

Proposed Rules

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This section of the FEDERAL REGISTER contains notices to the public of the proposed issuance of rules and regulations. The purpose of these notices is to give interested persons an opportunity to participate in the rule making prior to the adoption of the final rules.

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2007-0047; Directorate Identifier 2007-NM-197-AD]

RIN 2120-AA64

Airworthiness Directives; Bombardier Model CL-600-2B19 (Regional Jet Series 100 & 440) Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: We propose to adopt a new airworthiness directive (AD) for the products listed above that would supersede an existing AD. This proposed AD results from mandatory continuing airworthiness information (MCAI) originated by an aviation authority of another country to identify and correct an unsafe condition on an aviation product. The MCAI describes the unsafe condition as:

* * * * *

The Bombardier CL-600-2B19 airplanes have had a history of flap failures at various positions for several years. Flap failure may result in a significant increase in required landing distances and higher fuel consumption than planned during a diversion. * * *

The proposed AD would require actions that are intended to address the unsafe condition described in the MCAI.

DATES: We must receive comments on this proposed AD by November 16, 2007.

ADDRESSES: You may send comments by any of the following methods:

- *Federal eRulemaking Portal:* Go to <http://www.regulations.gov>. Follow the instructions for submitting comments.
- *Fax:* (202) 493-2251.
- *Mail:* U.S. Department of Transportation, Docket Operations, M-30, West Building, Ground Floor, Room W12-140, 1200 New Jersey Avenue, SE., Washington, DC 20590.

- *Hand Delivery:* U.S. Department of Transportation, Docket Operations, M-30, West Building, Ground Floor, Room W12-40, 1200 New Jersey Avenue, SE., Washington, DC, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

Examining the AD Docket

You may examine the AD docket on the Internet at <http://www.regulations.gov>; or in person at the Docket Operations office between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this proposed AD, the regulatory evaluation, any comments received, and other information. The street address for the Docket Operations office (telephone (800) 647-5527) is in the **ADDRESSES** section. Comments will be available in the AD docket shortly after receipt.

FOR FURTHER INFORMATION CONTACT: Dan Parrillo, Aerospace Engineer, Systems and Flight Test Branch, ANE-172, FAA, New York Aircraft Certification Office, 1600 Stewart Avenue, Suite 410, Westbury, New York 11590; telephone (516) 228-7305; fax (516) 794-5531.

SUPPLEMENTARY INFORMATION:

Comments Invited

We invite you to send any written relevant data, views, or arguments about this proposed AD. Send your comments to an address listed under the **ADDRESSES** section. Include "Docket No. FAA-2007-0047; Directorate Identifier 2007-NM-197-AD" at the beginning of your comments. We specifically invite comments on the overall regulatory, economic, environmental, and energy aspects of this proposed AD. We will consider all comments received by the closing date and may amend this proposed AD based on those comments.

We will post all comments we receive, without change, to <http://www.regulations.gov>, including any personal information you provide. We will also post a report summarizing each substantive verbal contact we receive about this proposed AD.

Discussion

On August 13, 2007, we issued AD 2007-17-07, Amendment 39-15165 (72 FR 46555, August 21, 2007). That AD required actions intended to address an unsafe condition on certain Bombardier Model CL-600-2B19 (Regional Jet

Series 100 & 440) airplanes. The actions required by AD 2007-17-07 correspond, in part, to Canadian airworthiness directive CF-2007-10, dated July 18, 2007 (referred to after this as "the MCAI"), issued by Transport Canada Civil Aviation (TCCA), which is the airworthiness authority for Canada.

Paragraph (1) of Note 2 of AD 2007-17-07 specified that the planned compliance times for certain actions required in the Canadian airworthiness directive would allow enough time to provide notice and opportunity for prior public comment on the merits of those actions and that we were considering further rulemaking to address this issue. We have determined that further rulemaking is indeed necessary, and this proposed AD follows from that determination.

Accordingly, this proposed AD would supersede AD 2007-17-07. This proposed AD would retain the requirements of AD 2007-17-07, i.e., revising the airplane flight manual (AFM) by incorporating the information in Canadair Regional Jet Temporary Revision (TR) RJ/165, dated July 6, 2007, into the AFM and by adding operational procedures to the Limitations section of the AFM; training flight crewmembers and operational control/dispatch personnel on the operational procedures; and doing corrective "maintenance actions." The corrective "maintenance actions" include the cleaning and lubrication of the flexible shafts, and applicable related investigative and corrective actions (which include a detailed inspection of the actuator connector sealant bead for signs of damage or delamination, repair of damaged sealant, and if necessary, a low temperature torque check on the actuator and, if torque test results are not satisfactory, an installation of a serviceable actuator or, if no serviceable actuators are available, contacting the FAA for corrective action). The corrective "maintenance actions" also include installation of metallic seals in the flexible drive-shafts, and applicable related investigative and corrective actions (which include a detailed inspection of the mating surfaces on the flexible drive-shaft for damage (scratches or dents) and, if mating surfaces have damage, cleaning the sealing washer and mating surfaces and applying sealant).

This proposed AD would also require training flight crewmembers on reduced or zero flap landing, and doing additional corrective "maintenance actions" that include a pressure test of the flexible drive-shaft, and corrective actions if necessary. The corrective actions include replacing any flexible drive-shaft which exhibits leakage (any sign of bubbles within one minute during the pressure test in water) with a serviceable flexible drive-shaft; and a low temperature torque test of the flap actuators, and corrective actions (including replacement with a serviceable actuator) if necessary. You may obtain further information by examining the MCAI in the AD docket.

FAA's Determination and Requirements of This Proposed AD

This product has been approved by the aviation authority of another country, and is approved for operation in the United States. Pursuant to our bilateral agreement with the State of Design Authority, we have been notified of the unsafe condition described in the MCAI and service information referenced above. We are proposing this AD because we evaluated all pertinent information and determined an unsafe condition exists and is likely to exist or develop on other products of the same type design.

Differences Between This AD and the MCAI or Service Information

We have reviewed the MCAI and related service information and, in general, agree with their substance. But we might have found it necessary to use different words from those in the MCAI to ensure the AD is clear for U.S. operators and is enforceable. In making these changes, we do not intend to differ substantively from the information provided in the MCAI and related service information.

We might also have proposed different actions in this AD from those in the MCAI in order to follow FAA policies. Any such differences are highlighted in a NOTE within the proposed AD.

Costs of Compliance

Based on the service information, we estimate that this proposed AD would affect about 684 products of U.S. registry. We also estimate that it would take about 27 work-hours per product to comply with the basic requirements of this proposed AD. The average labor rate is \$80 per work-hour. Based on these figures, we estimate the cost of the proposed AD on U.S. operators to be \$1,477,440, or \$2,160 per product.

Authority for This Rulemaking

Title 49 of the United States Code specifies the FAA's authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. "Subtitle VII: Aviation Programs," describes in more detail the scope of the Agency's authority.

We are issuing this rulemaking under the authority described in "Subtitle VII, Part A, Subpart III, Section 44701: General requirements." Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

Regulatory Findings

We determined that this proposed AD would not have federalism implications under Executive Order 13132. This proposed AD would not have a substantial direct effect on the States, on the relationship between the national Government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify this proposed regulation:

1. Is not a "significant regulatory action" under Executive Order 12866;
2. Is not a "significant rule" under the DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979); and
3. Will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

We prepared a regulatory evaluation of the estimated costs to comply with this proposed AD and placed it in the AD docket.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Safety.

The Proposed Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA proposes to amend 14 CFR part 39 as follows:

PART 39—AIRWORTHINESS DIRECTIVES

1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

§ 39.13 [Amended]

2. The FAA amends § 39.13 by removing Amendment 39–15165 (72 FR 46555, August 21, 2007) and adding the following new AD:

Bombardier, Inc. (Formerly Canadair):

Docket No. FAA–2007–0047; Directorate Identifier 2007–NM–197–AD.

Comments Due Date

(a) We must receive comments by November 16, 2007.

Affected ADs

(b) The proposed AD supersedes AD 2007–17–07, Amendment 39–15165.

Applicability

(c) This AD applies to Bombardier Model CL–600–2B19 (Regional Jet Series 100 & 440) airplanes, certificated in any category, serial numbers 7003 through 7990 and 8000 and subsequent.

Subject

(d) Air Transport Association (ATA) of America Code 27: Flight Controls.

Reason

(e) The mandatory continuing airworthiness information (MCAI) states:

* * * * *

The Bombardier CL–600–2B19 airplanes have had a history of flap failures at various positions for several years. Flap failure may result in a significant increase in required landing distances and higher fuel consumption than planned during a diversion. * * *

* * * * *

This AD includes retaining the requirements of the existing AD: Revising the airplane flight manual by incorporating a temporary revision and by adding operational procedures to the Limitations section; training flight crewmembers and operational control/dispatch personnel on the operational procedures; and doing corrective "maintenance actions." The corrective "maintenance actions" include the cleaning and lubrication of the flexible shafts, and applicable related investigative and corrective actions (which include a detailed inspection of the actuator connector sealant bead for signs of damage or delamination, repair of damaged sealant, and if necessary, a low temperature torque check on the actuator and if torque test results are not satisfactory, an installation of a serviceable actuator or, if no serviceable actuators are available, contacting the FAA for corrective action), and installing metallic seals in the flexible drive-shafts, and applicable related investigative and corrective actions (which include a detailed inspection of the mating surfaces on the flexible drive-shaft for damage (scratches or dents), and if mating surfaces have damage, cleaning the sealing washer and mating surfaces and applying sealant). This AD also requires training flight crewmembers on reduced or zero flap landing and doing additional corrective "maintenance actions" that include a pressure test of the flexible drive-shaft and corrective actions (which

include replacing any flexible drive-shaft which exhibits leakage (any sign of bubbles within one minute during the pressure test in water) with a serviceable flexible drive-shaft and a low temperature torque test of the flap actuators and corrective actions (which include installation of a serviceable actuator if torque test results are not satisfactory).

Restatement of Requirements of AD 2007-17-07

(f) Unless already done, do the following actions.

(1) Part I. Airplane Flight Manual (AFM) Change: Within 30 days after September 5, 2007 (the effective date of AD 2007-17-07), revise the Canadair Regional Jet Airplane Flight Manual CSP A-012, by incorporating the information in Canadair Regional Jet Temporary Revision (TR) RJ/165, dated July 6, 2007, into the AFM.

Note 1: The actions required by paragraph (f)(1) of this AD may be done by inserting a copy of Canadair Regional Jet TR RJ/165, dated July 6, 2007, into the Canadair Regional Jet Airplane Flight Manual CSP A-012. When this TR has been included in general revisions of the AFM, the general revisions may be inserted in the AFM.

(2) Part II. Operational Procedures: Within 30 days after September 5, 2007, revise the Limitations Section of the Canadair Regional Jet Airplane Flight Manual CSP A-012, to include the following statement. This may be done by inserting a copy of paragraph (f)(2) of this AD in the AFM.

“1. Flap Extended Diversion

Upon arrival at the destination airport, an approach shall not be commenced, nor shall the flaps be extended beyond the 0 degree position, unless one of the following conditions exists:

a. When conducting a precision approach, the reported visibility (or RVR) is confirmed to be at or above the visibility associated with the landing minima for the approach in use, and can be reasonably expected to remain at or above this visibility until after landing; or

b. When conducting a non-precision approach, the reported ceiling and visibility (or RVR) are confirmed to be at or above the ceiling and visibility associated with the landing minima for the approach in use, and can be reasonably expected to remain at or above this ceiling and visibility until after landing; or

c. An emergency or abnormal situation occurs that requires landing at the nearest suitable airport; or

d. The fuel remaining is sufficient to conduct the approach, execute a missed approach, divert to a suitable airport with the flaps extended to the landing position, conduct an approach at the airport and land with 1000 lb (454 kg) of fuel remaining.

Note 1: The fuel burn factor (as per AFM TR/165) shall be applied to the normal fuel consumption for calculation of the flaps extended missed approach, climb, diversion and approach fuel consumption.

Note 2: Terrain and weather must allow a minimum flight altitude not exceeding 15,000 feet along the diversion route.

Note 3: For the purpose of this AD, a “suitable airport” is an airport that has at

least one useable runway, served by an instrument approach if operating under Instrument Flight Rules (IFR), and the airport is equipped as per the applicable regulations and standards for marking and lighting. The existing and forecast weather for this airport shall be at or above landing minima for the approach in use.

2. Flap Failure After Takeoff

When a takeoff alternate is filed, terrain and weather must allow a minimum flight altitude not exceeding 15,000 feet along the diversion route to that alternate, or other suitable airport. The fuel at departure shall be sufficient to divert to the takeoff alternate or other suitable airport with the flaps extended to the takeoff position, conduct an approach and land with 1000 lb (454 kg) of fuel remaining.

Note: The fuel burn factor (as per AFM TR/165) shall be applied to the normal fuel consumption for calculation of the flaps extended, climb, diversion and approach fuel consumption.

3. Flap Zero Landing

Operations where all useable runways at the destination and alternate airports are forecast to be wet or contaminated (as defined in the AFM) are prohibited during the cold weather season (December to March inclusive in the northern hemisphere) unless one of the following conditions exists:

a. The flap actuators have been verified serviceable in accordance with Part C (Low Temperature Torque Test of the Flap Actuators) of SB 601R-27-150, July 12, 2007, or

b. The flight is conducted at a cruise altitude where the SAT is -60 deg C or warmer. If the SAT in flight is colder than -60 deg C, descent to warmer air shall be initiated within 10 minutes, or

c. The Landing Distance Available on a useable runway at the destination airport is at least equal to the actual landing distance required for flaps zero. This distance shall be based on Bombardier performance data, and shall take into account forecast weather and anticipated runway conditions, or

d. The Landing Distance Available on a useable runway at the filed alternate airport, or other suitable airport is at least equal to the actual landing distance for flaps zero. This distance shall be based on Bombardier performance data, and shall take into account forecast weather and anticipated runway conditions.

Note 1: If the forecast destination weather is less than 200 feet above DH or MDA, or less than 1 mile (1500 meters) above the authorized landing visibility (or equivalent RVR), as applied to the useable runway at the destination airport, condition 3.a., 3.b., or 3.d. above must be satisfied.

Note 2: When conducting No Alternate IFR (NAIFR) operations, condition 3.a., 3.b., or 3.c. above must be satisfied.”

(3) Part III. Training: As of 30 days after September 5, 2007, no affected airplane may be operated unless the flight crewmembers of that airplane and the operational control/dispatch personnel for that airplane have received training that is acceptable to the

Principal Operations Inspector (POI) on the operational procedures required by paragraph (f)(2) of this AD.

(4) Part IV. Maintenance Actions: Within 120 days after September 5, 2007, do the cleaning and lubrication of the flexible shafts, installation of metallic seals in the flexible drive-shafts, and all applicable related investigative and corrective actions by doing all the applicable actions specified in “PART A” of the Accomplishment Instructions of Bombardier Service Bulletin 601R-27-150, dated July 12, 2007; except if torque test results are not satisfactory, before further flight, install a serviceable actuator in accordance with the service bulletin or, if no serviceable actuators are available, contact the Manager, New York Aircraft Certification Office, FAA, for corrective action. Do all applicable related investigative and corrective actions before further flight.

New Requirements of This AD: Actions and Compliance

(g) Unless already done, do the following actions.

(1) As of November 30, 2008, no affected airplane may be operated unless the flight crewmembers of that airplane have received simulator training on reduced or zero flap landing that is acceptable to the Principal Operations Inspector (POI). Thereafter, this training must be done during the normal simulator training cycle, at intervals not to exceed 12 months.

(2) Within 24 months or 4,000 flight hours after the effective date of this AD, whichever occurs first: Do a pressure test of the flexible drive-shaft, and do all applicable corrective actions, by doing all the applicable actions specified in “PART B” of the Accomplishment Instructions of Bombardier Service Bulletin 601R-27-150, dated July 12, 2007. Do all applicable corrective actions before further flight.

(3) Within 24 months after the effective date of this AD: Do a low temperature torque test of the flap actuators, and do all applicable corrective actions, by doing all the applicable actions specified in “PART C” of the Accomplishment Instructions of Bombardier Service Bulletin 601R-27-150, dated July 12, 2007. Do all applicable corrective actions before further flight.

FAA AD Differences

Note 2: This AD differs from the MCAI and/or service information as follows:

(1) The maintenance tasks specified in the first row of the table in “Part IV. Maintenance Actions” of the MCAI do not specify a corrective action if an actuator is not serviceable (i.e., torque test results are not satisfactory). However, this AD requires contacting the FAA or installing a serviceable actuator before further flight if torque test results are not satisfactory. (Reference paragraph (f)(4) of this AD.)

(2) Although paragraph 2. of “Part III. Training” of the MCAI recommends accomplishing the initial training within 1 year, this AD requires accomplishing the training before November 30, 2008, in order to ensure that the actions are completed prior to the onset of cold weather operations.

Other FAA AD Provisions

(h) The following provisions also apply to this AD:

(1) *Alternative Methods of Compliance (AMOCs)*: The Manager, New York Aircraft Certification Office, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. Send information to ATTN: Dan Parrillo, Aerospace Engineer, Systems and Flight Test Branch, ANE-172, FAA, New York Aircraft Certification Office, 1600 Stewart Avenue, Suite 410, Westbury, New York 11590; telephone (516) 228-7305; fax (516) 794-5531. Before using any approved AMOC on any airplane to which the AMOC applies, notify your appropriate principal inspector (PI) in the FAA Flight Standards District Office (FSDO), or lacking a PI, your local FSDO.

(2) *Airworthy Product*: For any requirement in this AD to obtain corrective actions from a manufacturer or other source, use these actions if they are FAA-approved. Corrective actions are considered FAA-approved if they are approved by the State of Design Authority (or their delegated agent). You are required to assure the product is airworthy before it is returned to service.

(3) *Reporting Requirements*: For any reporting requirement in this AD, under the provisions of the Paperwork Reduction Act, the Office of Management and Budget (OMB) has approved the information collection requirements and has assigned OMB Control Number 2120-0056.

Related Information

(i) Refer to MCAI Canadian Airworthiness Directive CF-2007-10, dated July 18, 2007; Bombardier Service Bulletin 601R-27-150, dated July 12, 2007; and Canadair Regional Jet Temporary Revision RJ/165, dated July 6, 2007, to the Canadair Regional Jet Airplane Flight Manual CSP A-012; for related information.

Issued in Renton, Washington, on October 9, 2007.

Ali Bahrami,

*Manager, Transport Airplane Directorate,
Aircraft Certification Service.*

[FR Doc. E7-20465 Filed 10-16-07; 8:45 am]

BILLING CODE 4910-13-P

DEPARTMENT OF TRANSPORTATION**Federal Aviation Administration****14 CFR Part 39**

[Docket No. FAA-2007-0046; Directorate Identifier 2007-NM-173-AD]

RIN 2120-AA64

Airworthiness Directives; Boeing Model 737-100, -200, -200C, -300, -400, and -500 Series Airplanes

AGENCY: Federal Aviation Administration (FAA), Department of Transportation (DOT).

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: The FAA proposes to adopt a new airworthiness directive (AD) for all Boeing Model 737-100, -200, -200C, -300, -400, and -500 series airplanes. This proposed AD would require repetitive inspections for any cracking of or damage to the left side and right side flight deck No. 2, No. 4, and No. 5 windows and corrective actions if necessary. This proposed AD results from reports of in-flight departure and separation of the flight deck windows. We are proposing this AD to detect and correct cracking in the vinyl interlayer or damage to the structural inner glass panes of the flight deck No. 2, No. 4, and No. 5 windows, which could result in loss of a window and rapid loss of cabin pressure. Loss of cabin pressure could cause crew communication difficulties or crew incapacitation.

DATES: We must receive comments on this proposed AD by December 3, 2007.

ADDRESSES: You may send comments by any of the following methods:

- *Federal eRulemaking Portal:* Go to <http://www.regulations.gov>. Follow the instructions for submitting comments.
- *Fax:* 202-493-2251.
- *Mail:* U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue, SE., Washington, DC 20590.
- *Hand Delivery:* U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue, SE., Washington, DC 20590, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

For service information identified in this AD, contact Boeing Commercial Airplanes, P.O. Box 3707, Seattle, Washington 98124-2207.

Examining the AD Docket

You may examine the AD docket on the Internet at <http://www.regulations.gov>; or in person at the Docket Management Facility between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this proposed AD, the regulatory evaluation, any comments received, and other information. The street address for the Docket Office (telephone 800-647-5527) is in the **ADDRESSES** section. Comments will be available in the AD docket shortly after receipt.

FOR FURTHER INFORMATION CONTACT: Wayne Lockett, Aerospace Engineer, Airframe Branch, ANM-120S, FAA, Seattle Aircraft Certification Office,

1601 Lind Avenue, SW., Renton, Washington 98057-3356; telephone (425) 917-6447; fax (425) 917-6590.

SUPPLEMENTARY INFORMATION:**Comments Invited**

We invite you to send any written relevant data, views, or arguments about this proposed AD. Send your comments to an address listed under the **ADDRESSES** section. Include "Docket No. FAA-2007-0046; Directorate Identifier 2007-NM-173-AD" at the beginning of your comments. We specifically invite comments on the overall regulatory, economic, environmental, and energy aspects of this proposed AD. We will consider all comments received by the closing date and may amend this proposed AD because of those comments.

We will post all comments we receive, without change, to <http://www.regulations.gov>, including any personal information you provide. We will also post a report summarizing each substantive verbal contact we receive about this proposed AD.

Discussion

We have received one report of in-flight departure of the flight deck No. 3 window, on a Boeing Model 747 series airplane, which resulted in rapid loss of cabin pressure and an emergency landing. That airplane had accumulated 36,131 total flight hours and 5,607 total flight cycles. We have also received two reports of in-flight separation of the left side flight deck No. 5 window, on two Boeing Model 737 series airplanes. One of the Model 737 series airplanes experienced cabin pressure loss at 12,500 feet due to separation of the forward, aft, and upper edges of the left side flight deck No. 5 window. That airplane had accumulated 25,673 total flight hours and 15,669 total flight cycles. The other Model 737 series airplane experienced a pressure leak at 29,000 feet due to partial separation of the upper aft corner of the left side flight deck No. 5 window. That airplane had accumulated 28,139 total flight hours and 16,566 total flight cycles. Vinyl interlayer cracking of the flight deck No. 2, No. 4, and No. 5 windows could decrease the load carrying capability of the affected windows during cabin pressurization if the structural glass pane of the window becomes broken. Vinyl interlayer cracking could also decrease the bird impact resistance capability of the flight deck No. 2 and No. 4 windows. Cracking in the vinyl interlayer or damage to the structural inner glass panes of the flight deck No. 2, No. 4, and No. 5 windows, if not corrected, could result in loss of a