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INFORMATION
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APPENDIX A TO SUBPART B OF PART 53—OPTIONAL FORMS FOR REPORTING TEST RESULTS

NOISE TEST DATA

Applicant _____ Date _____

Analyzer _____ Pollutant _____

Range _____ Test No. _____

READING NUMBER (i)	TIME	0% of URL		80% of URL	
		DM READING	r_i, ppm	DM READING	r_i, ppm
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
STD. DEVIATION		S_0 =		S_{80} =	

Figure B-2. Form for noise test data (see §53.23(b)).

LDL and INTERFERENCE TEST DATA

Applicant _____ Date _____

Analyzer _____ Pollutant _____

TEST PARAMETER		READING or CALCULATION	TEST NUMBER														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
LOWER DETECTABLE LIMIT		B_Z															
		B_L															
		$LDL = B_L - B_Z$															
INTER-FERENCE EQUIV-ALENT	1	R_1															
		R_{I1}															
		$IE = R_{I1} - R_1$															
	2	R_2															
		R_{I2}															
		$IE = R_{I2} - R_2$															
	3*	R_3															
		R_{I3}															
		$IE = R_{I3} - R_3$															
	4*	R_4															
		R_{I4}															
		$IE = R_{I4} - R_4$															
	5*	R_5															
		R_{I5}															
		$IE = R_{I5} - R_5$															
	TOTAL*	$\sum_{i=1}^{n} \lvert IE_i \rvert$															

*If required.

Figure B-3. Form for test data and calculations for lower detectable limit (LDL) and interference equivalent (IE) (see § 53.23(c) and (d)).

DRIFT AND PRECISION TEST DATA

Applicant _____ Date _____

Analyzer _____ Pollutant _____

	ANALYZER READING, ppm															
TEST DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
DATE																
P_1																
P_2																
P_3																
P_4																
P_5																
P_6																
P_7																
P_8																
P_9																
P_{10}																
P_{11}																
P_{12}																
$S_n = \frac{1}{6}\sum_{i=7}^{12} P_i$																
L_1																
L_2																
Z'_n																
S'_n																
C_{max}																
C_{min}																

Figure B-4. Form for drift and precision test data (see § 53.23(e)).

CALCULATION OF ZERO DRIFT, SPAN DRIFT, AND PRECISION

Applicant _____ Date _____

Analyzer _____ Pollutant _____

TEST PARAMETER		CALCULATION	TEST DAY (n)														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ZERO DRIFT	12 HOUR	$12ZD = C_{max} - C_{min}$															
	24 HOUR	$Z = (L_1 + L_2)/2$															
		$24ZD = Z_n - Z_{n-1}$															
		$24ZD = Z'_n - Z'_{n-1}$															
SPAN DRIFT	24 HOUR	$S_n = \frac{1}{6}\sum_{i=7}^{12} P_i$															
		$SD_n = \frac{S_n - S_{n-1}}{S_{n-1}} \times 100\%$															
		$SD_n = \frac{S_n - S'_{n-1}}{S'_{n-1}} \times 100\%$															
PREC-ISION	20% URL (P_{20})	P_{20} = STANDARD DEVIATION of ($P_1 \ldots P_6$)															
	80% URL (P_{80})	P_{80} = STANDARD DEVIATION of ($P_7 \ldots P_{12}$)															

Figure B-5. Form for calculating zero drift, span drift, and precision (§ 53.23(e)).

TEST DATA SUMMARY

Applicant _____ Analyst _____

Analyzer _____ Pollutant _____

Range _____ Other information _____

Test dates _____

Performance Parameter		Table B-1 Spec.	Test Number (first set) 1	2	3	4	5	6	7	Test Number (second set) 8	9	10	11	12	13	14	15	Number of Failures	Pass or Fail
Noise, ppm	0% URL																		
	80% URL																		
LDL (> 2 x 0% noise)																			
Interference Equivlent, ppm	IE1																		
	IE2																		
	IE3																		
	IE4																		
	IE5																		
	IE6																		
	Total																		
Zero Drift, ppm	12 hr																		
	24 hr.																		
Span Drift, %	80% URL																		
Lag Time, min																			
Rise Time, min																			
Fall Time, min																			
Precision, percent	20% URL																		
	80% URL																		

Figure B-6. Form for reporting a summary of the test results (see § 53.23).

Subpart C—Procedures for Determining Comparability Between Candidate Methods and Reference Methods

SOURCE: 71 FR 61278, Oct. 17, 2006, unless otherwise noted.

§ 53.30 General provisions.

(a) *Determination of comparability.* The test procedures prescribed in this subpart shall be used to determine if a candidate method is comparable to a reference method when both methods measure pollutant concentrations in ambient air. Minor deviations in testing requirements and acceptance requirements set forth in this subpart, in connection with any documented extenuating circumstances, may be determined by the Administrator to be acceptable, at the discretion of the Administrator.

(b) *Selection of test sites.* (1) Each test site shall be in an area which can be shown to have at least moderate concentrations of various pollutants. Each site shall be clearly identified and shall be justified as an appropriate test site with suitable supporting evidence such as a description of the surrounding