debt vs. "equity" positions (Tranches) Risk factor based on extreme movements of correlation as seen during the credit crisis
- g Default risk (Risk on individual names) Exposure based on comprehensive simulation of default risk using capital model
- Diversified sum All above risk measures combined assuming zero correlation
- ¹ Diversified sum of 95.0% percentile; ² Diversified sum of 99.9% percentile

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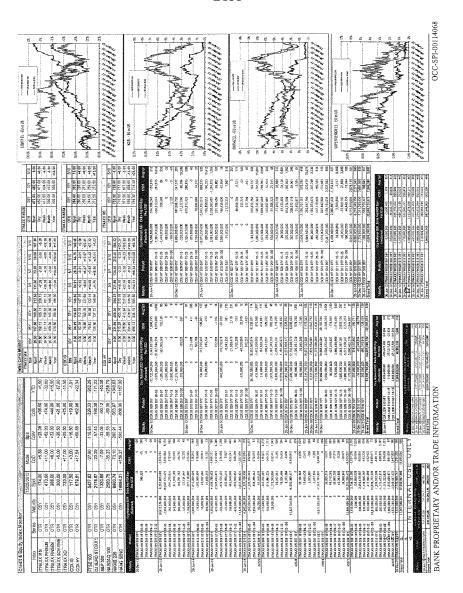
#### DRAFT (5/16/12)

#### New trades

W	ay 16, 2	2012									
						Traded	Traded	PrevDay	Prev Day	Closing	Closing
#	Risk	Notional	Product	Maturity	Counterparty	Price	Spread	Frice	spread	Price	spread
1	SHORT	(500,000,000)	ITRAXX MN \$17 05Y	20-Jun-17	CITIBANK NY		180.00		175.13		177.75 .
2	SHORT	(500,000,000)	TIRAXX MN S17 05Y	20-Jun-17	CITIBANK NY		179.75		175.13		177.75
3	SHORT	(500,000,000)	ITRAXX MN S17 05Y	20-Jun-17	CITIBANK NY		179.50		175.13		177.75
4	SHORT	(500,000,000)	ITRAXX MN 817 05Y	20-Jun-17	OTIBANK NY		179.38		175.13		177.75
5	SHORT	(500,000,000)	ITRAXX MN \$17 05Y	20-Jun-17	CITIBANK NY		181.00		175.13		177.75
6	SHORT	(500,000,000)	ITRAXX MN S17 05Y	20-Jun-17	CITIBANK NY		180,00		175.13		177.75
7	SHORT	(150,000,000)	ITRAXX MN S17 05Y	20-Jun-17	CITIBANK NY		179.75		175.13		177.75
8	SHORT	(500,000,000)	(TRAXX MN S17 D5Y	20-Jun-17	CITIBANK NY		180.00		175.13		177.75
9	SHORT	(250,000,000)	STRAXX MN S17 05Y	20-Jun-17	BNP LDN		180,50		175.13		177.75
10	SHORT	(250,000,000)	ITRAXX MN S17 05Y	20-Jun-17	BNP LDN		180.25		175.13		177.75
11	SHORT	(250,000,000)	TRAXX MN \$17 05Y	20-Jun-17	BNP LDN		180.00		175.13		177.75
12	SHORT	(250,000,000)	ITRAXX MN S17 05Y	20-Jun-17	BNP LON		180,50		175,13		177.75
13	SHORT	(250,000,000)	ITRAXX MN S17 05Y	20-Jun-17	BNP LDN		180.25		175.13		177.75
14	LONG	100,000,000	CDX HY 516 05Y	20-Jun-16	BOA CHARLOTTE	96.63		97.19		96.75	
15	LONG	100,000,000	CDX HY \$17 05Y	20-Dec-16	BOA CHARLOTTE	94,25		94.81		94.31	
16	LONG	100,000,000	CDX HY S17 05Y	20-Dec-16	BOA CHARLOTTE	94.19		94.81		94.31	

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																																	1408
ຄົນຮະອາດເທດ							10,463,260	77,008,947	2,736,978	2,002,000	(0) (0)	18.007.333	45,005,330	15,991,230	3,629,461	12,662,147	956.86E.CL.	18,361,116	6.782.344	6,624.384	4,669,95	4.949.570	95,05	219,082	180'60	67,18	3.80,281	8,160,030,8	16,586,716	46,153,990	70,516,373	11,000,130	n n
131mm) ing / HY dec teeper in US	304	5						26,576,103	2,383,580	0.000,000	592,910	28,734,938	25 W. 155	6.344,AG4	2,352,521	9,694,801	9,415,646	24,504,772	1,828,119	4,001,423	3,559,745	3201281	502/11	90,00	6 55	197,495	6,748,304	8,000,000	23,611.481	-31,418,882	19702.02	10,011,483	.P.Morgan
15mm) 7 \$-2.3bn (   Compressionope but st	32.0mm CS	0.72 een 0					10 de 10	13.801,502	641340	-08,912	310,545	14,302,965	(S/M/S)	2,555,912	428,985	268,121	1,279,446	11 524 755	134.984	1,236,134	1,365 524	2.084.341	0.11	0 0	- M,572	A14 000	1349,022	10,00	15,178,720	9K 861 H -	-1,640,190	17797141	
10%CSW ( tener Self-or s regions; X0 is flatter in E	10%CSW;	Bildon Scolin					38,521,243	195 25 258	57,527,03	23,741,566	1,574,277	-351,842,314	5/4/01/70	29,000,089	3,994,196	53,684,f00 54,700,f00	48,538,338	544.594.273	137,982,323	-19,621,248	-14290267	13.219.369	316,367	2238,781	385.712	200,273	160,376,587	9,119,818	SECTION :	13368277	125,855,081	-	Coss
Sylukako Condit.  Long oreal itsi 4248mm (195GSW (15mm)  Croell Citisk i Lauge Fallerier Gelle of \$2.3m (131mm)  Indee 3% vider across regions; XO compressing i FY decompressing with off-libratin 59 curves latilor it. Europe but skeeps in US.	Securad Credit (MTM & AFS): Long credit isk-526mm (0%CSW;-32.0mm CS0)  1 anna Falfaner sellunf stass creamin lose 2.5 the	anglies spirali					(0,941,485)	108.381,481	14,370.Ne	15,434,332	7,140,417	181,871,878	200 182 302	23,403,961	2,797,039	56,172,441	erane ar.	AGA 805 B.3.	131,282,383	18,283,173	15,815,71	152 858 251	-303.657	1,27,40	403,284	1,557,039	190,000,000	8,282,828	1.51636	18,101,35	154,282,794		S S S S S S S S S S S S S S S S S S S
Synthetic Cred	Secured Oredi	afren				-		4 554.575,000		52 YF	C 100 100 1	12,473,584		E	t topication		- 1	3,472,502,034	- 3		to noring	150.876.039	6				8,380,001	410,001,001	-72,10,133,098	296,11,483	23,440,833,501		W X
						STANCE COLUMN	3,67,602.02	6,395,400,000		5 6	00	14,472,568,389	4735 School	-			0	2 666 301 602	1,856,301,050		(h 45-	208 304 003			***		50,00,00	-680,104,003	-14,322,400,401	-6,190,001	14,018,256,500		OTHER PRINTERS
						Tribleson and Links in	4 MEAN SOO	-4.385.47E.0B0		0 60	00	-228,400,000	5,226,100,000	6	0 6	00	0	000 358 508-	858.450.1000	101	00	00	0 0	0	00	0 0	0 0		777,016,300	-1,596,000	-257 540,000		
		222,253	222,380		0	722,193	05 215 200	39.277.590,005	-620,040,000	005,000,000	-420,025,000 ve ses des ses	10' 90' 10' 1	-02.504.949,985.	036(202)555	1,525,000,000	-4.855/031/800	25,475,033,300	28.656.530.310	6,137,830,000	c 280,500,800	2,950,000,000	0.35,000,000	271,500,360	0	0 000,000,011	Diff (SO) (SO)	- 6,664,294,000	-348,125,380	10.00	15,010,529,978	41,759,188,472	(west alu	
Alban Israel Anna Constant	**************	64,407,805	64,407,806		1	64,407,806	100,100,100	21,946,475,001,342,148,140,145,145,145,145,145,145,145,145,145,145	200,000,250	405,000,000	24 144 000 000					23,256,000,000		27.355,000,000	7,009,300,000	4,397,595,100	2,990,000,000	9 775 000 200	271,660,500	0 0	0.000,000,011	2,000,000,000	5.964.256.980	540,125,300	Trend May 876	219,008,028,878	-64,019,089,472	WID CE	20000000000000000000000000000000000000
			-91,007,116		0	91,037,114	1,671,823,475	80384108	98,651,129	-02,117,800	40,152,148	1,764,215,328	1,007,601,006	802,891,806	00,732,396	348,328 (87 414,167,510	-317.628.000	2,945,269,666	1,390,235,286	21,917,045	183,685,517	3,001,77,500	-8975,900	0	15,183.845	HS\$110,45	W2348567	64,631,738	865,153,744	authit/75	1,022,454,745	SeToff (Sm to.)	
12,722 12,722 182,371 354,561	14,700	00	1,044,309			1,044,858		198673.470	18.472.596	- 0.505.999	746,997 - 53,672,737	314,786,838	591,464,348	68(341)857	12530,660	12715-277	-6174.811	175,853,466	-45,235,734	101,851,750	-6.198,715	1,448,383	294.896	0	-274,083	3,097,745	71,3802,860	14,378,030	655,172,866	176,408,842 0	678,709,884 \$51,173,896	Crafile SeTo	
2317,577 -201,858 4,638,336 0 0	6000	00	19,669,761		6	10,969,551	COT (91 (VIS.)	502,686,609	09,000,945	13,378,494	5,045,851 727,619 CDA.	188.92.53	177,73,667	147,716,501	105,500,000	202,03,843	-201.791.334	2,266,106,490	040,206,975	57,384,971	-82,281,102	527, 10, 526, 538 5, 52, 10, 519	1,526,039	0	2,148.902	-41,165	74,285,291	24,386,972	136,61,650	312,69,152	-1,046,692,429	140	
100,792,605 3,597,741 229,299,390 314,786,839	14,376,030	9 0	855,173,938			816,171,816	-402,941,4650	108,383,401	14,378,304	15,454,102	1,100,457	- d5.674.678	CH2.182.322	23,405,881	23,786,170	50,126,041	-49.916.772	465,522,675	131,267,358	18,295 123	16,818,194	15,304,75	308.637	0	HZ/007	10,03	100,000,000	8,285,629	-340,074,475	122,478,727	194,289,704	C3100,(1)	
3,803,140,043 2,969,726 3,377,101,736 3,377,134,622 1,301,139,772				2.186.150.823	-	-8	0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-453.538	16'1X	280,190	36.523.05	9.0	5,447,254	(300,00k	1,203,033	45.334.024	4,838,034	0 0	4.225,838	348,288	C317,377		ļa.	28,30	281,955	0 0	00	10.912.761	16,848,351	18,066,351		
7,467,000 44,277,467,221,000,000 22,695,700 300,717,701,701,101,102,102,103,103,103,103,103,103,103,103,103,103	39,365,172	0 6	1,344,511,887				18,674,703	3,380,357	875.718	.75,305	64,737	10,002,010	-8.071501	4474.007	945,597	3,860,344	3.448.042	7,960,224	3,285,340	-309,205	-383,223	7,840,265	-22,084	0	0.000	1,005	2813,826	286,578	37,521,659	423/2429	-01.381.228	C\$01 (\$res	
444,027,489 2.3 -12,638 -2.9 -545,04,053 -2.9 -366,574,678 -1.8 -150,088,988 -1.8		00	- 240,074 471 1.3.	56,541,694, 20		712,662,276 -3.9	7,64,516.52	-1125,589,754,667	1,040,784,501	1,000,001,734	148,156,759	27,540,067,910	27,258,125,005	7,221,053,167	3,558,733,288	7,730,465,175	8.728.59R.184	21.697,411,409,783	83.735 113,074	205,007,007	900,251,723	22,606,135,675	96,274,000,000	O CONTROL OF THE PARTY OF THE P	277,575,008	86,252,123	6319,486,627	500,284,138	A Contract of	17,416,105,810	33,643,502,554		
1,860 1,860 1,860 1,600,046 1,813,668		00	: 1	7,827,538	31,712,884 -5	-63,346,723		5 345 475,000 -1.1					ra .	1	(5.25, 000,000		31.435,000,000	T 36 00000 718	87- 006'305'305'4	4,290,500,000	2,990,000,000	N 226,000,000	27.405.030	1	110,000,000	2.436,596,1979	6 804,230,000 Coles 000 000	646125,000	15150.94154	76.09.09.278	64.026.009.472	WVSnmi	
CONTECTOR CONTECTOR TRANSMEN	SDAXX FNSUB SDAXX FNSBN SDAX WE RMBS	Spulles	Syndhetic Total	tronstitution Miles	westments Total		PACK RELOODE		THAXA MUD-UR	THACK MUCH III	THACK AN 12-22	TRACK PORTION	CDK ED Senger	00X X0 00 03	CON 1697-10	CDX RS 10.15	COX 03 30 100	CDK IG Telail	CUX HY Hedge	COON 16:15	CO(14 to 50	200 AF 194 303	COX LCOX CANIGH	CONTROL IS OF	CONTRON (9-12 CONTRON (9-12	COX LCOX Total	STRANCK NO	FRACK FRESH	Grand Potal	Core Statego	Our hibs		



# Daily price testing - Index

COB: 2012-05-15							Total Index	(20.98)	(8.93
	USD Factored	Credit Spread		CIO Quote	Markit Quote	ICE Quote	Mark/T Spread	MarkIT PV	PV Exceedin
Product	Notional (5 mm)	BP Value (\$ mm)	Price Type	(LON Close)	(NY/LON Close)	(NY/LON Close)	Difference	Change (\$ mm)	Cap (\$ mrr
Series 09 index							(	(61.07)	(41.26
CDX IG S09 10Y	78,397	(39.73)	spread	148.3	149.5	148.8	1.2	(48.74)	(28.88
CDX IG S09 07Y	33,099	(8.40)	spread	114.3	113.6	114.4	(0.6)	5.20	1,00
CDX IG S09 05Y	(31,675)	1.92	spread	83.8	84.1	84.8	0.4	0.75	-
ITRAXX MN S09 05Y	21,607	(2.37)	spread	153,1	156.9	153.1	3.8	(8.93)	(7.7)
TRAXX MN S09 10Y	16,589	(8.88)	spread	212.6	213.8	212.6	1.1	(10,08)	(5.6
ITRAXX MIN S09 07Y	6,835	(2.02)	spread	190.1	189.8		(0,4)	0.73	-
Other Index							Γ	40.09	32.3
CDX HY S08 05Y	15,430	(0.15)	price	100,1	100,1	100.1	(54.4)	8,38	8,2
CDX IG S18 05Y	11,772	(5.69)	spread	115.8	117.3	117.4	1.6	(8,86)	(6.0
CDX IG S17 05Y	8,338	(3.68)	spread	109.6	111.2	111.0	1.5	(5.64)	(3.8)
CDX HY S09 05Y	5,686	(0.34)	price	100.5	100.4	100.4	11.6	(3.97)	(3.6)
CDX HY S11 07Y	3,703	(1.17)	price	99.1	98.7	100.1	14.1	(16.47)	(15.3
CDX HY S11 05Y	994	(0.16)	price	101.6	101.3	101.2	23.6	(3.67)	(3.5
CDX IG S08 07Y	434	(0.09)	spread	160.3	131.7	130.5	(28.5)	2.50	2.4
CDX IG S16 10Y	302	(0.23)	spread	139.4	140.4	140.5	1.0	(0.23)	(0.1
CDX IG S14 10Y	257	(0.18)	spread	128.8	129.4	130,2	0,6	(0.11)	0.0)
CDX IG S15 10Y	(54)	0.04	spread	130.3	134.1	133.8	3.8	0.16	0.1
CDX HY S14 03Y	(73)	0.01	price	102.0	101.3	,00.0	67.1	0.54	0.5
CDX HY 'S08 07Y	(180)	0.04	price	98.8	96.8		(1.4)	(0.05)	(0.0
CDX HY S18 05Y	(500)	0.19	price	93.6	93.1	93.1	10.2	1.96	1.7
CDX IG S07 07Y	(704)	0.11	spread	122.3	141.5		19.3	2.14	2.0
CDX LCDX S10 05Y	(1,165)	D.13	price	101.8	101.6		17.3	2.24	2,1
CDX HY S10 07Y	(2,049)	0.59	price	101.3	100.9		13.1	7.68	7.0
CDX HY S16 05Y	(6,756)	2.31	price	97.2	97.0	96.9	4.8	11.10	8.7
CDX HY S17 05Y	(7,537)	2.72	price	94.8	94.5	94.5	8.7	23.67	20.9
CDX IG \$14 05Y	(7,657)	2.35	spread	68.3	89.5	90.3	1.2	2.92	1.7
CDX HY S10 05Y	(9,134)	1.00	price	101.9	101.9	101.7	4.1	4.07	3.0
CDX HY S15 05Y	(9,618)	3.01	price	98.7	98.5	98,3	5.6	17.02	14,0
CDX HY S14 05Y	(12,074)	3.37	price	99.8	99.7	99.6	1.9	6,26	2,5
CDX IG \$15.05Y	(17,409)	6.14	spread	97.3	98.4	99.1	1.1	6.79	3,7

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### Daily price testing (cont'd) - Index

CIO PV Differences	with MarkiTp	oricing							
COB: 2012-05-15							Total Index	(20,98)	(8.93)
	USD Factored	Credit Spread		CIO Quote	Markit Guote	iCE Quote	MarkIT Spread	MarkIT PV	PV Exceeding
Preduct	Notional (\$ mm)	BP Value (\$ mm)	Price Type	(LON Close)	(NY/LON Close)	(NY/LON Glose)	Difference	Change (\$ mm)	Cap (\$ mm)
Other Index							1	40,09	32.34
CDX IG \$16 05Y	(18,229)	7.25	spread	105.4	106.6	106.4	1.2	9.00	5.37
ITRAXX MN S16 05Y	16,006	(6.72)	spread	174.4	174.6	174.4	0.2	(1.37)	-
ITRAXX MN S15 05Y .	5,187	(1.96)	spread	176.3	177.1	176.3	0.9	(1.73)	(0.75)
ITRAXX FINSUB \$14 05Y	1,567	(0.50)	spread	467.0	474.3		7.3	(3.66)	(3.41)
TRAXX FINSUB \$16 05Y	1,336	(0.54)	spread	468.0	493,2		5.2	(2.81)	(2.54)
ITRAXX MIN S15 07Y	1,131	(0.59)	spread	197,0	193.0		(4.0)	2.39	2.09
ITRAXX FINSUB S17 05Y	396	(D.18)	spread	471.0	474.2		3.2	(0.56)	(0.48)
ITRAXX MN S06 10Y	102	(0.04)	spread	216.1	219.8		3.7	(0.15)	(0.13)
ITRAXX MN S14 05Y	-	0.00	spread	176,8	177.8	176.8	1.0	0.00	0.00
(TRAXX FINSUB S07 05Y	(119)	0.00	spread	556,0	439.9		(116.1)	(0.14)	(0.14)
TRAXX XO S17 05Y	(556)	0.19	spread	739.1	733.8	739.1	(5.3)	(1.02)	(0.83)
ITRAXX FINSUB \$15 05Y	(581)	0,19	spread	485.0	484.1		(0.9)	(0.17)	(0.07)
ITRAXX FINSUB S08 05Y	(675)	0.04	spread	413.0	400.9		(12.1)	(D.48)	(0,46)
ITRAXX FINSEN \$17 05Y	(700)	0.29	spread	286.0	287.5		1.5	0.44	0.30
ITRAXX FINSUB \$12 05Y	(991)	0.23	apread	452.0	454.3		2.3	0.53	0.41
ITRAXX FINSUB \$10 05Y	(1,412)	0.21	spread	442.0	428.8		(13.2)	(2.82)	(2.72)
ITRAXX MN S16 10Y	(1,693)	1,27	spreed	190.6	189.6	190.6	(1.0)	(1.26)	(0,63)
ITRAXX XO S15 05Y	(1,728)	0.55	spread	649.5	649.2	549.5	(0.3)	(0.14)	-
TRAXX MN S15 10Y	(2.085)	1.49	spread	196.8	198.0	196.8	1.2	1.82	1.07
ITRAXX FINSUB S09 05Y	(2,162)	0.23	spread	422.0	411.4		(10.6)	(2.46)	(2.34)
ITRAXX MN S15 03Y	(3,589)	0.73	spread	149.2	149.0		(0,2)	(0.18)	-
ITRAXX XO S16 05Y	(6,410)	2.12	spread	704.0	699.6	704.0	(4.4)	(9.36)	(7.24)
ITRAXX MN S17 05Y	(7,757)	3.56	spread	175.1	174.0	175.1	(1.2)	(4.17)	(2.39)
By Family				Change in t	he OnTR5Y Cor	itract	Г	56,90	
CDX IG	56.871	(40.22)	spread	115.8	117.3	117.4	1.6	(62.58)	
CDX HY	(22,107)		price	93,6	93.1	93.1	10.2	116.54	
ITRAXX XO	(8,693)		spread	739.1	733,8	739,1	(5.3)	(15.22)	
ITRAXX MN	52,333	(15.53)		175.1	174.0	175.1	(1.2)	18.16	

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### Daily price testing - Tranche

		otal Tranche							COB: 2012-05-15
V PV Exceeding				Adj Tranche Priced	CIO Quote		Credit Spread	USD Factored	
m) Cap(\$mr	Change (\$ mm)	Change	Quote	(based on Ref Index)	(LON Gose)	Price Type	BPValue (\$ mm)	Notional (5 mm)	Product
9 13.7	8.99								Series 09 Tranche
6) (0.9)	(2.96)	1.2		(3.9)	(3.9)	upfront+100	(2.41)	16,565	CDX IG S09 10Y 30-100
4 -	0.24	(0.6)		(2.3)	(2.3)	upfront+100	(0.39)	11,121.	CDX IG 509 07Y 30-100
4) (4.1	(6.14)	1.2		72.7	72.4	upfront+500	(5.01)	2,018	CDX IG S09 10Y 00-03
0) (0.4)	(2.40)	1.2		6.6	6.3	upfront+500	(1.95)	775	CDX IG \$09 10Y 07-10
4) -	(0.24)	1.2		29.0	28.6	upfront+500	(0.20)	60	CEX IG S09 10Y 03-07
5) -	(0.25)	(0.6)		6.5	6.1	upfront+500	0.41	(215)	CDX IG \$09 07Y 03-07
0 -	0.00	0.4		(0.6)	(0.6)	upfront+100	0.00	(260)	CDX IG S09 05Y 30-100
7) ~	(0.77)	(0,6)		55,1	54.3	upfront+500	1.24	(331)	CDX (G S09 07Y 00-03
7) -	(0.17)	(0.6)		(6.2)	(6.4)	upfront+500	0.27	(365)	CDX IG S09 07Y 07-10
5 -	0.05	0.4		(2.7)	(2.7)	upfront+500	0.14	(1,395)	CDX kg 509 05Y 03-07
8) ~	(0.48)	(0.6)		(0.1)	(0.2)	upfront+100	0.77	(1,970)	CDX IG S09 07Y 10-15
3 1.5	3.53	1.2		9.8	9.6	upfront+100	2.88	(1,980)	CDX IG S09 10Y 10-15
1 -	0.01	0.4		(3.0)	(3.0)	upfront+500	0.04	(2,045)	CDX IG \$09 05Y 07-10
5 0.45	2.45	0.4		18.1	17.8	upfront+500	6.21	(2,719)	CDX IG S09 05Y 00-03
1 -	0.01	0.4		(0.5)	(0.6)	upfront+100	0.02	(2,905)	CDX IG S09 05Y 10-15
3 0,93	2.93	1.2		0.6	0.5	upfront+100	2.39	(3,800)	CDX KG S09 10Y 15-30
3) -	(0.53)	(0.6)		(1.9)	(1.9)	upfront+100	0.85	(6,965)	CDX IG 509 07Y 15-30
2 -	0.02	0.4		(0.6)	(0.6)	upfront+100	0,05	(12,215)	CDX IG S09 05Y 15-30
4) (5.9	(7.94)	1.1		69.2	67.4	spread	(6.99)	21,093	TRAXX MN S09 10Y 22-100
6 -	0.68	(0.4)		33.6	30.0	spread	(1.83)	14,469	ITRAXX MN S09 07Y 22-100
1) -	(0.71)	3.8		8.2	7.8	spread	(0.19)	9,071	ITRAXX MN S09 05Y 22-100
7) -	(1.47)	1.1		73.9	73.5	upfront+500	(1.29)	1,444	TRAXX MN S09 10Y 00-03
J) -	(0.90)	1.1		30.9	30.2	upfront+300	(0.79)	485	ITRAXX MN S09 10Y 06-09
5) -	(0.35)	3,8		(2.2)	(2,3)	upfront+300	(0.09)	434	TRAXX MN S09 05Y 06-09
7) -	(0.17)	3.8		71.5	69,0	spread	(0.05)	358	TRAXX MN S09 05Y 09-12
	(0.46)	1.1		626.9	823.5	spread	(0.41)	300	TRAXX MN S09 10Y 09-12
7 -	0.07	(0.4)		444,3	425,5	spread	(0.20)	230	TRAXX MN S09 07Y 09-12
9) -	(0,19)	1,1		305.6	301,5	spread	(0,16)	198	TRAXX MN S09 10Y 12-22
,	(0.02)	1.1		40.9	40.2	upfront+500	(0.02)	6	TRAXX MN S09 10Y 03-06

# Daily price testing (cont'd) - Tranche

COB; 2012-05-15	USD Factored	Credit Spread		CIO Quote	Adi Tranche Priced		otal Tranche		(23.07 PV Exceeding
Product		BP Value (\$ mm)	Drian Tuna		(based on Ref Index)	independent Quote		Change (\$ mm)	Cap (\$ mm
Hoduci	reducital (\$ fren)	or voice (\$ 1911)	rice type	(LON GUSE)	(based of ricex)	- Luute	Change	Grange (\$ nan)	cap (a mil
Series 09 Tranche								6.69	13.79
TRAXX MN 509 07Y 06-09	(32)	0,00	upfront+300	12.3	13.1		(0.4)	(0.00)	-
ITRAXX MN S09 05Y 12-22	(160)	0.01	spread	40.5	42.4		3.8	0.05	-
TRAXX MN S09 07Y 03-06	(204)	0.31	upfront+500	21.1	22.1		(0.4)	(0.11)	-
ITRAXX MN S09 05Y 03-06	(460)	0.36	upfront+500	1.3	1.5		3.8	1.36	
ITRAXX MN S09 07Y 12-22	(575)	0.28	spread	182.0	192,6		(0.4)	(0.10)	
ITRAXX MN S09 07Y 00-03	(856)	1.03	upfront+500	63.3	64.2		(0.4)	(0.37)	-
ITRAXX MN S09 05Y 00-03	(3,769)	6.46	upfront+500	38.6	0.98		3.8	24.32	22.32
Other Tranche								[59.42]	(36,86
CDX HY S10 05Y 35-100	3,744	(0.05)	price	105.4	105.4		4.1	(0.22)	-
COX HY S09 05Y 35-100	3,051	(0.01)	price	103,0	103.0		11.6	(0.09)	
CDX LCDX S10 05Y 15-100	2,852	(0.12)	price	105.4	105.3		17.3	(2,15)	(0.15
CDX HY S10 05Y 15-25	2,063	(1.25)	price	92.2	91.8		4.1	(5.06)	(3.06
COX HY \$10 07Y 35-100	1,452	(0.19)	price	111.1	111.3		13.1	(2.55)	(0.55
CDX HY S10 07Y 10-15	1,360	(0.38)	price	6.5	.7.0		13.1	(5.01)	(3.01
CDX HY S11 05Y 15-25	1,015	(0.80)	price	77.8	78,4		23.6	(18.75)	(16.75
CDX HY S09 05Y 25-35	875	(0.01)	price	102.9	102.9		11.6	(0.15)	
CDX HY S08 05Y 25-35	663	(0.00)	price	100.7	100.7		(54.4)	0.03	
CDX HY S10 05Y 25-35	655	(0.07)	price	103.9	103.8		4.1	(0.30)	
CDX HY S11 05Y 35-100	508	(0.02)	price	107.3	107.3		23.6	(0.41)	
CDX HY S11 05Y 10-15	405	(0.17)	price	11,8	12,1		23.6	(4.08)	(2.08
COX HY S10 07Y 15-25	365	(0.39)	price	56.5	58.1		13.1	(5.09)	(3,09
CDX HY S08 D7Y 25-35	262	(0.06)	price	104.5	104.5		(1.4)	0,11	
CDX HY \$10 07Y 25-35.	265	(0.16)	price	. 95.8	96.8		13.1	(2.10)	(0.10
CDX HY S11 05Y 25-35	250	(0.05)	price	104.1	104.2		23.6	(1.25)	
CDX HY \$10 05Y 10-15	232	(0,15)	price	19.8	19.4		4.1	(0.62)	
CDX HY S08 07Y 15-25	225	(0.19)	price	85.4	85.4		(1.4)	0.27	

BANK PROPRIETARY AND/OR TRADE INFORMATION

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## Daily price testing (cont'd) - Tranche

008: 2012-05-15						т	otal Tranche	(50.43)	(23.07)
	USD Factored	Credit Spread		CIO Quote	Adj Tranche Priced	Independent	Index Spread	MarkiT PV	PV Exceeding
roduct	Notional (\$ mm)	BP Value (\$ mm)	Price Type	(LON Close)	(based on Ref Index)	Quote	Change	Change (\$ mm)	Cap (5 mm)
Other Tranche								(59.42)	(38.86)
CDX IG S07 07Y 07-10	110	(0.04)	upfront+500	(4.7)	(5.2)		19.3	(0.78)	
CDX LCDX \$10 05Y 12-15	110	(0.03)	price	103.8	103.2		17.3	(0.53)	-
CDX HY S08 07Y 35-100	109	(0.01)	price	108,8	108.7		(1.4)	0.01	
CDX IG S15 05Y 15-100	100	(0.01)	upfront+25	0.2	0.2		1.1	(0.02)	_
CDX HY S11 07Y 35-100	96	(0.02)	price	110.6	110.7		14.1	(0.24)	-
CDX HY S08 07Y 10-15	47	(0.04)	price	33.3	33.2		(1.4)	0.06	
CDX HY S11 07Y 10-15	17	(0.00)	price	6.3	6,3		14.1	(0.06)	_
CDX HY \$07 07Y 15-25	-	(0,01)	price .	93.4	96,0		24.6	(0.17)	-
CDX HY \$07 07Y 35-100		(0.00)	price	106.4	106.6		24.6	(0.00)	
CDX KG S07 07Y 15-30	*	0.00	upfront+100	(1.5)	(1.6)		19.3	0.00	
CDX IG \$07 07Y 30-100	4	(0.00)	upfront+100	(1.4)	(1.4)		19.3	(0.01)	
CDX IG S08 07Y 03-07	~	0.00	upfront+500	5.9	12.5		(28.5)	(0.01)	-
CDX (G S08 07Y 07-10	-	00,0	upfront+500	(5.9)	(3.6)		(28.5)	(0,06)	
CDX IG S08 07Y 10-15	-	(0.00)	upfront+100	(0.9)	(0.1)		(28.5)	0.01	-
CDX IG 508 07Y 30-100	*	(0.00)	upfront+100	(1.8)	(1.7)		(28.5)	0,01	
CDX IG S10 05Y 03-07		0.00	upfront+500	(2.6)	(2.5)		3.2	0.00	
CDX kg \$10 05Y 07-10	*	(0.00)	upfront+500	(5.1)	(5.0)		3.2	(0.00)	
CDX HY S11 07Y 15-25	(30)	0.02	price	51.0	51.3		14.1	0.33	-
CDX HY \$09 05Y 10-15	(71)	0,07	price	31.5	31.5		11,6	0,76	-
CDX HY S08 05Y 35-100	(94)	0.00	price	100.7	100,7		(54.4)	(0.00)	
CDX JG S15 05Y 00-03	(195)	0.69	upfront+500	36.1	36.5		1.1	0.76	_
CDX IG S08 07Y 15-30	(375)	0.03	upfront+100	(2.2)	(1.9)		(28,5)	(0.84)	-
CDX HY SD8 05Y 10-15	(812)	0.24	price	97.5	91.9		(54.4)	(13.23)	(11.23)
CDX HY S09 05Y 15-25	(1,056)	0.33	price	99.6	59.6		11.6	3.85	1.85
CDX HY S08 05Y 15-25	(1,410)	0.01	price	100.6	100.4		(54.4)	(0.58)	
TRAXX MN S15 07Y 22-100	2,555	(0.82)	spread	59.5	64.4		(4.0)	3.31	1.31
ITRAXX MN S15 05Y 22-100	2,491	(0.47)	spread	39.5	42.2		0.9	(0.41)	-
ITRAXX MN S15 03Y 22-100	383	(0.01)	spread	11.5	12.6		(0.2)	0.00	
TRAXX MN S06 10Y 03-06	192	(0.24)	upfront+500	40.1	39.7		3.7	(0.90)	~
TRAXX MN 506 10Y 06-09	26	(0.11)	006+thoritqu	28.3 22	27.9		3.7	(0.42)	J.P.Morg

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## Daily price testing (cont'd) - Tranche

CIO PV Differences wi	th MarklT pr	icing							
QDB; 2012-05-15						Т	otal Tranche	(50.43)	(23.07
	USD Factored	Credit Spread		CIO Quote	Adj Tranche Priced	independent	Index Spread	MarkIT PV	PV Exceeding
Product	Notional (\$ mm)	BP Value (\$ mm)	Price Type	(LON Close)	(based on Ref Index)	Quote	Change	Change (\$ mm)	Cap (\$ mm
Other Tranche								(59.42)	(38.86
TRAXX MN S15 03Y 03-06	13	(0.02)	upfront+500	8.5	9.4	,	(0.2)	0.00	***************************************
ITRAXX MN S06 10Y 09-12	-	(O.OO)	spread	636.5	618.9		3.7	(0.01)	
TRAXX MN 506 10Y 12-22		(0.02)	spread	292.5	264.9		3.7	(0.06)	
ITRAXX MN S06 10Y 22-100	-	(0.00)	spread	62.1	60.0		3.7	(0.02)	-
ITRAXX MN S07 10Y 06-09	-	(0.00)	upfront+300	27.9	29.4		(0.6)	0.00	
ITRAXX MIN S07 10Y 09-12		(0.00)	spread	619.0	644.9		(0.6)	0.00	*
TRAXX MN S07 1DY 12-22		(0.00)	apread	278.0	294.0		(0,6)	0.00	-
ITRAXX MN S07 10Y 22-100		0.00	spread	61.7	66.6		(0.6)	(0.00)	
ITRAXX MN S15 03Y 00-03	(89)	0.16	upfront+500	45.8	46.9		(0.2)	(0.04)	
TRAXX MN S06 10Y 00-03	(133)	0.13	upfront+500	74.6	74.3		3.7	. 0.49	
ITRAXX MN S15 07Y 03-06	(249)	0.45	upfront+500	32.6	34.6		(4.0)	(1.82)	
ITRAXX MN S15 05Y 00-03	(332)	0.47	upfront+500	60.5	61.4		0.9	0.42	
ITRAXX MN S15 07Y 00-03	(377)	0.45	upfront+500	67.8	68.9		(4.0)	(1.81)	-
By Family				Change di	ue to the OnTR 5Y	Index		(21,05)	
CDX IG	(6,987)	5.96	spread	115.8	117.3	117.4	1.6	9.27	'
COX HY	14,226	(3.38)	price	93,6	. 93.1	93.1	10.2	(34.53)	
TRAXX MN	46,513	(3.60)	spread	175,1	174.0	175.1	(1.2)	4.21	

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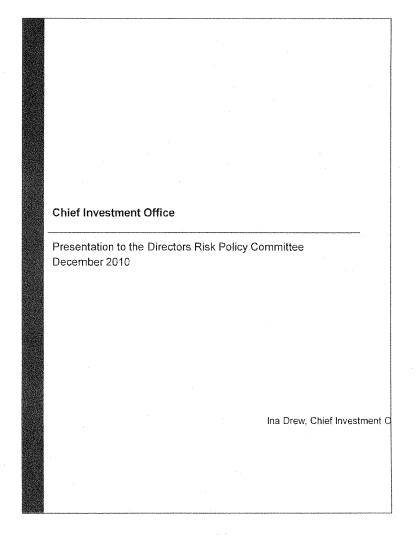
## Volume and activity update

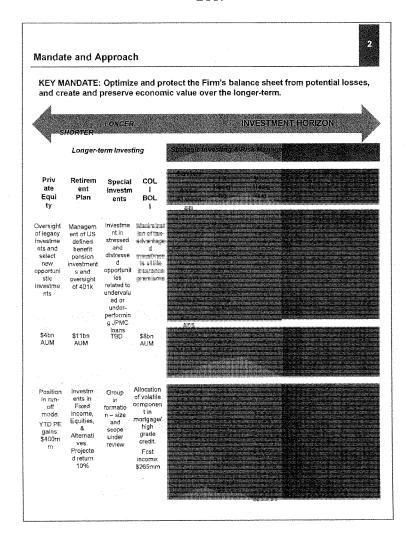
	Gross notional (5mm)		Weekly activ	ity (\$mm)	% of notional traded		
Series	Untranched	Tranched	Untranched	Tranched	Untranched	Tranched	
CDXIG S09	794,674	609,535	15,309	1,764	1.93%	0.29%	
iTraxx MN S09	616,379	517,046	13,460	N/A	2.18%	N/A	
CDXIG \$18	333,402	N/A	141,462	N/A	42.43%	N/A	
iTraxx MN S16	296,060	N/A	4,908	N/A	1.66%	N/A	
iTraxx MN S17	307,024	N/A	122,968	N/A	40.05%	N/A	
CDXIG S17	240,714	1,998	10,196	20	4.24%	1.00%	
CDXIG S16	179,638	N/A	563	N/A	0.31%	N/A	
CDXIG S15	175,372	8,303	658	N/A	0.38%	N/A	
CDX HY S17	72,924	550	2,723	209	3.73%	32.18%	
CDXHYS10	70,470	47,280	603	245	0.85%	0.52%	
iTraxx XO S16	64,662	N/A	309	N/A	0.48%	N/A	
iTraxx XO S17	68,560	N/A	32,567	N/A	47.49%	N/A	
CDX HY S09	53,980	35,413	232	80	0.43%	0.23%	
Traxx FinSub S17	24,375	N/A	2,767	N/A	11,35%	N/A	

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Source: DTCC (week ending 5/11/12)

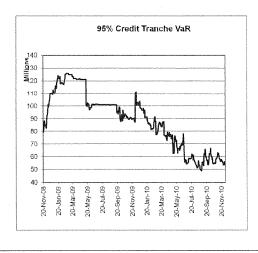
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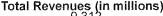
### **Tactical Positioning**

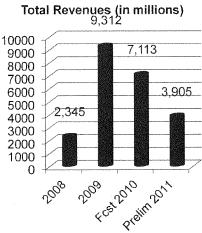
- CIO positions tactically to complement the core investment portfolio.
- One example is a synthetic (or derivative) credit position established in 2008 to protect the Firm from the anticipated impact of a deteriorating credit environment.
- As credit spreads widened, CIO adjusted the position to capture value as credit markets stabilized.
- These positions reached a maximum 95% VaR of approximately \$125mm in early 2009, and have since been de-risked to a current VaR level of approximately \$55mm, with some further risk reduction anticipated.
- Tactical credit strategies have contributed approximately \$2.8bn in economic value from inception, with an average annualized RoE of 100%.



OCC-SPI-00135422

- ClO's expertise and product suite have been developed and expanded to produce absolute returns through all business cycles.
- Some volatility of earnings should be expected throughout cycles, particularly at extremes.
- Very low expense base of approximately \$300mm, coupled with high returns, produces overhead ratios that range from 3% - 10%.





### Regulatory Reform

- CIO activities are not expected to be significantly impacted by Financial Regulatory Reform, although sophisticated approach to structural risk management and investment of cash will require careful explanation to regulators.
- CIO does not maintain "trading accounts" as defined by Volcker rule:
  - Intent is not to buy and sell to benefit from short-term price movements.
  - Activities are restricted to transactions that are clearly and transparently associated with the Firm's underlying structural risks, and all activities are documented as such.
- Private equity investing will be impacted:
  - Existing investments were planned to roll-off prior to effective date of the rules in any case.
  - □ New investments in Private Equity will most likely not be permitted in CIO
  - Retirement Plan investments in private equity and hedge funds are expected to be excluded from restrictions.
- Engaging in preliminary discussions with regulators and Department of the Treasury, in coordination with Firm-wide regulatory reform working group.

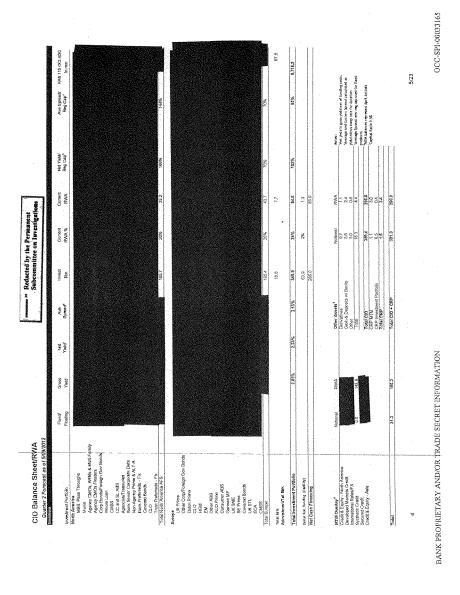
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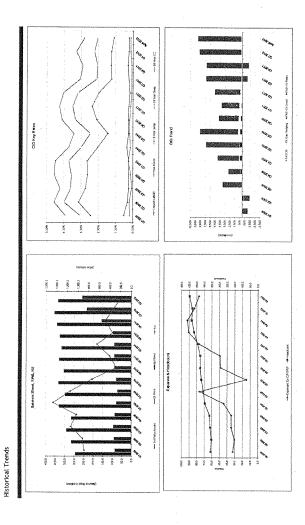
CHIEF INVESTMENT OFFICE - EXECUTIVE MANAGEMENT REPORT

April 2012









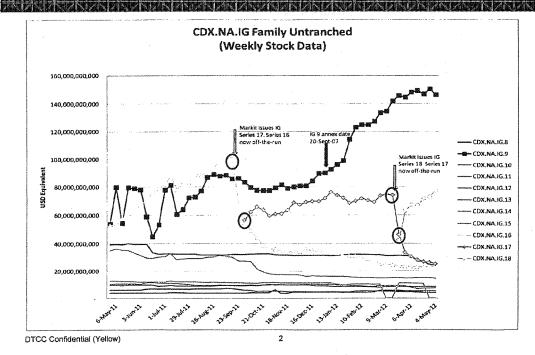
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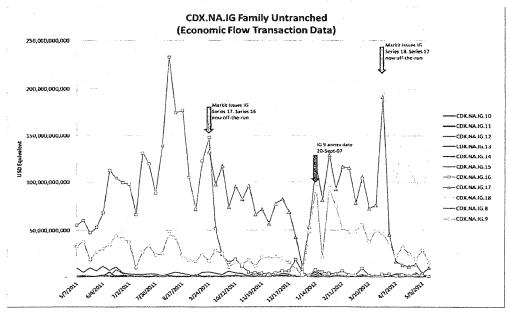
# Case Study Overview

- The JPM mispricing of CDX indices "London Whale" incident provides an
  opportunity to determine if existing public and regulatory reporting identifies
  these anomalies in the marketplace.
- Since this is a look back it is important to note that finding the anomaly is much easier when you know what to look for. Transforming data into information is key for regulators to anticipate and detect the risks in the system.
- Utilizing data from DTCC's Trade Information Warehouse (TIW) to reconstruct the time series of publically reported data that identifies the anomaly in the reported data.
- Additionally, through the regulator portal—further transaction and position detail regarding the parties trading in the CDX and ITRAXX indices are made available to the market and prudential regulators

# Stock Data | Investment Grade Time Series



## Economic Turnover Volume | Investment Grade Time Series



DTCC Confidential (Yellow)

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FEBRUARY 6, 2009

## Agenda

Introduction to Collateralized Debt Obligations (CDOs)	Pag
introduction to contace anzea best obligations (CDCs)	
Introduction to Credit Default Swaps (CDS)	15
CDS Indices - ABX, TABX, CDX, and iTraxx	20

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## What is a Collateralized Debt Obligation (CDO)?

### Basic Features

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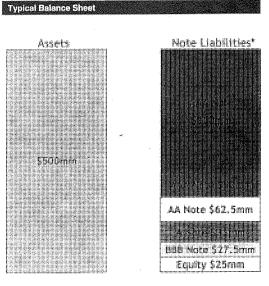
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- A CDO is comparable to a finance company:
   Borrows money (liabilities)
   Acquires an investment portfolio (assets)
   Has residual value (equity)
- The equity of a CDO (in the form of either preferred shares or unsecured subordinated notes) represents an ownership stake in the CDO and a first-loss position in its asset portfolio
- The CDO's assets are typically managed by a professional asset manager
- Whether the liabilities can be repaid or not depends on the performance of the portfolio and asset manager
- Through credit enhancement (in the form of structural subordination) and structured cashflows, CDOs are able to issue tranches of debt that are rated higher than the assets in the collateral pool



^{*}Other liabilities include management fees and other expenses. However, additional debt issuances are strictly limited.

 ${\it J.P.Morgan}$ 

## What is a Collateralized Debt Obligation (CDO)? (cont'd)

#### Structure

- A CDO is a securitization transaction in which a special purpose vehicle (SPV) -- typically an offshore entity -issues securities to fund its acquisition of a portfolio of financial assets, which is either static or managed
  - In a managed CDO, a professional asset manager appointed by the CDO selects the initial portfolio and may trade in and out of assets during the life of the CDO
  - In a static CDO, no portfolio assets are traded during the CDO's life
- A CDO may purchase actual securities or loans (of a variety of asset classes) or it may obtain exposure to credits by entering into credit default swaps (CDS) that reference those credits
  - Cash CDO: its portfolio consists primarily of actual securities or loans
  - Synthetic CDO: its portfolio consists primarily of CDS (a portion of its liabilities may also be CDS)

    Hybrid CDO: its portfolio may consist of either cash positions or CDS (a portion of its liabilities may also be CDS)
- CDOs may be classified based on the way their structures protect their debt tranches from credit losses:
  - Market value CDO: if the "haircut" market value of the CDO's assets falls below debt tranche par, its assets must be sold and its debt paid down until the haircut asset value exceeds debt tranche par; ultimate repayment of principal of its debt tranches depends on the CDO manager's ability to liquidate assets prior to their maturity
  - Cashflow CDO: the CDO's subordinated tranches are sized so that after-default cash flows from its assets are expected to be sufficient to pay principal and interest in respect of its debt tranches, based on assumptions about default probability, default correlation and severity of loss

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## What is a Collateralized Debt Obligation (CDO)? (cont'd)

#### Structure

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BLIGATIONS

■ CDOs may be further classified based on the motivation for securitization and source of assets:

Balance sheet CDO: the CDO's sponsor is a holder of securitizable assets (e.g., a commercial bank) that desires to sell or transfer the risk of those assets to shrink its balance sheet or reduce required regulatory or economic capital

The sponsor may transfer assets to the CDO through cash sales or synthetically through derivatives; typically the sponsor transfers the entire portfolio at closing

Balance sheet CDOs are almost exclusively cashflow structures with static portfolios

Deal sizes may be as large as \$5-10 billion

Arbitrage CDO: the CDO's sponsor is an asset manager that wishes to increase its assets under management and receive fee income for managing the CDO's portfolio, and the CDO's equity tranche investors (which may include its asset manager) wish to achieve a leveraged return between the after-default yield on its assets and the financing costs of its debt tranches (the difference between the leveraged return and debt financing costs is the CDO's "arbitrage")

The CDO's assets may be synthetic or cash and are purchased in the open market - its portfolio may not be fully "ramped up" at closing

Deal sizes range from \$250-500 million to greater than \$1 billion

In general synthetic deals tended to be larger due to ease of "ramp up"

In general CDOs backed by higher credit quality assets tended to be larger due to relative ease of debt distribution

## Participants and roles in Arbitrage CDOs

### Managers

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NTRODUCTION

- The manager is the sponsor of the CDO and receives fees for its services
- The manager is responsible for selecting the assets for the portfolio, determining prices paid for the assets and managing the pool over time through reinvestment, trading or hedging
- Managers can be traditional money mangers, hedge funds, REITs or structured finance professionals devoted to CDO management

#### Investors

- Investors want exposure to the underlying assets on a tranched or leveraged basis
- Investors evaluate the investment guidelines for the CDO and perform due diligence on the manager's qualifications
- Typical investors in CDOs range from hedge funds to banks and insurance companies
- Since CDO securities are privately offered, there are restrictions on investors who are eligible:
  - In the US: qualified purchasers that are either qualified institutional buyers or accredited investors
    Outside the US: persons eligible to purchase under local law and in transactions pursuant to Reg S

#### Rating Agencies

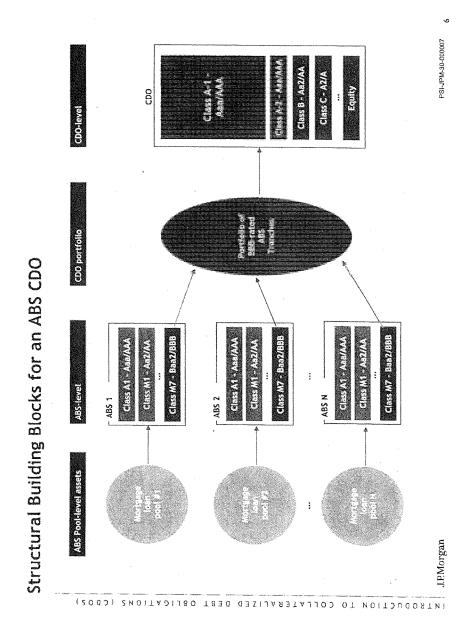
- Rating agencies analyze the CDO's investment criteria and liabilities structure to rate the debt issued by the CDO
- Rating agencies establish criteria that sets forth their requirements for credit quality and structures
- Typically a CDO will have ratings from two of S&P, Moody's or Fitch for each debt tranche; however, a CDO could issue unrated tranches or be rated by a single agency only
- Rating agencies are paid to provide initial ratings and provide ongoing surveillance as long as the rated debt remains outstanding

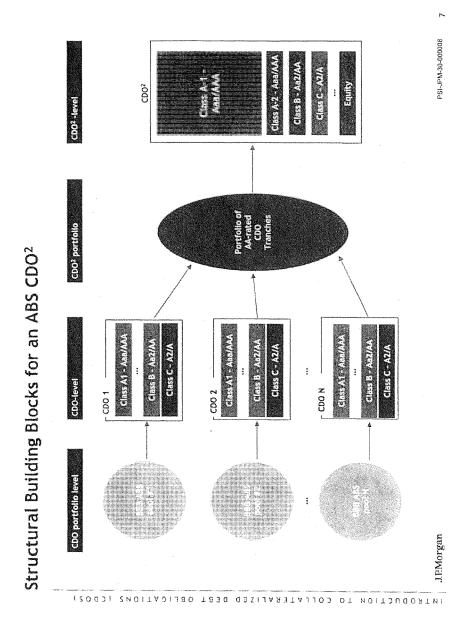
#### Trustee

- The CDO appoints a trustee to hold its assets as collateral for the benefit of the holders of its debt
- Frequently the trustee also provides administrative services to the CDO Issuer such as accounting and reporting services for investors

## Arranger, Placement Agent/Underwriter and Warehouse

- The manager engages a broker-dealer to arrange and structure the CDO and distribute its securities
- Oftentimes, to facilitate the manager's acquisition of assets for the CDO before closing, the broker-dealer or one of its affiliates will extend a warehouse facility to accumulate assets at the manager's direction.





## Cashflow CDO Collateral Types

Cashflow CDO Coll	ateral Types		
CDO Type	CDO Subtype	Typical Asset Mix	Typical Leverage
СВО	Investment Grade	Investment grade	AAA = 90%
		Corporate Bonds	Equity = 5%
CLO	annen mildri i vallindi. Sandikkon vanadrika annen manife normakan saka a kola kulukularina monen men	Corporate loans	AAA = 70%
			Equity = 10%
ABS	High Grade	AA/Aa2 portfolios of ABS	AAA = 90%
			Equity = 0.50%
	Mezzanine	BBB/Baa2 portfolios of ABS	AAA = 60%
	-		Equity = 5%
CRE	Securities	Mix of CMBS	AAA = 70%
			Equity = 5%
	CRE Loan	Commercial Loans (both	AAA = 60%
		whole loans and subordinate debt)	Equity # 15%
CDO^2	ABS	ABS CDOs	AAA = 80%
			Equity = 5%
	CLO	CLOs	AAA = 75%
*			Equity = 5%

Note: These descriptions are generalizations. Actual collateral and leverage will vary from deal to deal depending on a variety of factors.

INTRODUCTION

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OBLIGATIONS

DEBT

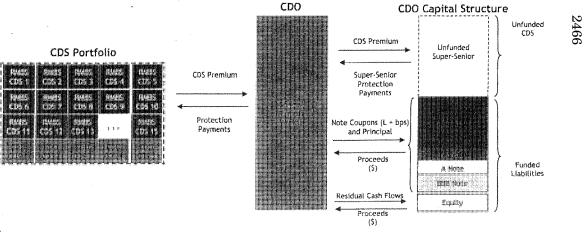
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INTRODUCTION

## Synthetic CDOs

- Synthetic CDOs obtain exposure to assets synthetically, by entering into CDS referencing those assets
- Synthetic CDO portfolios may be either static or managed
- Synthetic CDO portfolios tend to be investment grade (Baa1) compared to traditional Cash CDO high yield collateral (Ba or single-B)
- High quality Synthetic CDO collateral allows for a very large, unfunded portion of Synthetic CDO liabilities (the "Super Senior tranche"), which cheapens overall liabilities
- The Super-Senior tranche's credit quality is assumed to be better than AAA-rated



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PSI-JPM-30-000010

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## **Hybrid CDOs**

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OBLIGATIONS

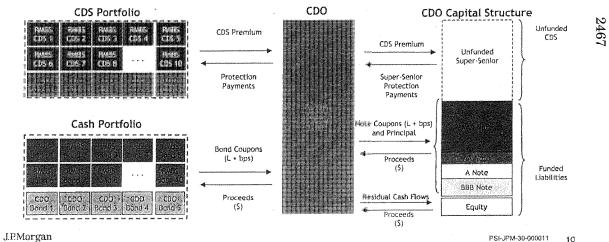
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INTRODUCTION

- Hybrid CDOs acquire portfolios that include a mixture of cash loans, securities and CDS referencing specific credits
- # The mixture of cash and synthetic assets can vary significantly over time at the manager's discretion
- » A portion of the proceeds from the funded tranches is invested in cash assets and the remainder is held in reserve (often in the form of a GIC or a reserve account) to cover payments that may be required under the CDS
- The CDO receives payments from three sources:
  - Return from its cash assets
  - Reserve account investments
  - CDS premiums



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### $CDO^2s$

(CDOS)

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INTRODUCTION

- A CDO² is structurally no different than an ordinary CDO
- Like other arbitrage CDOs, CDO² are typically managed by an asset manager that selects the assets and manages the risk of the portfolio
- The principal difference between a CDO and a CDO² is simply that CDO² assets primarily are other CDO securities
- The rating process, cash flow mechanics and overall structure is similar to other CDOs, but the risks are very different
  - Additional structural leverage
  - More sensitive to changes in underlying asset performance
  - Increased complexity
  - Limited liquidity
  - End investor further removed from the originated risk

## Cashflow CDO Analytics

Cashflow CDO credit risk is determined by three factors:

#### Default Probability

How likely is it that the assets will default over the life of the CDO?

#### Default Correlation

- How diverse is the CDO portfolio, in terms of (1) industries concentration, (2) geography, (3) severity, (4) number of credits, (5) rating of credits and (6) other factors depending on the asset class?
- Default Severity

How much loss can the various CDO tranches withstand?

- Generally, rating agencies compare losses under various default scenarios to required "break-even losses" to determine CDO debt tranche ratings and sizes
  - For instance, a 10-yr CDO tranche must withstand an expected loss of less than 0.0055% to be rated Aaa by Moody's, less than 1.43% to be rated Baa1, and so on down the credit curve
  - The rating agencies use their proprietary models to analyze the assets and generate stressed cashflows
- Cashflow CDOs are subject to periodic compliance tests that measure the deal's ability to pay interest and principal to CDO debt investors
- If the CDO fails certain tests, the CDO's cash flows are redirected to amortize its debt

Some tests employed by typical Cashflow CDOs are:

- Over-Collateralization (O/C) Tests (ability to pay CDO debt tranche principal at maturity)
- Interest Coverage (I/C) Tests (ability to pay CDO debt tranche interest each period)

Caa Concentration Test (restricts the number of Caa-rated assets than can be held without penalty)

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## Cashflow CDO Analytics (cont'd)

- In cashflow CDOs, O/C and I/C Tests are calculated periodically (typically monthly or quarterly) to monitor collateral deterioration
- Below we illustrate the calculation of these ratios

O/C Test	I/C Test
----------	----------

#### Asset Par

#### CDO Tranche Par

- M Asset Par: the par of non-defaulted assets
- CDO Tranche Par: the current par aount of the CDO tranche + the current par amount of all tranches senior to the tranche
- The O/C test measures the amount of asset par "cushion" protecting a tranche

For example:

Total Asset Par = \$500mm Class AAA Par = \$300mm Class AA Par = \$60mm Class AA O/C = 500/(300+60) = 139%

#### Asset Coupon

#### CDO Tranche Coupon

- Asset Coupon: the sum of the interest received from the assets
- CDO Tranche Coupon: the required coupon of the CDO tranche + the required coupon of all tranches senior to the tranche
- The I/C test measures the amount of extra interest available for a given tranche

For example:

Total interest received: \$6mm Class AAA Interest Payable = \$2mm Class AA Interest Payable = \$2mm Class AA O/C = 6 /(2+2) = 150%

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OBLIGATIONS

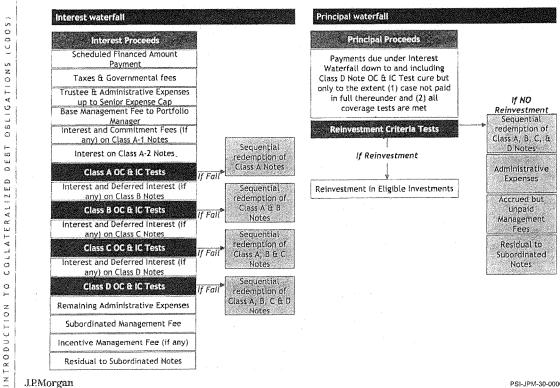
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## Cashflow CDO Payment Waterfalls (cont'd)



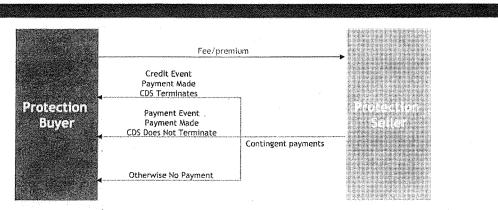
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# Agenda

Introduction to Collateralized Debt Obligations (CDOs)	Page
Introduction to Credit Default Swaps (CDS)	15
CDS Indices - ABX, TABX, CDX, and iTraxx	20

SENATE PERMANENT SUBCOMMITTEE ON INVESTIGATIONS

# Credit Default Swaps



- In exchange for a fee (either an up-front premium, an on-going fee, or a combination) the Protection Seller agrees to make payments to the Protection Buyer upon the occurrence of credit or payment events relating to the reference entity or obligation
- Upon a credit event, the Protection Buyer can elect to settle via physical delivery of a deliverable obligation or via cash settlement through an auction process
- CDS on CDOs and MBS typically allow for physical delivery of the reference obligation
- CDS contracts can reference both bonds and loans

DEFAULT

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INTROBUCTION

## Credit Default Swaps (Cont.)

#### Typical CDS Clients

- Protection Buyers
  - Hedging credit exposure
  - Investors expressing a view on a reference entity's credit prospects
- Protection Sellers
  - Leveraged investors
  - Structured finance vehicles
- Dealers

(CDS)

SWAPS

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INTRODUCTIO

Intermediate flow between Protection Buyers and Protection Sellers

#### Credit and Payment Events

- Most widely used credit events for CDS trades on investment grade corporates today:
  - Bankruptcy
  - Failure to pay
  - Restructuring
- In addition, CDS on ABS and CDOs typically follow a "pay-as-you-go" convention where payment events other than default trigger a payment from the Protection Seller to the Protection Buyer
- Reference Obligation that misses interest payments cause the Protection Seller to reimburse the Protection Buyer the amount related to the shortfall
  - After a payment event, the CDS contract continues without termination and settlement
- Credit events on CDS of MBS and CDOs typically include:
  - Bankruptc
  - Failure to pay principal (typically only on the maturity of the reference obligation)
  - Distressed ratings downgrade (ratings fall to a specified level)

## The Basic Contract: A Credit Default Swap (Cont.)

#### Deliverable Obligations Characteristics

- If a credit event occurs, the Protection Buyer can elect to settle via physical delivery of a deliverable obligation or via cash settlement through an auction process
- If the Protection Buyer elects to deliver an obligation:
  - The Protection Buyer can choose, within certain limits, what obligation to deliver
  - The CDS contract states what kind of obligations (payment, bond, and/or loans) can be included
  - The CDS contract also states the characteristics (subordination level, currency, denomination, listed/non-listed, etc.) of the obligation

SWAPS (CDS)

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### Cash Settlement and the Protocols

#### ISDA Basics

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INTRODUCTION

- Often times, the CDS exposure often greater than aggregate amounts of cash obligations available, making physical delivery problematic. For example:
  - Collins & Aikman: \$500 million of available bonds vs. \$1 billion in CD\$
  - Delphi: \$2 billion in available bonds vs. \$25-30 billion in CDS
- To prevent settlement issues, the ISDA Protocol was developed
  - ISDA Protocol permits rapid amendment of existing CDS documentation to allow settlement at a single Final Price for all adhering parties
    - ISDA Protocol ensures that the Final Price is reflective of market value of the defaulted entity's obligations, taking into account CDS parties' net physical settlement requirements
- Allow bonds to be traded to permit "physical settlement" at Final Price
  - Bonds can be bought or sold in the auction to allow participants to finish with same bond position they would have had under physical settlement
  - Ensures resulting position from original settlement mechanism is effectively preserved for those who desire it
- ISDA publishes standard amendment terms
- To effect an amendment, two parties simply have to "adhere" to the Protocol by sending their notice to ISDA prior to the cut-off date. An adhering party automatically amends its ISDA Master (or related documentation) with any other adhering party



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## Agenda

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CDS Indices - ABX, TABX, CDX, and iTraxx	20

SENATE PERMANENT SUBCOMMITTEE ON INVESTIGATIONS

### The CDS Indices - ABX.HE and TABX.HE

- Both the ABX.HE and TABX.HE are static portfolios of CDS of subprime RBMS that serve as liquid instruments for trading subprime credit risk
- ABX.HE Asset Portfolio Highlights

Portfolios reference 20 bonds of subprime RMBS

Assets are homogenous by risk profile (initial ratings)

Assets are originated in a 6-month time frame

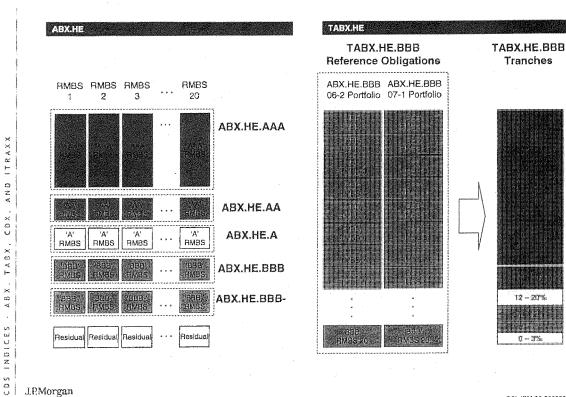
- Asset selection
  - Aggregate a list of the largest volume subprime RMBS issuers
  - Select two representative transactions from each issuer index participants vote on transactions to be included in each index
- TABX.HE Asset Portfolio Highlights
  - Portfolios reference 40 bonds from two ABX.HE indices

Assets are all subprime RMBS

- Assets are homogenous by risk profile (initial ratings)
- Assets are originated in a one-year time frame

COX,

### The CDS Indices - ABX.HE and TABX.HE (Cont.)



### The CDS Indices - CDX, iTraxx, ABX and TABX

- The CDS indices are static portfolios of CDS that serve as liquid instruments for trading credit risk CDX indices allow investors to express a view on the market as a whole (avoid idiosyncratic single-name risk) Unlike single-name CDS, each index contract is exactly like every other index contract (reference entities, payment dates, fixed coupon) and thus can be easily traded Different indices provide exposure to a broad range of industries and credit
- Markit Group is the dealer appointed administrator and calculation agent for both CDX and iTraxx
- Protection Buyer pays a fixed coupon (the sum of the fixed rates of each of the component CDS contracts)
- Protection seller pays upon credit events (just like single-name CDS)
- Coupon is sum of fixed rates on each component
- Each index reconfigured with new names every 6 months

AND ITRAXX

CDX,

### The CDS Indices - CDX

### DJ CDX North America High Yield Index

Static portfolio of 100 equally weighted high yield CDS entities domiciled in North America

Index constituents are based on votes from eligible CDS members

New series of DJ CDX HY issues every 6 months (March & September) and the underlying reference entities are reconstituted based on member votes

Standard maturities will be 5 and 10 years for the notes and swaps

### DJ CDX North America investment Grade Index

Static portfolio of 125 equally weighted investment grade CDS entities domiciled in North America

Index constituents are based on votes from eligible CDS members

New series of DJ CDX IG issues every 6 months (March & September) and the underlying reference entities are reconstituted based on member votes

Standard maturities will be 1, 2, 3, 4, 5, 7 & 10 years for the notes and 5 and 10 years for the swaps

### DJ CDX Emerging Market Index

- Static portfolio of 14 equally weighted emerging market sovereign issuers
- Index constituents are based on votes from eligible CDS members
- . New series of DJ CDX EM issues every 6 months (March & September) and the underlying reference entities are reconstituted based on member votes
- Standard maturities will be 5 and 10 years for the notes and swaps

### DJ CDX Emerging Market Diversified Index

Static portfolio of 40 sovereigns and corporates

New series of DJ CDX EM issues every 6 months (March & September) and the underlying reference entities are reconstituted based on member votes

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NDICES

### The CDS Indices - iTraxx

### # iTraxx Europe (Main Index)

Static portfolio of 125 equally weighted CDS on European entities

Rules based construction based on CDS volumes by dealer poll

New series of iTraxx Europe is issued every 6 months (March & September) and the underlying reference entities are reconstituted Standard maturities will be 5 for the notes and 5 and 10 years for the swaps

### # iTraxx Japan

Static portfolio of 50 equally weighted CDS on Japanese entities

Rules based construction based on CDS volumes by dealer poll

New series of iTraxx Japan is issued every 6 months (March & September) and the underlying reference entities are reconstituted Standard maturities will be 5 for the notes and 5 and 10 years for the swaps

### iTraxx Australia

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CDX,

oo ≪ Static portfolio of 25 equally weighted CDS on Australian entities

Rules based construction based on CDS volumes by dealer poll

New series of iTraxx Australia is issued every 6 months (March & September) and the underlying reference entities are reconstituted Standard maturities will be 5 for the notes and 5 and 10 years for the swaps

### iTraxx Asia ex-Japan

Static portfolio of 30 equally weighted CDS on Asian entities excluding Japan

Divided into 3 regional sub-indices: Korea, Greater & Rest of Asia

Rules based construction based on CDS volumes by dealer poll

New series of iTraxx Asia ex-Japan is issued every 6 months (March  $ilde{ ilde{E}}$  September) and the underlying reference entitles are reconstituted

Standard maturities will be 5 for the notes and 5 and 10 years for the swaps

J.P.Morgan

### WILMERHALE

Reginald J. Brown

+1 202 663 6430(t) +1 202 663 6363(t)

December 7, 2012

### By Hand

Hon. Carl Levin, Chairman
Hon. Tom Coburn, Ranking Member
Permanent Subcommittee on Investigations
Committee on Homeland Security and Governmental Affairs
United States Senate
SR-199 Russell Senate Office Building
Washington, D.C. 20510-6262

Dear Chairman Levin and Ranking Member Coburn:

We represent J.P. Morgan Chase & Co. ("J.P. Morgan") and submit this letter on J.P. Morgan's behalf in response to the Permanent Subcommittee on Investigations' ("PSI") subpoena dated August 6, 2012 (the "Subpoena").

Please find enclosed an encrypted CD containing a document bearing Bates numbers JPM-CIO-PSI 0037504. This production is being provided in response to the Subpoena, and a November 28, 2012 request from PSI Staff for data on the size of the Synthetic Credit Portfolio. Today's production includes a spreadsheet reflecting the requested data as of January 3, 2011, December 30, 2011, March 30, 2012, and June 29, 2012. Please note that January 3, 2011, is provided as a proxy for year-end 2010 as the system this data was generated from only contains information from January 1, 2011.

Further, in response to a November 30, 2012 request from PSI Staff, based on consultation within J.P. Morgan, we understand that the Global CIO MTM CS BPV (CS01) limit was \$5,000,000 from mid-August 2008 through early-May 2012, when it was deactivated because management determined the limit was no longer valid in terms of measuring the risk appropriately.

We hope this information is helpful to you and the PSI Staff. The password for the encrypted CD will be communicated to the PSI Staff by a separate communication.

Wilmer Cutler Pickering Hale and Dorr LE, 1875 Pennsylvania Avenue NW, Washington, DC 20006
Beying Berlin Boston Brusseis Frankfurt London Los Angeles New York Oxford Palo Alto Waltnam Washington

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PSI-JPMC-24-000001

Hon. Carl Levin, Chairman Hon. Tom Coburn, Ranking Member December 7, 2012 Page 2

We respectfully request that the produced documents be maintained confidentially under Senate Rule XXIX.5 and not be released publicly without a majority vote of the PSI. We further request that the PSI staff provide the undersigned with notice and an opportunity to be heard in the event the PSI determines that it will disclose any information from this production or letter to a third party. Such treatment would be consistent with the respect for privileged and confidential information that the Subcommittee has shown in the past. This production is not intended to waive any applicable privilege or protection. If it were found that any of the produced documents constitutes disclosure of otherwise privileged matters, such disclosure would be inadvertent.

Please contact me (202-663-6430) or Ross Kirschner (202-663-6021) if you have any questions.

Sincerely,

Reginald J. Brown Ross Kirschner

Enclosure

Schram, Zachary (HSGAC) Robertson, Mary (HSGAC) From: To: Murphy, Allison (HSGAC) Subject: FW: CIO clawbacks

Wednesday, January 16, 2013 1:54:06 PM Date:

Hi Mary,

Please log this communication from Reg re: JPM.

Thank you!

From: Brown, Reginald [mailto:Reginald.Brown@wilmerhale.com]
Sent: Wednesday, January 16, 2013 1:52 PM
To: Schram, Zachary (HSGAC)
Cc: Kirschner, Ross K.
Subject: RE: CIO clawbacks

Zack,

J.P. Morgan has recovered the maximum clawback from Ms. Drew, Mr. Macris, Mr. Javier-Artajo, Mr. Iksil, and Mr. Grout. This was accomplished through a combination of canceling outstanding incentive awards and repayment of awards previously paid.

Reg

From: Schram, Zachary (HSGAC) [mailto:Zachary Schram@hsgac.senate.gov] Sent: Monday, January 14, 2013 10:40 AM

To: Brown, Reginald Subject: CIO clawbacks

Reg,

What is the status of the clawbacks for Ms. Drew, Mr. Macris, Mr. Javier-Artajo, Mr. Iksil, and Mr. Grout?

Thanks for your help.

-Zack-

From: Kirschner, Ross K. [mailto:Ross.Kirschner@wilmerhale.com] Sent: Sunday, March 03, 2013 9:04 PM

To: Schram, Zachary (HSGAC)
Cc: Brown, Reginald

Subject: RE: Crossing the t's

Zack,

Our understanding from the Bank is that the difference between the two CS BPV numbers asked about represents a revision posted by the CIO middle office to their limit utilizations between the time the limits were extracted for the limit breach notification email (the contents of the PDF with the Bates ending 1832) and when the Division Limits document (the Excel spreadsheet with the Bates ending 37536) was extracted from the system. The CIO North America desk had originally uploaded a value of -424,000 against that limit and then on February 22, they changed it to +424,000. The change was made because they initially uploaded CS01 per Credit Spread tightening, but it was retroactively corrected after confirmation that it should have been per Credit Spread widening. That flip of \$424,000 accounts for the entire \$848,000 difference.

Thanks, Reg and Ross

From: Schram, Zachary (HSGAC) [mailto:Zachary Schram@hsgac.senate.gov]
Sent: Sunday, March 03, 2013 8:38 PM
To: Kirschner, Ross K.

Subject: Crossing the t's

Ross,

If you recall, we spotted a discrepancy in the limit utilizations between contemporaneous documents, including JPM-CIO-PSI 0001832, and the utilization spreadsheets you later produced. You explained the source of the discrepancy, but I would like to have something in writing I can cite to. Can you email me the explanation?

Thanks,

-Zack-

# OCC Large Bank Supervision JPMorgan Chase Bank, N.A.

Permanent Subcommittee on Investigations - Chief Investment Office Discussion

# Large Bank Supervision

Large Bank Supervision is driven by requirement that at any quarter, risk assessments and ratings must be current and accurate (Large Bank Supervision Handbook)

- Understand the company's strategies and business activities
- Identify the risks and related controls at the bank, for key products, and activities/lines of business
- Assess levels of inherent risk, quality of risk management, aggregate risk, and the direction of aggregate risk

*Generate Core Assessment and Quarterly RAS

# Examinations/Assessments

- Mostly Risk-Based, focusing on
  - High risk products, markets, and activities
  - Weak management
- Some legally required
  - BSA/AML (even if not high risk)
  - Flood
- Objectives
  - Validate our understanding of risk management
  - Assess the level and trend of risk
    - * We rely on bank MIS (CIO MIS was misleading)

## Communications

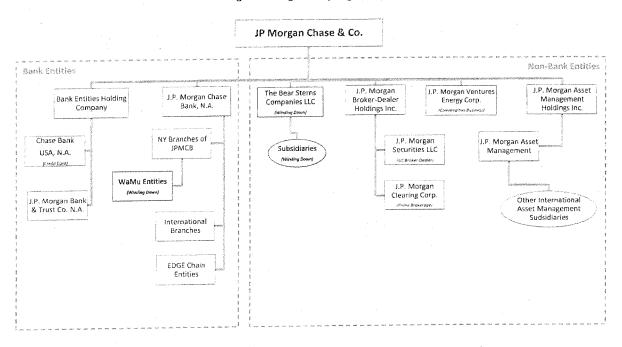
- Communicate findings, recommendations, and professional views to management and the board
  - ➤ Annual Report of Examination
  - > Supervisory Letters
  - > Verbal
- Communications range from positive feedback, informal discussions, moral suasion, Matters Requiring Attention (MRA), and informal and formal actions

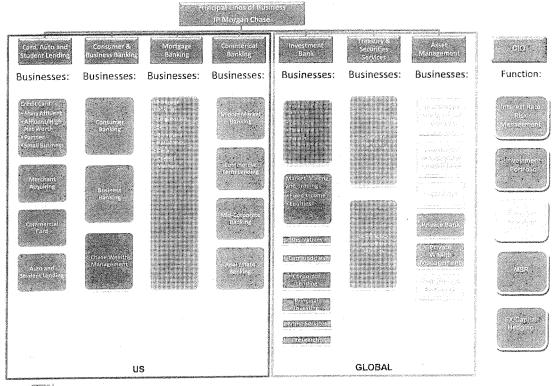
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# **Supervisory Strategy**

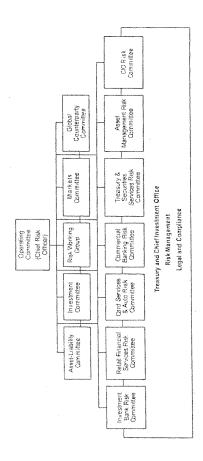
- Each team establishes its own supervisory plan that considers:
  - OCC/CBS Annual Supervisory Guidance
  - OCC Networking Group input
  - The Bank's inherent risks and management
  - Knowledge of the bank
    - · Team leaders and team routinely meet with
      - LOB CEOs and business management
      - Risk Management and compliance
      - Audit
- Deputy Comptrollers review each strategy, approve final product
- Adjustments during year: unplanned events/resource shortfalls

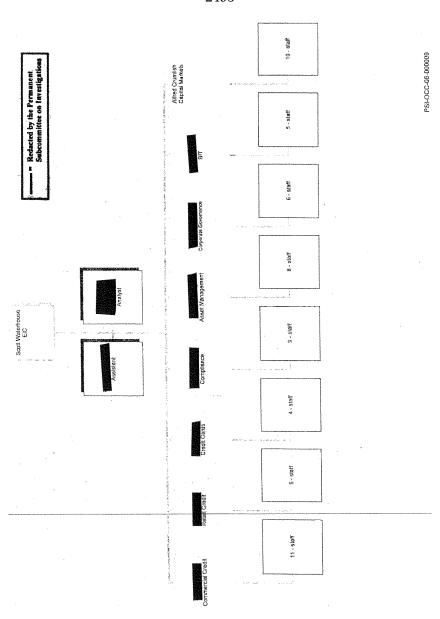
### High Level Legal Entity Organization





Bank Non-Bank Bank and Non-Bank





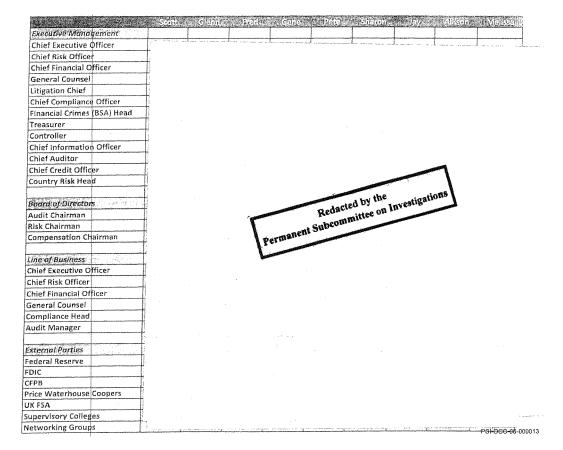
		Bank #FTEs					
	occ	Risk	T T	Internal	Line of		
Function	#FTES	Management	Compliance	Audit	Business		
Com. Credit / CRE	12	2100	748	50	31038		
Consumer CRE	3	937	331	60	46374		
Credit Cards	5	520		38	24541		
Other Retail	3			59	87210		
Total Retail	11	1457	331	157	158125		
Balance Sheet Mgmt.	3	15		50	417		
Trading	4	350		173	3000		
Total Capital Mkts.	7	365	0	223	3417		
Ops Risk	5	21		74			
Basel	2	18					
Internal Audit	2	·		NA			
Info Technology	. 6	974	. 0	35	26000		
Compliance	10		NA	117			
General / Other	7	700	431	91	56334		
Total	62	5635	1510	747	274914		

### JPMC Examinations

- OCC performs approximately 60 examinations per year at JPMC
  - Each typically lasts between three and six weeks, but sometimes longer
  - Each supervisory team will perform between three and 10 examinations per year
  - Examination teams are typically between four and six people that include relevant experience
    - Resident staff
    - RAD/Economists as appropriate
    - · Other agencies depending on circumstances
  - Some examinations scheduled purely for training purposes
  - Supervisory Letters are issued at the end of each examination

# **Ongoing Supervision**

- Monitor routine flows of board, management, risk management, and audit reports
  - Quality of reports is important
- We look at business performance, risk trends, regulatory policy adherence
- Communicate supervisory findings and expectations
- Follow-up on actions taken to correct deficiencies



# **Supervisory Letters**

- Supervisory Letters are issued to communicate supervisory findings
  - Examinations
  - Ongoing Supervision
- OCC issues approximately 75 per year at JPMC
  - Audit issues are documented in separate letters
    - · Semi-annual audit letter
  - Quarterly Management Report
- CEO and Audit Chairman are copied on every letter

# Matters Requiring Attention

- OCC Currently has approximately 120 MRA outstanding
- We average roughly one MRA per examination
  - Some turnover
- Some MRA take longer to correct, e.g.,
  - Model Validation Process
  - Basel II Implementation

# Capital Markets Supervision

- First Quarter 2012
  - Examinations
    - Model Validation Group completion (started 4Q11)
    - Commodities examination
    - Firmwide Stress
    - · Derivative Operations
    - · Credit Portfolio Group
    - Mortgage Capital Markets (started early April)
  - Ongoing supervision
    - Business and risk updates
    - Report of Examination
    - Core Risk Assessment
    - Supervisory Strategy

# Ongoing Supervision of CIO

- Risk-based focus
  - Investment portfolio
  - Interest Rate Risk
  - MSR
  - Stress test methodology

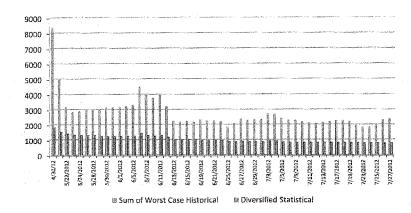
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# Synthetic Credit Portfolio

- Established in 2006/2007
- Objective
- Performance
- Evolution
- Risk Weighted Asset Calculation

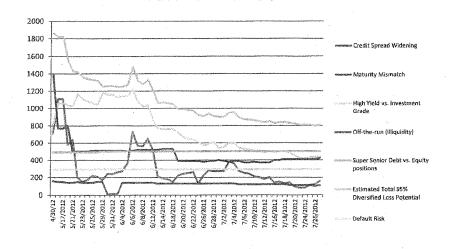
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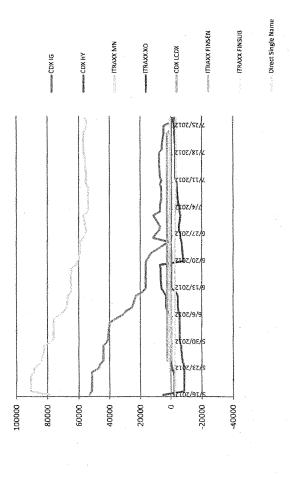
Note: On May 29, the bank disaggregated its High Yield versus Investment Grade risk estimates into Europe and US components. This disaggregation eliminated some portfolio effects and caused a higher estimated risk for the sum of worst case historical estimates. The April 30, 2012 figure was recalculated and revised upward.

# Statistical (95 Fergentile) Stress

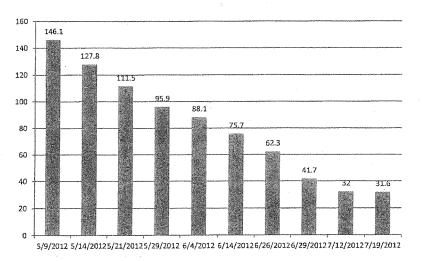


5-16-12 -- \$34 Billion trade with Blue Mountain
6-7-12 through - 6-12-12 -- \$10.6 Billion high yield positions moved to hedge existing risk
6-18-12 -- \$17 Billion option exercised by Blue Mountain

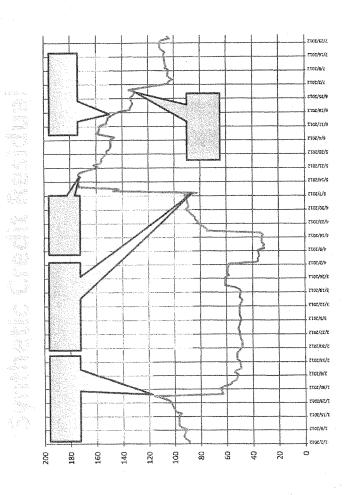






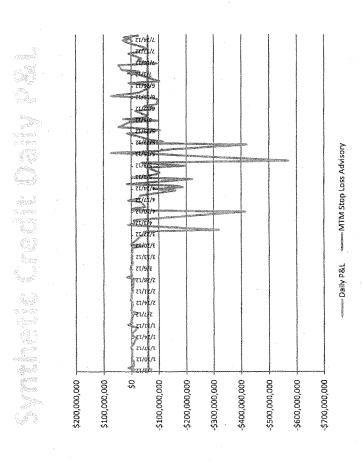


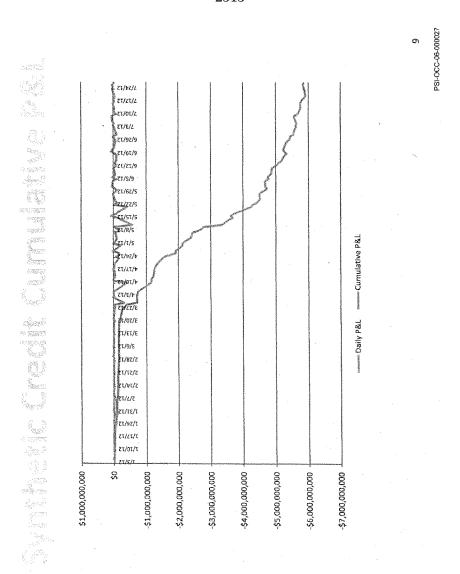




# Volue at Risk (VAR) - Update

- With move to IB, a new VaR model has been implemented for risk management purposes.
  - Developed in 2Q2012, for CIO's (now IB's) Synthetic Credit Portfolio as an improvement to CIO Basel 1 VaR model.
  - Approved on June 29th 2012 by Model Risk under new procedures; implemented July 2nd 2012
    - A spread VaR calculator customized to handle index positions w/o decomposition
    - The identical base correlation VaR calculator used by the IB for tranches
    - Based on analytics and time-series data from the IB
    - Intended to be consistent with Basel 2.5
  - Used for risk management and 10Q reporting.
    - Limits expected to be changed in line with new VaR numbers
  - OCC reviewing Index VaR and its approval
  - JPM will seek regulatory approval for use in Basel 1 Reg VaR





# 102012 Activity.

- CS01 increased for 12MM on February 8 to 21MM on February 15
- CSO1 Exposure nearly doubled again between March 14 and March 28 and 10% CSW went from positive 62MM to negative 140MM

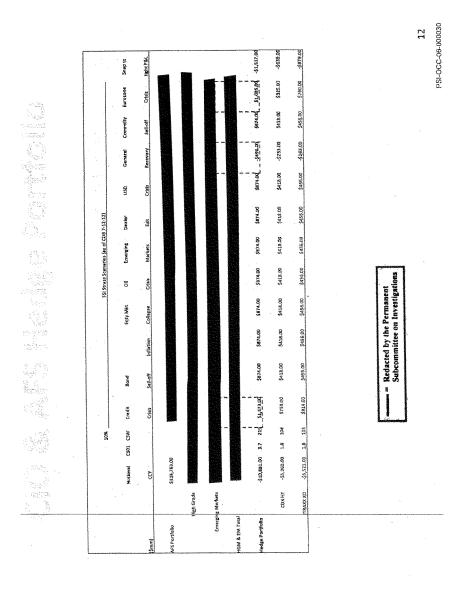
A	Ð	C	٥	E	F,
1	CS01	10% CSW	Daily PnL	Cum PnL	
2 01.04.12	(647.347)	<u> 170.711.591</u>	(9.40)	5) (11.737)	
3 01 11 12	(4 532 170)	129 661 183	22	3 (15.461)	
4 01.18.12	18 345 973	39 462 143	1,53	(19.737)	
5 01 25 12	(8.835 267)	22 639 789	(5.35)	)) (67 010)	
6 02.01.12	(12.436.734)	(27.488.407)	11.89	9 (88.469)	
7 02 08 12	(12 795 346)	17 364 555	(23.77-	4; (118.302)	
0 02.15.12	(21 193 030)	(51 910 361)	(3.31	0; (131.469)	
9 02 22 12	(22 276 628)	(26.316.839)	(5.25	9; (137 434)	
10 02 29 12	(26 102 334)	(20 290 657)	(14.74	1) (169 042)	
11 03 07.12	(24 811 085)	26,216,430	1 26	5 (148 514)	
12 03 14 12	(24 949 957)	52,319,618	(3.65	5) (156 474)	
13 03.21.12	(38.472.985)	(58.424.498)	70	2 (207 289)	
14 03.26.12	i47 263 507	(140 100 481)	(50.68	5) (349.483)	
15 04 04 12	(46 943 845)	167 613 684	(11.10	0; (728.565)	
16 04.11.12	(48 077 558)	(219 502 298)	(6 30	1) (1.159.726)	
17 04 18 12	(49.506.303)	(233 870 850)	(28 33	9) (1 270 971)	
18 04 21 12	(50 190 567)	(273 401 310)	(32.23	6) (1 332 447)	
19					
20					
24					

10

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# lipdate on 102012 Activity

- Significant notionals were put on in mid January and mid February.
   However, directionality, curve steepness, and basis all moved against JPM.
- As presented by Wilmer Hale, large positions after mid-March may have been attempts by traders to "defend their positions."
- As presented by Wilmer Hale, P&L by mid to late March was not reflective
  of the real market as traders were not correctly marking their book. Under
  procedures at that time, independent price verification did not take place
  until March month-end, leading to significant realized losses at that time.



# JPM CIO Task Force

- Management reported the findings of its internal investigation to the regulators on July 11 and publically on July 13.
- Findings were consistent with the preliminary observations; however, the core issue
  was that CIO was not subjected to the same level of scrutiny as client facing
  businesses, causing a lack of effective challenge by senior management and the
  board. The task force's principal conclusions:
  - · CIO judgment, execution, and escalation in 1Q12 were poor
  - The level of scrutiny did not evolve commensurate with the increasing complexity of CIO activities
  - · CIO risk management was ineffective in dealing with the synthetic credit portfolio
  - · Risk limits for CIO were not sufficiently granular
  - Approval and implementation of CIO synthetic credit VaR model were inadequate
- The Board of Directors received the same presentation as investors prior to the call.

# OCC Examination Status

- · Coordinating examination work and subsequent requests with FRB and FDIC
  - All exam work is either "joint" or requires substantial coordination with various FRB and FDIC examiners.
  - Complexity of topic necessitates significant review of documentation and discussions with management.
- Status of specific examinations:
  - OCC Governance and Risk Management review nearing completion.
    - OCC work substantially complete for all areas except audit. (see below)
    - Need to discuss/confirm with results of FRB work
    - Currently reviewing corrective action as part of ongoing supervision
  - Model Control
    - Targeting completion of field work this week; however some meetings need to be schedule and information continues to be evaluated.
  - Audit coverage and adequacy
    - Work underway includes a review of detailed audit coverage, and audits own self assessment. OCC review of CIO audit work expected to be complete in 10 days
    - Completion contingent on status of JPM audit's internal evaluation
  - Valuation
    - OCC work began this week. Requires review of external audit work.
    - FRB participation to be determined.
    - Expect completion mid August.

# GCC Examination Status

- · Ongoing supervision
  - Evaluate corrective action in process
    - CIO Task Force
  - Evaluate book remediation
    - Three calls / week on legacy book, supported by MIS
      - Assessing ongoing impact on overall
    - Detailed processes for "legacy" book to be validated/tested in September 2012 examination, and "AFS hedge book" in October 2012 examination.
  - Evaluate new CIO mission and business processes
    - · Evaluate specific changes in CIO mission
    - Increase focus on new committee process; providing feedback
    - Detail processes to be validated/texted in October 2012 examination



John Hogan Executive Vice President Chief Risk Officer

January 11, 2013

CONFIDENTIAL TREATMENT REQUESTED

VIA EMAIL AND FEDERAL EXPRESS

Scott N. Waterhouse Examiner-in-Charge OCC Large Bank Supervision 1166 Avenue of the Americas, 21st floor New York, New York 10036

Re: JPM-2012-66 CIO Oversight and Governance Examination

Dear Mr. Waterhouse:

Attached please find the responses of JPMorgan Chase Bank, N.A. (the "Firm" or "JPMorgan") to OCC Supervisory Letter JPM-2012-66, Chief Investment Office ("CIO") Oversight and Governance Examination, dated December 12, 2012 (the "Supervisory Letter").

The attached responses detail the actions taken by the Firm to date to address the Matters Requiring Attention ("MRAs") identified in the Supervisory Letter. The attached also is intended to summarize and update you on those actions already described by the Firm in responses to previous OCC supervisory letters related to these matters.

The Firm acknowledges the OCC's criticisms of CIO oversight and governance, as well as the OCC's broader comments regarding the Firm's governance, risk management and control processes. JPMorgan takes oversight and governance matters very seriously, and is committed to continually evaluating and strengthening oversight, governance, and risk management and other control functions, not just in CIO but throughout the Firm.

Consistent with this commitment, JPMorgan has undertaken, and is in the continued process of undertaking, comprehensive steps to ensure that there is continuing effective management and Board oversight of all aspects of JPMorgan's business and operations, including implementing enhancements to risk and other control functions, establishing new control groups, committee

#### JPMorgan Chase & Co.

structures and firmwide positions, and improving the process for escalating issues to and communicating with senior management and the Board, as well as the OCC.

As detailed in the Firm's various responses to OCC Supervisory Letters over the past several months, the Firm has taken a number of actions to address specific weaknesses identified in prior OCC examinations regarding model approvals and risk weighted assets, audit coverage, VaR model and CIO risk management, and CIO valuation governance.

Further, as you know, the CIO Task Force is in the process of completing its report (the "Task Force Report"), which will provide additional detail regarding some of the matters discussed herein.

We believe that the efforts we have undertaken and, in some instances, are in the process of undertaking constitute a comprehensive and detailed response to the Supervisory Letter, and that upon full implementation, will fully remediate the issues you have raised. All action plans noted in this response letter will be tracked in our internal processes to ensure completion.

* * *

This information is being provided pursuant to the investigation and examination authority of the OCC, and JPMorgan respectfully requests that the information contained in this letter and the other documents referenced herein, as well as JPMorgan's responses to all previous OCC Supervisory Letters (in the aggregate referred to herein as the "Confidential Materials") be afforded confidential treatment under 12 C.F.R. § 19.181, 12 C.F.R. part 4, and the Freedom of Information Act (FOIA), 5 U.S.C. § 552. The transmittal of this information is not intended to, and does not, waive any applicable privilege or other legal basis under which information may not be subject to production. The Confidential Materials constitute trade secrets or confidential commercial information, and therefore such records are subject to the exemption from mandatory disclosure under Exemption 4 of the FOIA, 5 U.S.C. § 552(b)(4). In addition, the Confidential Materials are investigatory records obtained by the OCC in connection with a potential law enforcement proceeding, and therefore such records are subject, at least at present, to the exemption from mandatory disclosure under Exemption 7(A) of the FOIA, 5 U.S.C. § 552(b)(7)(A). See, e.g., NLRB Robbins Tire & Rubber Co., 437 U.S. 214 (1978) (disclosure of witness statements prior to a NLRB hearing would interfere with the proceedings under FOIA Exception 7(A)). Exemption 8 of the FOIA, 5 U.S.C. § 552(b)(8), protects from disclosure all materials, such as these, that are "contained in or related to an examination, operating, or condition report prepared by, on behalf of, or for the use of the OCC or any other agency responsible for regulating or supervising financial institutions. See, e.g., Gregory v. Federal Deposit Insurance Corp., 631 F.2d 896, 898 (D.C. Cir. 1980), quoting Consumers Union of United States, Inc. v. Heimann, 589 F.2d 531, 533 (D.C. Cir. 1978).

These Confidential Materials are submitted to the OCC with our request that they be kept in a non-public file and that only the staff of the OCC will have access to them. Should the OCC

Moreover, as the Confidential Materials pertain to the activities of JPMorgan and not to the activities of any federal agency, we believe the documents may be exempt from disclosure pursuant to Exemptions 6 and 7(C) of the FOIA, 5 U.S.C. §§ 552(b)(6) and (b)(7)(C), and protections available to JPMorgan under the Privacy Act of 1974, 5 U.S.C. § 552a. Disclosure may also be prohibited under 18 U.S.C. § 1905.

receive any request for these documents, pursuant to the FOIA or otherwise, JPMorgan requests that the undersigned immediately be notified of such request, be furnished a copy of all written materials pertaining to such request (including, but not limited to the request and any agency determination with respect to such request), and be given an opportunity to object to such disclosure. In addition, should the OCC be inclined to grant the request, it is our expectation that, pursuant to the procedures required by Exec. Order 12,600, 52 Fed. Reg. 23,781 (1987), and 12 C.F.R. part 4, we will be given ten business days' advance notice of any such decision to enable the Bank to pursue any remedies that may be available to it. In such event, we request that you telephone our General Counsel, Stephen Cutler, at 212-270-3220, rather than rely upon the United States mail for such notice. If the OCC is not satisfied that these Confidential Materials are exempt from disclosure pursuant to the FOIA, we stand ready to supply further particulars and request a hearing on the claim of exemption.²

We look forward to continuing to provide you with updates on the issues described herein and on the CIO matter in general. Please do not hesitate to contact us should you require any further information or clarification.

Sincerely,

Mr. John Hogan

Executive Vice President and Chief Risk Officer

cc: Jamie Dimon, Labe Jackson, Stephen Cutler, Frank Bisignano, Matthew Zames, Doug Braunstein, Marianne Lake, Ashley Bacon, Gregg Gunselman, C.S. Venkatakrishnan, Martha Gallo, Lauren Tyler, Joseph Sabatini, Kamy Kasap, Shannon Warren, Cynthia Armine, Mike Kelly (PwC), Dianne Dobbeck (FRB), Om Arya (FDI

The requests set forth in the preceding paragraphs also apply to any memoranda, notes, transcripts or other writings that are made by, or at the request of, any employee of the OCC (or any other government agency) and that (1) incorporate, include, or relate to any of the information described above provided to the OCC (or any other government agency); or (2) refer to any conference, meeting, telephone conversation or interview between (a) JPMorgan or any of its agents or counsel and (b) employees of the OCC (or any other governmental agency).

#### Matters Requiring Attention

Board and senior management supervision requires strengthening.

Redacted by the Permanent Subcommittee on Investigations

1.

#### Management Response

The Firm has identified management failures regarding oversight of CIO activities, among them the failure to provide sufficient information to the Board of Directors that would have allowed the Board to exercise more rigorous oversight over CIO. For example, the risks posed by the strategies being pursued in CIO's synthetic credit book were not appropriately elevated or brought to the attention of the Directors' Risk Policy Committee ("DRPC") and, therefore, were not elevated to the Board. As described in the Firm's responses to earlier supervisory letters, ¹ the Firm's Board and senior management have taken comprehensive steps to ensure that there is continuing effective engagement and oversight of all lines of business and other revenue or risk-generating activities across the Firm.

#### Firmwide Risk Self-Assessment

In May 2012, the Firm, under the guidance of its new Chief Risk Officer ("CRO"), mandated a self-assessment of the functions and effectiveness of the firmwide risk organization ("Firmwide Risk"). This entailed (1) a detailed self-assessment of all risk functions across all lines of business ("LOBs") and Corporate Risk functions; (2) the development of action plans to remediate issues identified; and (3) remediation of the issues identified.

At the same time, Firmwide Risk also launched an initiative to ensure that the issues identified within CIO did not exist elsewhere across the firm. Each LOB CRO and cross-LOB CRO reviewed the issues identified within CIO and was required to attest to the completion of any necessary remedial actions identified by the LOB review and to provide documentation supporting completion of the remediation. Each LOB CEO also was required to sign off on

See the Firm's October 5, 2012 response to Supervisory Letter #2012-33 (the "October 5 Letter"); the Firm's October 11, 2012 response to Supervisory Letter #2012-40 (the "October 11 Letter"); the Firm's December 4, 2012 response to Supervisory Letter #2012-52 (the "December 4 Letter"); the Firm's December 13, 2012 response to Supervisory Letter #2012-53 (the "December 13 Letter"); and the Firm's January 4, 2013 response to Supervisory Letter #2012-59 (the "January 4 Letter"). Each letter is attached and incorporated by reference herein.

completion of the action plan, along with the LOB's Risk Committee and the Firm's CRO and Deputy CRO. The main areas of focus for this review included: Model Governance & Implementation, Market Risk & Governance, and Risk Independence. In Model Governance & Implementation, the Firm focused on conducting an evaluation of material drivers of the Firm's VaR and broadening the model approval process to encompass implementation and ongoing monitoring. Within the category of Market Risk & Governance, the Firm focused on: (1) the appropriateness of the limit structure relative to risks undertaken; (2) the appropriateness of the risks undertaken; (3) policy, response and escalation process concerning limit breaches; and (4) consideration within LOB Risk Committees of liquidity and concentration in positioning. Within the category of Risk Independence, the Firm reviewed its firmwide, as well as LOB-specific, risk committee structure and governance, and re-emphasized the CIO CRO's reporting line to the Firm CRO.

The Firm has now undertaken, or is in the process of undertaking, substantial remedial measures to address the concerns arising from this self-assessment.² As described in more detail below, this includes: (1) reforming the Firm's Model Risk Policy, which governs model development, review, approval and monitoring; (2) reconstituting the risk management function within CIO, including overhauling the CIO Risk Committee; (3) reviewing and, where appropriate, revising market risk limits across all LOBs; (4) strengthening the Firm's processes across all businesses to escalate aged or significant limit excessions; (5) restructuring the Risk Operating Committee to increase the focus on identifying and implementing best practices where appropriate across LOBs; and (6) improving the presentation and delivery of information to the Firm's Board (specifically, the DRPC).³

More than 65% of the critical action plans identified have been closed. The goal is to have the remaining critical action plans completed by year-end 2013. The Firm's progress is actively tracked and reported monthly to the CRO and Deputy CRO, as well as to the OCC staff during standing meetings.

Revising the Firm's Model Risk Policy

The Firm has substantially revised its Model Risk Policy, which governs model development, review, approval and monitoring. The objective of the changes is primarily to improve the Firm's governance of models. Among other things, the changes clarify the responsibility of the Model Risk and Development ("MRaD") group to periodically consider the soundness of the operational environment and effectiveness of the Firm's models, and to highlight any noted shortcomings to the LOB for remediation, as discussed in additional detail below. Additionally, beginning in 2013, compliance with Firm standards will have to be attested to by the LOB, and will be evaluated in the normal course of internal audits. The Firm will also emphasize model implementation testing, as well as ongoing performance monitoring and assessment. MRaD, which is now required to sign off on closure of all model-related Action Plan items, has received enhanced staffing and established a Model Governance function. The primary role of this

See the October 5 Letter, which outlines the Firm's targets for completing its action plans.

See also the December 4 Letter, which describes changes to the Firm's Risk function.

team is to oversee the implementation, use and performance of models, which includes interacting with model users and closing Action Plans, as appropriate.

#### Risk Management Function

The Firm has substantially reconstituted the risk management function within CIO. The Firm has overhauled and expanded the coverage of the CIO Risk Committee, now the CIO, Treasury and Corporate Risk Committee ("CTC Risk Committee"). This Committee, which meets weekly, now includes representatives from CIO, Treasury and Corporate, including the Firm's CRO, Deputy CRO and CFO, as well as other key senior management from within and outside of CIO, in order to ensure greater consistency across the Firm's various LOBs.

The Firm also has appointed a new CRO for CIO, Treasury and Corporate who, as discussed below, has hired a significant number of additional risk management personnel, including senior-level officers, to extend the capacity of that risk function.

#### Market Risk Limits

The Firm has reviewed and, where appropriate, revised market risk limits across all of its LOBs and introduced additional granular and portfolio-level limits. As part of its ongoing risk management governance, the Firm continues to conduct periodic reviews of existing limit structures. Additional information regarding revisions to CIO-specific limits is provided below.

## Strengthening Processes to Address Limit Excessions

The Firm has strengthened its processes for dealing with limit excessions across all businesses. Aged or significant excessions must be escalated promptly to senior management and to risk committees. All valid or "under investigation" limit excessions, whether at the LOB or firmwide level, that are in excess for three business days or longer or are over limit by 30% are escalated to the LOB CEO, CRO, and Market Risk Head, as well as to the Firm's CEO, CRO, co-COO, Deputy CRO/Head of Firmwide Market Risk and the Firmwide Risk Committee.

For CIO, the CTC Risk Committee receives a weekly report of all limits that are in excess of 80% utilization. Any valid excession requires that the business promptly take steps to reduce exposure to within limit, unless a one-off approval for a limited period of time is granted by the persons responsible for setting the limit. Changes to limits are discussed and approved by the CTC Risk Committee.

#### Restructured Risk Operating Committee

The Firm has reviewed its Risk Operating Committee structure and governance and restructured this committee to increase the focus on identifying and implementing best practices where appropriate across LOBs. As discussed in greater detail below, the Firm's risk governance structure was enhanced to include the creation of a Firmwide Risk Committee and a Risk Governance Committee.

#### Information Provided to the DRPC

The Firm has put in place a two-fold process to ensure continued adequate transparency and appropriate escalation to firmwide senior management and the Board, directly or through its committees. This includes: (1) a framework that details a schedule of items to be discussed with the DRPC at specified frequencies; and (2) a reiteration to each LOB/Corporate⁴ CRO to raise issues of concern where they would benefit from the DRPC's input and perspective.

At each regularly-scheduled meeting, the Firm and LOB CROs discuss with the DRPC any concerns that could reasonably be expected to be material to the Firm or to an LOB, and actions that have been planned or taken to address those concerns. All LOB CROs, as well as the Head of Country Risk, now attend every DRPC meeting (regardless of whether they are scheduled to make a formal presentation) and are asked to highlight matters of particular importance. If significant risk management issues develop between meetings of the DRPC that the CRO believes could have a material adverse impact on the Firm, the CRO will promptly report such issues to the Chairman of the DRPC.

Additionally, significant enhancements have been made to risk reports presented to the DRPC. The CRO submits a report to the DRPC and to the Audit Committee concerning the Firm's risk management control environment, as well as any material issues regarding risk management raised by internal audit reports rated less than satisfactory, or by regulatory reports identifying MRAs. The DRPC also receives various other reports, including reports regarding the Firm's credit risk profile, concentrations, limit excessions, credit and valuation reserves, and firmwide VaR and stress limits. Finally, the reporting for Corporate Risk is now consistent with that of the LOBs in format and content, and the Corporate CRO presents as part of the standing agenda at each DRPC.

#### Oversight and Control Group

As detailed in the Firm's October 5 Letter, the Firm has also taken an important step with the establishment of the Oversight and Control Group. The Oversight and Control Group, led by its Co-Chief Control Officers, is responsible for solidifying an effective control framework and looking within and across the LOBs to identify and remediate control issues with a sense of urgency regardless of the source. Oversight and Control will work closely with all control disciplines – partnering with the Firm's Compliance, Risk, Audit and other functions.

[&]quot;Corporate" refers to the CIO, Treasury and Corporate businesses collectively.

#### Weaknesses Identified in Prior OCC Supervisory Letters

With respect to the observations noted regarding weaknesses identified in prior OCC examinations, specifically, weaknesses regarding model approvals and risk weighted assets ("RWA"), audit coverage, VaR model and CIO risk management, and CIO valuation governance, the Firm has taken substantial action, as indicated in the Firm's responses to earlier Supervisory Letters⁵ and as described herein. An overview of some of the key actions is as follows:

Model Approvals and Risk Weighted Assets, VaR Model Risk Management

As described in the Firm's October 5 Letter, given the evolving regulatory landscape and the importance of maintaining the Firm's strong capital position, the Firm established the Regulatory Capital Management Office. This group reports to the CFO and works closely with the Firmwide Oversight and Control Group (described above), with responsibility for: centralizing end-to-end RWA management, calculation, validation and reporting; regulatory capital policy interpretation and implementation; corporate capital planning and analysis; corporate capital stress testing; and, independent review of regulatory capital.

In addition, the Firm will deliver to the OCC by March 31, 2013, for supervisory review, a proposal detailing a significantly restructured and enhanced governance and operational process to: (1) identify VaR and other specific risk models requiring regulatory approval; (2) file requests for such approvals in a timely fashion; (3) track the status of approvals; and (4) escalate any issues within the Firm and to relevant regulatory agencies as appropriate. The Regulatory Capital Management Office will be responsible for this process.

As discussed in the December 13 Letter, the Firm has been taking significant steps to enhance its MRaD organization and applicable policies. The Firmwide Model Risk policy was updated and published on September 28, 2012. Notable changes to the policy and notable additional actions include:

- Clarification of the roles and responsibilities of all groups involved in the model review process.
- Expansion of the scope of the role of the Model Risk Officer ("MRO"), which has
  been converted to a full-time position. MROs have since been identified and are
  functioning in their new capacity.
- Introduction of the role of Model Manager. Model Managers support the MROs by
  performing a number of clearly-identified activities and working with model
  developers, model users, and risk and valuation professionals to enhance the overall
  model control environment. As of December 12, 2012, a total of 45 MROs and

For additional detail, see the January 4, December 13, December 4, October 11 and October 5 Letters.

Model Managers were named to positions in MRaD. The Firm is in the process of increasing the team staffing, with a target of 58 professionals.

- Expansion of the scope of MRaD to include additional oversight of model implementation and ongoing performance assessment.
- Requirements related to Tier 3 models⁶ changed from requiring testing to be
  performed only by the model developers or users to also requiring review by MRaD
  to ensure that the model is functioning as designed.
- Introduction of additional model governance forums in November 2012, including:
  - The Pipeline Forum, which meets weekly, prioritizes and tracks the execution of model reviews and the opening and closing of related action plans for each business.
  - The Supervisory Forum, which enables model management-related issues to be
    escalated in order to obtain informed outside guidance, as well as improved
    oversight of MRaD activities. This includes members of MRaD's senior
    management and several Managing Directors from relevant areas outside of
    MRaD.
- Documentation and independent review of all VaR methodologies, and creation of a centralized, dedicated VaR Methodology and Development team. Professionals for this team will be recruited from within and outside the Firm through the first half of 2013.
- The Firm has also conducted a spot review of significant drivers of VaR throughout the Firm, including in CIO, to ensure accuracy of the Firm's 10-Q VaR. In CIO, that spot review involved confirming that all of the positions comprising the CIO 10-Q VaR were being captured accurately, and included a comprehensive one-day check to ensure accurate data feeds into the CIO VaR model; a horizontal review to identify data quality issues among key data streams and a comparison with third-party data sources, where possible; a comparison of calculators identified in approved model reviews with those actually employed; a review of the process used to identify and separate 10-Q VaR vectors; and, resolution of then-outstanding model issues identified as "high" importance.
- The Firm has endeavored to increase communication of VaR model changes to its regulators, including the OCC.

The Firm assigns models to one of three categories depending on the risk the model presents to the Firm. Model category is determined through a subjective process, based on (1) model complexity, (2) economic consequences of the business activity for which the model is applied, and (3) the extent to which model outputs influence the Firm's financial statements, regulatory reporting or business decision processes. Tier 1 models are determined to have the most risk; tier 3 models are determined to have the least risk.

#### Audit Coverage

As described in the Firm's October 11 Letter, the Firm has taken steps to enhance the Firmwide Internal Audit function and expects to complete the remaining work by September 2013. Among other things, these steps include:

- Enhancement of the audit quality assurance program to include an assessment of
  overall audit coverage. The program will facilitate an end-to-end approach that
  encompasses all activities of an audit team (e.g., audit plan structure and
  administration, audit coverage, risk assessment, audit results, management reporting
  and continuous auditing). In addition, the enhanced quality assurance program will
  enable a more thorough evaluation of conformance to audit policies, such as those
  pertaining to audit workpaper documentation.
- Implementation of a formal Subject Matter Expert program to enable more
  comprehensive and consistent audit coverage of certain topics. Responsibilities will
  include, but are not limited to: (1) building and maintaining expertise in applicable
  subject areas, including ongoing training and understanding of industry practices; (2)
  developing standard audit programs; (3) promoting consistent audit coverage across
  businesses; (4) participating in applicable audits to provide insight on risks and scope
  of testing; (5) sharing emerging trends and issues across audit teams to effect changes
  to planned coverage; and (6) determining staff training strategies.
- Quality assurance reviews of continuous auditing activities across all audit teams will
  be conducted. The results of these quality assurance reviews will be a critical input to
  the management oversight responsibilities of the Audit Management Team.
- Regarding CIO activities, by January 31, 2013, the audit plan structure will be
  reevaluated and revised as appropriate. CIO risk assessments will be completed at a
  more granular level and audit coverage will be commensurate with the associated
  levels of risk.
- Internal Audit is enhancing its audit capabilities with respect to Risk in particular.
   This includes formally designating subject matter experts who participate in applicable audits to provide insight on risks and scope of testing. Additionally, Internal Audit is formally represented on the CTC Risk and CIO Business Control Committees. The Chief Auditor has attended and will continue to attend the CTC Risk Committee meetings, while the Senior Audit Manager in charge of CIO audit coverage is the Internal Audit representative at the CIO Business Control Committee meetings.

Enhancements to CIO Valuation, Reporting and Other Processes

As described in the Firm's January 4 Letter and below, the Firm has taken significant steps to enhance the firmwide and CIO valuation process. Among other things, there is increased management oversight and governance with respect to the CIO valuation process, with direct engagement and oversight by the CIO CFO and Controller.

Additionally, a new CIO Valuation Control Policy was issued in July 2012, which clearly outlines the responsibilities for VCG and details the valuation control process, including pricing sources, thresholds, fair value adjustments, and escalation and reporting requirements.

CIO has also enhanced its key business processes and reporting. For example:

- The daily Global Risk and Senior Management Reports provide management with detailed P&L and a consolidated and transparent view of all CIO risk positions; distribution includes the Firmwide CEO, CRO, Deputy CRO and co-COO in addition to senior managers within CIO.
- A more granular and comprehensive limit structure, consisting of VaR, Stress, Non-Statistical Single Name Position Risk, Asset Class Concentration and Country Limits, has been implemented.
- Since May 2012, the CTC Risk Committee has implemented more than 200 new or
  restructured risk limits covering a broad set of risk parameters, including geographic
  and concentration risks. While CIO has effectively closed out all its positions in the
  Synthetic Credit Portfolio, prior to closing out those positions, a number of new,
  granular limits were applied to that portfolio beginning in May 2012.
- Senior management is informed of CIO's risk profile and any changes through monthly discussions at the CTC Risk Committee.

2.

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#### Management Response

The Firm remains committed to ensuring that risk management and control staffs have the knowledge, skills, resources and support to challenge front office strategies, activities and positions. The Firm has taken various steps, including the following, to ensure that risk management and control staffs have the necessary tools and independence to do so.

### Firmwide Risk Management and Control Staffs

As discussed below, a Firmwide Risk Committee has been created. This Risk Committee includes key senior management officials, including the Firm's CRO, Deputy CRO and CFO. With the establishment of this Committee, the Firm has ensured greater consistency across its various LOBs and provided an escalation point for risk topics and other issues.

The Firm has also instituted a Firmwide Valuation Control Group ("VCG") and a Firmwide Valuation Governance Forum ("VGF"). The Firmwide VCG integrates all valuation control teams in the Firm under the same organizational structure, allowing further dialogue on best practices and consistency. The VGF oversees the management of risks arising from valuation activities conducted across the Firm. The Firmwide VGF is chaired by the Firmwide Head of

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VCG, and its membership includes the Corporate Controller, the Deputy CRO, the LOB CROs and Controllers of the Corporate and Investment Bank, Mortgage Bank and CIO, the CFOs of the Corporate and Investment Bank, CIO and Asset Management, and the head of MRaD. The Firmwide VGF meets twice per quarter to review issues and matters relating to valuation, the VCG function and related issues, and to address issues elevated to it by the LOB VGFs.

#### CIO Risk Management and Control Staffs

The Firm has established consolidated management oversight across CIO, Treasury and other Corporate activities. Specifically, the management of these business activities has been brought together under the new Co-Chief Operating Officer of the Firm. Moreover, as detailed above, in order to address the findings of the firmwide self-assessment, the Firm has also overhauled the CTC Risk Committee to further improve linkages between Corporate activities and to ensure greater consistency across the Firm's LOBs.

#### New CIO Leadership Team

Immediately following the May 2012 announcement of losses in CIO, a new CIO management team was put in place. This includes a new Chief Investment Officer, who serves as the CEO of CIO. A number of other experienced, tested professionals, are applying their knowledge of best practices to their new roles in CIO. These professionals have been appointed to key positions, including CFO of CIO; Chief Risk Officer for CTC; Chief Investment Officer for EMEA; CIO Global Controller; General Counsel for CIO and for Markets in the Corporate and Investment Bank; and the Chief Auditor and a Senior Audit Manager. With these new appointments, the Firm has reconfigured the entire team with strong and knowledgeable individuals who have brought more rigor to the management of CIO. At the same time, this new team has established stronger linkages within CIO by introducing formal lines of communication across the various regions. The CTC CRO reports directly to the CRO of the Firm and is the co-chair, along with the Co-Chief Operating Officer of the Firm, of the CTC Risk Committee.

#### Increased Resources in Key CIO Support Functions

As noted above, the Firm has increased resources in key support functions. Since May 2012, the CTC Risk function has hired 22 new professionals and continues to seek to recruit an additional 14 professionals. These hires have added expertise in emerging markets, securitized products, credit (single name), municipal bonds, and interest rates and currency trading to the Market Risk Coverage teams. Many of these hires were from internal Risk Management functions (Market Risk, Credit Risk, CPG and Principal Risk), thereby bringing to CTC Risk best practices from other areas of the Firm. The CTC function has also created new, specialized functions, including a Treasury Risk and Other Corporate Risk coverage team, a Global Business Management function and a Credit Risk Management function.

As noted above, the CIO Finance function was reorganized with a newly appointed Global CFO and Global Controller. It also increased key resources by hiring experienced finance personnel from within and outside of the Firm. Additions have included a new

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Head of CIO VCG, a Global Control Officer, a Senior Controller in North America CIO and a new CFO for EMEA CIO.

#### Risk Management Training

CTC Risk has a strong focus on training, and recent initiatives for CTC Risk personnel have included training regarding Reputation Risk, Credit Risk Management and Limits Monitoring and Country Risk. There are also product-specific teach-ins conducted by seasoned Risk professionals and portfolio managers, and a weekly Global CTC Risk Team Meeting enables personnel across CTC Risk to communicate effectively across regions and products. In addition, as appropriate, portfolio reviews, functional overviews, methodology updates and policy changes that are presented at the CTC Risk Committee meetings are shared with the CTC Risk team.

3.

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#### Management Response

As discussed in detail in the Firm's October 5 Letter, and noted above, the Firmwide Oversight and Control Group is tasked, among other things, with ensuring that MRAs are fully and effectively remediated in a timely manner. The Chief Control Officers meet on a bi-weekly basis with OCC, Fed and FDIC examiners to discuss the status of responses to Supervisory Letters, MRAs and other open issues or questions.

The Group's two components, the Central Control Team and Line of Business/Functional Control Officers, each play a role in ensuring that MRAs are addressed. The Central Control Team is responsible for diagnosing MRAs for trends and patterns. This includes identifying the number, status and root causes of MRAs identified by the OCC. LOB Control Officers, senior officers with the stature and seniority within the Firm to provide credibility to the remediation process, are responsible for managing the Firm's response to MRAs by confirming current status and action plans, verifying detailed execution plans, prioritizing the list of open issues, verifying that all matters that have been completed, reviewing all high severity items (e.g., MRAs, audit action items) on an ongoing basis, ensuring that appropriate resources are devoted to resolving the matters, and reconciling the inventory of matters with the Firm's regulators. Additionally, the Firm also is leveraging the "Keys" process for MRAs that is already in place in the Mortgage business, so that a formal review process is conducted to confirm that MRAs have been closed appropriately.

Significant progress has been made since the Firm initiated this effort. The Firm has developed a control framework, detailed roles and responsibilities, appointed senior Control Officers with diverse experience across LOBs, functions and regions, and completed a global baseline for regulatory issues and recommendations. Control Officers have begun implementing the

The "Keys" process is a process by which regulatory MRAs are reviewed and addressed. Representatives from Audit, Operational Controls, Technology, Legal, Risk, Finance and Compliance participate in the process, as appropriate.

framework, and have reviewed regulatory issues for themes and patterns. The Firm is continuing its work to operationalize the control framework by: (1) developing a robust process to review issues, engage senior management early, address root causes, and apply resolutions from one area of the Firm to all other relevant areas; and (2) establishing a platform to maintain relevant data. Centralizing this function will create consistency in the MRA review process, and provide the Firm an opportunity to consider whether similar issues exist across functions.

#### Firm-wide Governance Processes require strengthening.

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#### Management Response

To ensure that risk management and other control functions have sufficient resources and support, the Firm has been working to enhance the Firm's governance framework, both firmwide and specific to CIO.

#### Firm Risk Governance

The Firm has reviewed and substantially enhanced its risk structure and governance through, among other things, the establishment of new and more robust committee structures. Those committees include:

Risk Governance Committee. This committee meets monthly and focuses on risk governance and other policy matters, risk analytics, model governance, Basel/regulatory issues, risk appetite, and updates to firmwide risk programs in the areas of compliance, liquidity and operational risks. The Firm's CRO, CFO, Controller, LOB CROs, CRO, and personnel from Legal, Compliance, Audit, and Regulatory Policy participate in these meetings.

Firmwide Risk Committee. This committee focuses on business activity, including by conducting periodic reviews of firmwide risk appetite and certain aggregate risk measures, serving as an escalation point for matters arising in the LOB risk committees and for certain limit breaches pursuant to the limits policy, and considering relevant business activity issues escalated to it by LOB CROs and CEOs. It meets monthly and participants include the Firm's CEO, CRO, Deputy CRO, LOB CEOs, CIO, General Counsel, Chief Auditor, Compliance Head, Regulatory Policy Head, Consumer Risk CRO, Wholesale Credit Risk CRO, MRaD Reputation Risk Officer, Country Risk Head, Corporate Risk CFO and Chief Administrative Officer, and LOB risk officers.

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Risk Management Business Control Committee. This committee meets quarterly and focuses on the control environment within the Risk organization, including outstanding action plans, audit status, operation risk statistics (such as losses, risk indicators, etc.), compliance with critical control programs, and risk technology. Participants in these meetings include the CRO, Deputy CRO, LOB CROs, Risk CFO and Risk Chief Administrative Officer, Operational Risk Head, and personnel from MRaD, Audit and Compliance.

<u>Risk Operating Committee</u>. This committee focuses on risk management, including setting risk management priorities and escalation of risk and other issues brought to its attention. Participants include the CRO, LOB CROs, as well as the Risk Human Resources and Risk Chief Technology Officers.

The Firm also created new senior firmwide risk positions:

<u>Deputy CRO/Head of Firmwide Market Risk</u>, who is responsible for the review and assessment of firmwide market risk. This includes managing the Firm's risk appetite and risk limits, risk mitigation strategies, working with the CRO to lead and develop the Firm's risk organization, and directing the Firm's market risk coverage resources.

Wholesale Chief Credit Officer ("WCCO"), who reports to the CRO and is responsible for credit risk across all wholesale businesses. In this capacity, the WCCO will: chair a Wholesale Credit Risk forum to ensure better communication between each business and across all risk functions; work with LOB CROs to identify and effectively manage key credit risks and concentrations across the wholesale businesses; and, partner with the LOB CROs to engage in initiatives across wholesale lines of business, including defining credit risk appetite and setting appropriate limits, supporting key growth initiatives while maintaining strong credit risk management controls, coordinating regulatory responses, building a credit risk stress framework, and enhancing credit risk reporting and credit risk systems.

<u>Cross-LOB Risk Officers</u>, who are responsible for identifying and implementing best practices, which promotes consistency of enterprise risk management processes and practices. The Cross-LOB Risk Officers review specific risk types across the Firm, including country risk, risk policy, model risk and development, market risk, reputation risk, consumer credit risk and wholesale credit risk.

## CIO-specific Governance

As detailed above, the CTC Risk Committee has been significantly enhanced by the inclusion of senior management from within and outside of CIO, including members from Treasury and Corporate. Additional new and more robust committee structures have also been instituted within CIO, including weekly CIO Investment Committee meetings, and monthly Business Control Committee meetings.

The Firm has also hired experienced professionals for CIO VCG, including a new head of Corporate VCG as well as three new regional CIO VCG heads, including for EMEA VCG. The Firm also established a Corporate VGF under the umbrella of the Firmwide VGF. The CIO VGF

is responsible for understanding and managing the risks arising from valuation activities within CIO and for escalating key issues to the Firmwide VGF; the VGF meets monthly.

Furthermore, Corporate Business Reviews, which include CIO, are to be conducted with increasing frequency and with the same rigor as similar reviews for the Firm's client-facing LORs.

Structural Risk Management Practices Need Strengthening.

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#### Management Response

CIO makes investments to offset interest rate and foreign exchange risks that are allocated to CIO from the LOBs. As discussed above, these investments are subject to applicable risk and portfolio metrics, as well as duration/curve profile, portfolio allocation guidelines and correlation analyses and sensitivities. CIO is also in the process of creating sector benchmarks that will be used to evaluate product level performance.

As also discussed above, CIO no longer engages in the type of trading that generated the losses in the Synthetic Credit Portfolio and has refocused on its core mandate of traditional Asset and Liability Management ("ALM"). The majority of CIO's Synthetic Credit Portfolio was transferred from CIO to the Corporate and Investment Bank and the Firm effectively exited the remainder of the portfolio positions that remained in CIO in the third quarter of 2012. Any future credit hedge positions will be transparent, within applicable risk limits and closely linked to a particular risk or set of risks that they are designed to offset.

CIO's hedging activities are governed by the Firm's CIO Investment Policy. Consistent with the Firm's CIO Investment Policy, CIO uses its Strategic Asset Allocation ("SAA") portfolio, which is managed under an ALM framework, to offset the Firm's interest rate and foreign exchange risks. In executing its role, CIO operates within a risk framework that is consistent with firmwide risk management policies and reflects the ALM and portfolio management aspects of its activities. For example, investment decisions will consider the Liquidity Asset Buffer (LAB) and non-LAB eligible assets allocations as the Firm adheres to liquidity requirements under Basel III.

The CIO's MTM portfolio supplements its SAA portfolio and is connected to the ALM mandate of the group. MTM investments are made prior to making a strategic allocation of a particular product type in order to assess certain characteristics of the investment, such as liquidity. These investments are smaller in size, short-term and governed by tight risk limits, and the strategies

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are reviewed periodically in accordance with the Firmwide Market Risk Limits policy. Discussions with Risk and senior portfolio management personnel take place as part of an ongoing process to review strategies with risk measures and P&L.

The CIO Investment Committee, which meets weekly, is chaired by the Chief Investment Officer and meetings are attended by representatives of CIO Risk, Finance, Legal and Compliance, as well Corporate Treasury, Technology and Operations. The Investment Committee sets broad portfolio allocation targets that vary depending on the then-current economic and market environment. Allocations are executed by portfolio managers who operate within the parameters approved by the Investment Committee. The investment process takes into account safety and soundness, balance sheet efficiency and risk mitigation, all of which are central to CIO's objectives for overall portfolio management process. Investment decisions are made based on a risk/reward framework that considers the relevant interest rate, credit, currency and other market risk factors as part of the investment process. Key attention in CIO is paid to the credit quality of potential investments and the ongoing credit monitoring of securities held. This encompasses fundamental credit analysis/due diligence, which is carried out by a global team of credit analysts prior to purchase and on an ongoing basis.

As discussed above, both the SAA and MTM portfolios are governed by a combination of aggregate stress loss and VaR limits as appropriate. Additionally, asset class market exposure limits exist to manage concentrations of positions relative to market size and liquidity. The MTM portfolio is governed by a number of non-statistical MTM limits, in addition to VaR and Stress limits. Additionally, the portfolios are subject to the firmwide risk limits structures covered under the firmwide Market Risk, Single Name Position Risk, Country Risk and Counterparty Risk policies. Any changes to limits are reviewed and approved by the CTC Risk Committee. Limits are periodically reviewed and sized appropriately given new investment strategies and the size of the portfolio.

Outside of CIO, the Firm has the ability to engage in macro hedges within the Corporate and Investment Bank, though it has not done so in more than a year. Any macro hedging, as well as normal-course hedging by any trading desk, would be treated like any other trading position in the Corporate and Investment Bank, and would be subject to the same risk framework and controls.

#### Communication with OCC examiners needs strengthening.

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#### Management Response

The new CIO leadership team, as well as senior Firm management, recognizes the importance of an open and transparent culture, including in its communications with the Firm's regulators. The Firm has been working to improve CIO's culture and communications — both internally and with regulators — to ensure full and timely escalation of and visibility into CIO's activities as well as those of the LOBs. This culture of openness has been and continues to be reinforced at all levels of management.

The Firm understands and fully appreciates its obligation to keep the OCC fully informed of significant information and apologizes for any gaps in its communications with the OCC. On or about April 26, 2012, the Firm sent a team of senior personnel to London to, among other things, perform a thorough position-by-position review of the Synthetic Credit Portfolio. Though we did not know the nature and extent of the issues in CIO at that time, in hindsight, we wish we had advised the OCC of this effort and had not awaited further clarity before providing information to the OCC. While the Firm did provide P&L data to the OCC, we recognize that it would have been better to highlight potential issues and provide information on a real-time basis. Any incompleteness in the Firm's communications was unintentional.

From: Lee, Kevin [mailto:Kevin.Lee@occ.treas.gov] Sent: Tuesday, January 29, 2013 1:17 PM To: Murphy, Allison (HSGAC); Moore, Carrie

Cc: Lee, Kevin Subject: RE: question

Hi Allison.

According to the examiners, all banks are required to have a process of independent price testing. It is called different things at different banks or investment companies, but it is a basic internal control process.

Hope this is helpful.

Thanks, Kevin

From: Murphy, Allison (HSGAC) [mailto:Allison Murphy@hsgac.senate.gov]
Sent: Tuesday, January 29, 2013 9:42 AM
To: Moore, Carrie; Lee, Kevin

Subject: question

Hi Carrie and Kevin,

I had a quick question for one of the folks on your team. My sense is that Mike Kirk might be best situated to tell us an answer, or perhaps Fred Crumlish: We have talked to a number of folks about the Valuation Control Group process at CIO and we generally understand how that worked at JPMC. Can OCC tell us if valuation control groups are required at banks that deal in derivatives? Feel free to shoot an email back or call, whatever is easier.

Thanks. Allison

Allison Murphy Counsel U.S. Senate Permanent Subcommittee on Investigations 199 Russell Senate Office Building

# TRANSCRIPT OF AUDIO RECORDING OF JPMORGAN CHASE EARNINGS CALL WITH MEDIA ON APRIL 13, 2012 PREPARED BY THE PERMANENT SUBCOMMITTEE ON INVESTIGATIONS

Date:

April 13, 2012 (Conference Call)

Parties:

Joe Evangelisti (JPMC); Douglas Braunstein (JPMC); Jamie Dimon (JPMC); Dawn Kopecki (Bloomberg); Tom Braithwaite (Financial Times); [reporter not specified] (Palmalo Mortgage News); Matthias Rieker (Wall Street Journal); Margaret Pepper [no affiliation provided]

Identifier:

https://dl.dropbox.com/u/35243775/JPM413.wma

Moderator:

Welcome, and thank you all for standing by. I would like to remind the participants that they will be in a listen-only mode for today's conference call. I'll be turning the conference call over now to your speaker for today, Mr. Doug Braunstein. Sir, you may begin.

Mr. Evangelisti:

Hey, everybody, it's actually Joe Evangelisti, so welcome to our first quarter earnings call. I've got Doug Braunstein, our CFO on the line, and we also have Jamie Dimon, our CEO on the line. Doug is going to start with some comments, and then we would be happy to answer any questions you have. Doug.

Mr. Braunstein:

Hey, so good morning, everyone, let me just give you a couple minute overview on the quarter. I'm sure as you now have seen, \$5.4 billion in net income. We reported a \$1.31 a share. That's on \$27.4 billion in revenues. Revenues are up 6% year-on-year; they are up 24% quarter-on-quarter; and we reported a return on tangible common equity of 16% this quarter. And if I step back, and just characterize the performance of the businesses, solid performance across most of our businesses. We had real strength in the investment bank this quarter, and improvement, significant improvement, in mortgage banking, particularly year-over-year. There were really four themes in the quarter.

The first is, we continue to see underlying growth in a number of our key business metrics, so wholesale loans are up 23% year-on-year, small business loans are up 35% year-on-year, credit card sales growth 12% up year-on-year, mortgage applications up 33% year-on-year, deposit growth in our branches up 8% year-on-year. And I think that growth reflects both underlying fundamentals as well as share gains in a variety of our businesses.

The second theme as you look through the numbers is, credit continues to improve. On the consumer side in both mortgage and credit card improvements in delinquencies. Delinquencies, net charge-offs, were down; in credit cards 36% year-on-year, in mortgages 25% year-on-year. And then in wholesale, very stable and strong credit results.

The third thing I think you see through the numbers is, we have had very positive markets in the first quarter, and that's improved a number of our results quarter-on-quarter and set some records for us as well. So in the investment bank you saw very strong flows in our underlying customer businesses in both fixed income and equity markets. If you take out some of the effects of DBA, the sales numbers for year-on-year comparisons were effectively flat with a very strong quarter in 2011. You saw records set in assets under supervision and assets under management in Asset Management. You saw a record set, \$17.9 trillion of assets under custody in TSS. We set a record for assets under management in our Chase Wealth Management business, almost \$150 billion there. So strong markets-related performance.

And then the last big theme I talk about is capital generation in the quarter. We reported a 10.4% Basel I tier 1 common ratio, an 8.4% pro-forma Basel III. That's up 50 basis points. We added \$6 billion to capital this quarter. And as you know, we also announced and raised the dividend this quarter and began a stock repurchase program under a new \$15 billion authorization.

And my last comment before I open for questions is, as we do every quarter, we have a number of significant items that we highlight at the very front of the press release. We'll highlight at the very front of our earnings deck, clear and transparent. There were four of them this quarter. We had reserve releases; we took litigation reserves; we had a one-time gain from the WaMu settlement; and we had DBA this quarter that was a negative. If you add all of those up, it would be a nine cent reduction in our reported earnings of a \$1.31. So adding that back would be a reported number of a \$1.40. With that, maybe I will just stop and open the floor up for questions for Jamie and I.

Mr. Evangelisti:

Okay, Kelly, we are ready for questions.

Moderator:

Thank you and at this time if you do have questions or comments, that is *1 on your touch-tone phone. Please make sure you are recoding your first and last name. Again that is *1, it will be just one moment please.

Our first question comes from Dawn Kopecki, your line is open.

Ms. Kopecki:

Hi Jamie, this is Dawn at Bloomberg. We have a story today about how you have transformed your CIO office into somewhat of a proprietary trading operation. I'm wondering how you think about that; is that something that you would agree with. The Volcker Rule hasn't gone into effect yet. And also can you talk a little bit about those trades, and whether the regulators are looking at any of those.

Mr. Dimon:

Doug is going to give you a big picture, and if that doesn't answer all your questions, we will come back to it, okay?

Ms. Kopecki:

Okay.

Mr. Braunstein:

Dawn, Dawn just step back. The company generates liabilities in the form of deposits and generates assets in the form of loans. And those, we have more liabilities, we have a billion, a trillion-one in liabilities vs. \$700 billion worth of loans. And we take that difference and we invest it in order to manage that structural interest-rate risk between liabilities and loans, and that number, that difference has grown over time. And we invest that \$360 billion today in a variety of very high-grade securities: mortgage-backed securities, government securities, high-ends of the credit spectrum. And that generates earnings for us and it also balances our interest-rate risk. In addition CIO balances our FX risk, our basis risk and a number of other risks. As part of that, they hedge against downside risk, because that's the nature of protecting that balance sheet. And as part of that, we have had for many years a structural credit book that hedges against stress loss, meaning downturns in the credit market. These positions that you all have been writing about are just simply part of that structural credit book, which by the way, we have been reducing over time. And we are very comfortable with the positions that we have. And I would step back and say, all those activities I just described are very longterm in nature, because that's the nature of the asset and liability mix for us. And they are consistent with both I think the spirit and the written rules of Volcker as we read them today.

Ms. Kopecki: Now it's not all used for hedging though, correct? You had said that you

had some excess capital that you use to just invest, some of which goes to

hedging and some of which doesn't, correct?

Mr. Braunstein: So it's the very nature, Dawn, it's the very nature of that structural

mismatch. We, of course, invest. We have a big investment portfolio; it has to generate net interest income in order to cover those liabilities and make us balanced from an interest rate standpoint. And of course, when we put a dollar to work, we want to do so prudently and invest it in safe, smart and good returning assets. And that's, that's the job of CIO.

Ms. Kopecki: Okay, and as part of that, you have a large book of European mortgage

debt. Somewhere around \$70 billion. Is that in your CIO office as well?

Mr. Dimon: Yes.

Mr. Braunstein: Yes.

Ms. Kopecki: Okay, Okay, thank you.

Mr. Braunstein: We are a global firm.

Ms. Kopecki: Oh, okay and-

Mr. Dimon: Doug should mention, we should mention that we do this around the

world, because we create deposits around the world. And we are very conservative, and the portfolio does change over time as we change our views about various things. And that's what we are supposed to do.

**Dawn Kopecki:** But what does the European mortgage debt hedge? What is that hedging?

Mr. Dimon: We have deposits overseas—

Ms. Kopecki: Okay.

Mr. Dimon: And we make investments around the world in various products,

mortgages, credit as Doug said.

Ms. Kopecki: Okay.

Mr. Dimon: It's a big fixed income portfolio. Every bank, every bank has one, relative

to the size of the bank.

Ms. Kopecki: And are—

Mr. Evangelisti: Dawn, we have to give somebody else a turn, and you can come back, all

right?

Ms. Kopecki: Well, just can they follow up with regulators, if regulators are looking at

this? Last one.

Mr. Dimon: We are not going to talk about conversations with regulators, but they see

everything and anything we do whenever they want.

Mr. Evangelisti: We are fully transparent with them.

Ms. Kopecki: Okay, thank you.

Mr. Evangelisti: Thank you, Dawn.

**Moderator:** Thank you. Our next question comes from Tom. Sir, your line is open.

Mr. Braithwaite: Hi, it's Tom Braithwaite. I wondered if could you talk a little bit about the

mortgage business which seems to have benefited from HARP and the general refi[nance] climate. On the other hand, you have got another chunky litigation expense. I was just wondering, on the one hand, how far are we through the legacy issues and, on the other, what are you seeing

today in the current trends?

Mr. Dimon: Let me just mention the revenue side, then Doug is going to talk about the

litigation real quick. So on the revenue side, it is true, volumes were good but not great, but spreads were higher. So that, the results were better than they would normally be by several hundred million dollars, because of that. I, we don't expect that to continue forever. That moves around based upon flows, and volume and competition and some of that came out of

HARP.

Mr. Braunstein: So let me talk about the litigation for a moment, which is: We added \$2.5

billion to litigation primarily, predominantly related to the mortgage-backed issue. And I think if you just step back at this point, from a current

standpoint we think we are both conservatively as well as

comprehensively reserved for this issue. Absent material changes which could certainly change our views, you know we think it's unlikely for us to add significantly to these reserves. But, you know, reserves can go up, they can do down based on those circumstances, but we feel where we are today, we feel very conservatively as well as comprehensively reserved.

Mr. Braithwaite: You said the mortgage-backed issue, you mean the mortgage label?

Mr. Dimon: Private label.

Mr. Braithwaite: Private label.

Mr. Braunstein: Yes.

Mr. Dimon: Private label reps, warranties and litigation.

Mr. Braithwaite: Got it, great. Can I just ask one more? Is this the ceiling for buybacks

where the stock is right now? You have got this big program you can use,

but is sort of \$45 where you, where you won't go?

**Mr. Dimon:** So here's what it is. We have a \$15 billion approval from the regulators.

Obviously we would—I would have preferred to buy back stock around tangible book value, but we didn't get that chance. We will, regardless of price, buy the \$3 billion we approximately issue every year. We just think

that's a good discipline.

Mr. Evangelisti: We issue that for employee compensation.

Mr. Dimon: Yeah, it usually vests over time, but I think it's good discipline that if you

issue stock, you should buy it back so you keep it kind of balanced. And we will decide over time when and how we want to buy back the stock. We have organic growth. We've got investment opportunities. We obviously have to raise capital standards for Basel III. So we get to decide. We will buy less as the stock goes up. We will buy more as the stock goes down. We are not going to be completely transparent for obvious reasons,

but it does not mean that over 45 we may not buy more. That decision we make every single day, based upon our view of the other opportunities.

Mr. Braithwaite: Thanks a lot.

**Moderator:** Thank you. Our next question comes from Palmalo. Your line is open.

Pamalo: Hey, Palmalo Mortgage News. Just if you can give us an outlook on your

plans to sell mortgage servicing rights. You have been selectively selling some MSRs here and there. Are you going to continue to be a net seller of

MSRs, and can you give us an outlook on that?

Mr. Dimon: I wouldn't count on that. That depends on the market for MSRs, and why

we might want to do it. We haven't sold a lot either.

Palmalo: So you can give us no outlook on what you are going to do? It depends on

the market?

Mr. Dimon: I just said I wouldn't expect it, but we might. It depends you know on

what people say and what the prices are, etc.

Palmalo: Can you tell us about your continuing problems with buybacks with

Fannie Mac and Freddie Mac? How's that looking?

Mr. Dimon: You know, that's getting better over time if you look at other things. And

hopefully it will run down over time. We have said that we expected it to run about \$300 million plus a quarter and eventually it will start going down. The big problems in the past have already been—are running

through the pipeline here.

Palmalo: Okay, thanks.

Mr. Evangelisti: Thank you.

Moderator: Thank you. Our next question comes from Matthias Rieker. Your line is

open.

Mr. Rieker: Good morning. Can you talk a little bit about provisioning in the quarter? I

assume the fact that the provision is up in some areas is a reflection of the strong loan growth you are seeing. Could you talk a little about that and the allowance, whether it might go up or down in the coming quarters or

whether you have found a comparable level here?

Mr. Dimon: We took down reserves in mortgage and card, but though we are still very

conservatively reserved. We took them down, because we have to. That's the accounting rules. I think the other businesses, wholesale credit in general, is just excellent. I mean, charge-offs are extremely low in investment banking, in commercial banking. So there it was just kind of business as usual as we had [to] add things, as things go bad, as we have charge-offs, reserves get adjusted. We don't expect material reserves takedown in the future. At one point we are going to have to take down

mortgage reserves, as charges come down.

Mr. Rieker: But the provision went up from quarter over quarter in commercial

banking and in ears and auto, no?

Mr. Braunstein: A lot of that is just simply loan growth.

Mr. Rieker: Yeah.

Mr. Braunstein: Simply pluses and minuses in the system.

Mr. Dimon: It's almost name by name. You know someone gets downgraded, we add

to the reserves; someone gets upgraded, we take a little reserves down. Charge-offs are very low, and we're just—this is steady state. Think of it as kind of steady state. You are always going to have in and outs, ups and downs. There's nothing underlying it that is material. Recoveries, you

have a whole bunch of things affecting that.

Mr. Rieker: And could you just work us through what you saw in loan demand,

particularly from the consumer set? Auto continues to be strong. Talk a little bit about what your plans are in student lending, cars; what you see

in demand.

Mr. Dimon: So cars, both spend is way up. I think we are gaining share. And the actual

loan balance is acting like we would expect with some seasonality like we expect. Auto demand is strong, mostly because car sales are doing very well. Doug mentioned the importance. Middle market is up like 18%. And

small business is up 35%.

Mr. Braunstein: And middle market, not only is it up the 18-19% that Jamie talked about, it

is actually a record level for us for middle market loans. We are feeling

demand.

Mr. Dimon: It's eight straight quarters.

Mr. Braunstein: We are feeling demand. Some of that, again, is going to be market share

growth, but some of that is real underlying fundamental demand.

Mr. Rieker: What is your feel about the economy at this point?

Mr. Dimon: You know, no one knows the future. But, in short, businesses are in very

good shape. They are earning money; they are very well capitalized; they have a lot of cash. We think housing is getting very close to the bottom, and most of the -- I wrote a page or two in my chairman's letter about all the positives signs about housing. And the consumer is actually, if you look at debt service ratios, back to where it was 20 years ago. Because the consumer has both paid off debt, and there has been over a trillion dollars in write-offs. So consumer debt is down something like 15 or 20%, effectively. Some of that is not in the national accounts yet, but we know it's there. Like debt is not being paid right now, and then you have had what 4 million jobs in the last 24 months. I know the recent data: I

wouldn't overact to monthly data if I were you. It looks, it looks okay. We

all wish we were a little bit stronger, and maybe we have a self, a strengthening recovery or not, we don't know yet.

Mr. Evangelisti: Great. Thanks.

Moderator: Thank you. Our next question comes from Margaret Pepper; your line is

open.

Ms. Pepper: Hi, couple of questions. One is that, although you're talking about loan

growth in various categories, if you look at the overall loan portfolio, it seems to be down just slightly, or if you want, flat. And the other thing is that NPLs seem to have picked up slightly. Can you explain what's going

on there?

Mr. Braunstein: Yeah, so Margaret, on loan growth, the wholesale loan growth is up year-

on-year, up quarter-on-quarter. What you are seeing in total is -- you know we have been running off this large mortgage, heritage mortgage portfolio from WaMu, and that's the difference. And we have been very transparent about that's going to run off. It ran off \$25 billion in the last year. So that's the loan story. On NPLs, year-over-year, NPLs went from \$13.5 billion down to \$10.5 billion this quarter. So it is on a very positive trend, and we'd expect it to continue if the economy maintains its trajectory.

Ms. Pepper: But versus the last quarter, they are up slightly, right?

Mr. Dimon: [directed at Mr. Braunstein] Yeah, yeah, you can mention that. Go ahead.

Mr. Braunstein: Yeah, so part of that is, there was some industry-wide regulatory-led

reclassification of some home equity loans. And so we added \$1.6 billion to our number in the first quarter. We didn't restate all the historical. That \$1.6 billion was fully reserved for, and 80% of it, 90% of it, is actually

paying currently.

Mr. Dimon: The important thing is that, because we have been very transparent about

this, these are second mortgages that are paying behind delinquent firsts. I think we have mentioned way, a year ago, that we are reserving those, because we know they are going to go bad. This just simply puts them [in]to the nonperforming category, before they're nonperforming. That's

all it does.

Ms. Pepper: Okay, and just one more last question, if I may. The \$2.5 billion that you

added to litigation reserves, does that have anything to do with the Wells

notice that you got this quarter?

Mr. Evangelisti: No.

Ms. Pepper: Is that reserved for?

Mr. Braunstein: You know, we, we, as I said, we are taking a very comprehensive look.

We take all of this, all of the pending suits, the prospector suits and as long as it is probable and estimable, we are putting it into reserves. And this addition this quarter is really a very comprehensive view of that. All the factors, and I'll just remind you those factors can change over time,

and that will reflect itself in the reserving action.

Mr. Dimon: A lot of these things are duplicative. I mean we already got the lawsuit,

and then we got the Wells notice; it's just, it's the same thing.

Ms. Pepper: Okay, thank you, thank you.

Mr. Evangelisti: Thanks, Margaret.

Moderator: At this time I am showing no further questions.

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