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Specification	PM_{10}	$PM_{2.5}$			$PM_{10-2.5}$	
		Class I	Class II	Class III	Class II	Class III
Each season	10	23	23	23	23	
Total, each site	10	23	23 (46 for two-season sites)	23	23 (46 for two-season sites)	
Precision of replicate reference method measurements, P_{Rj} or RP_{Rj}, respectively; RP for Class II or III $PM_{2.5}$ or $PM_{10-2.5}$, maximum.	5 μg/m³ or 7%.	2 μg/m³ or 5%.	10%[2]	10%[2]	10%[2]	10%[2]
Precision of $PM_{2.5}$ or $PM_{10-2.5}$ candidate method, CP, each site.	10%[2]	15%[2]	15%[2]	15%[2]		
Slope of regression relationship.	1 ± 0.10	1 ± 0.05	1 ± 0.10	1 ± 0.10	1 ± 0.10	1 ± 0.12
Intercept of regression relationship, μg/m³.	0 ± 5	0 ± 1	Between: 13.55 − (15.05 × slope), but not less than −1.5; and 16.56 − (15.05 × slope), but not more than +1.5	Between: 15.05 − (17.32 × slope), but not less than −2.0; and 15.05 − (13.20 × slope), but not more than +2.0	Between: 62.05 − (70.5 × slope), but not less than −3.5; and 78.95 − (70.5 × slope), but not more than +3.5	Between: 70.50 − (82.93 × slope), but not less than −7.0; and 70.50 − (61.16 × slope), but not more than +7.0
Correlation of reference method and candidate method measurements.	≥ 0.97	≥ 0.97	≥ 0.93—for CCV ≤ 0.4; ≥ 0.85 + 0.2 × CCV—for 0.4 ≤ CCV ≤ 0.5; ≥ 0.95—for CCV ≥ 0.5			

[1] Some missing daily measurement values may be permitted; see test procedure.
[2] Calculated as the root mean square over all measurement sets.

[72 FR 32203, June 12, 2007]

TABLE C–5 TO SUBPART C OF PART 53—SUMMARY OF COMPARABILITY FIELD TESTING CAMPAIGN SITE AND SEASONAL REQUIREMENTS FOR CLASS II AND III FEMS FOR $PM_{10-2.5}$ AND $PM_{2.5}$

Candidate method	Test site	A	B	C	D
$PM_{2.5}$	Test site location area.	Los Angeles basin or California Central Valley.	Western city such as Denver, Salt Lake City, or Albuquerque.	Midwestern city	Northeastern or mid-Atlantic city.
	Test site characteristics.	Relatively high $PM_{2.5}$, nitrates, and semi-volatile organic pollutants.	Cold weather, higher elevation, winds, and dust.	Substantial temperature variation, high nitrates, wintertime conditions.	High sulfate and high relative humidity.
	Class III Field test campaigns (Total: 5).	Winter and summer.	Winter only	Winter only	Summer only.
	Class II Field test campaigns (Total: 2).	Site A or B, any season		Site C or D, any season.	
$PM_{10-2.5}$	Test site location area.	Los Angeles basin or California Central Valley.	Western city such as Las Vegas or Phoenix.	Midwestern city	Large city east of the Mississippi River.
	Test site characteristics.	Relatively high $PM_{2.5}$, nitrates, and semi-volatile organic pollutants.	High $PM_{10-2.5}$ to $PM_{2.5}$ ratio, wind-blown dust.	Substantial temperature variation, high nitrates, wintertime conditions.	High sulfate and high relative humidity.
	Class III Field test campaigns (Total: 5).	Winter and summer.	Winter only	Winter only	Summer only.

Candidate method	Test site	A	B	C	D
	Class II Field test campaigns (Total: 2).	Site A or B, any season		Site C or D, any season.	

FIGURE C–1 TO SUBPART C OF PART 53—SUGGESTED FORMAT FOR REPORTING TEST RESULTS FOR METHODS FOR SO_2, CO, O_3, NO_2

Candidate Method _____

Reference Method _____

Applicant _____

☐ First Set ☐ Second Set ☐ Type ☐ 1 Hour ☐ 24 Hour

Concentration range		Date	Time	Concentration, ppm		Difference	Table C–1 spec.	Pass or fail
				Candidate	Reference			
Low	1							
_____ ppm	2							
to _____ ppm	3							
	4							
	5							
	6							
Medium	1							
_____ ppm	2							
to _____ ppm	3							
	4							
	5							
	6							
High	1							
_____ ppm	2							
to _____ ppm	3							
	4							
	5							
	6							
	7							
	8							
							Total Failures:	

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