

SUMMARY OF EPA EMISSION TEST METHODS
Title 40
Office of Air Quality Planning and Standards

Method		Reference	Date	Description
Part 51, Appendix M				
201		55 FR 14246	04/17/1990	PM-10 (EGR procedure)
		55 FR 37606	09/12/1990	Correction of equations
201A		55 FR 14246	04/17/1990	PM-10 (CSR procedure)
		55 FR 24687	06/18/1990	Correction of equations
	P	74 FR 12970	03/25/2009	Revisions
		75 FR 80118	12/21/2010	Filterable PM ₁₀ and PM _{2.5} (CSR procedure)
		79 FR 11228	02/27/2014	Numerous corrections and clarifications
		81 FR 59800	08/30/2016	Corrects Equation 9
		83 FR 56713	11/14/2018	Corrects Equation 24
202		56 FR 65433	12/17/1991	Condensible PM
	P	74 FR 12970	03/25/2009	Revisions
		75 FR 80118	12/21/2010	Condensible PM
		79 FR 11228	02/27/2014	Numerous corrections
		81 FR 59800	08/30/2016	Numerous corrections and revisions
203	P	57 FR 46114	10/07/1992	COMS QA for compliance. (See Part 60, App F, Proc 3)
203A	P	58 FR 61640	11/22/1993	Visible Emissions - 2-6 min avg
		71 FR 55119	09/21/2006	Visible Emissions - 2-6 min avg

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203B	P	58 FR 61640	11/22/1993	Visible Emissions - time exceptions
		71 FR 55119	09/21/2006	Visible Emissions - time exceptions
203C	P	58 FR 61640	11/22/1993	Visible Emissions - instantaneous
		71 FR 55119	09/21/2006	Visible Emissions - instantaneous
204		62 FR 32500	06/16/1997	VOC Capture Efficiency
		83 FR 56713	11/14/2018	Correction to equation 204-2 statement
204A		62 FR 32500	06/16/1997	VOC Capture Efficiency
204B		62 FR 32500	06/16/1997	VOC Capture Efficiency
204C		62 FR 32500	06/16/1997	VOC Capture Efficiency
204D		62 FR 32500	06/16/1997	VOC Capture Efficiency
204E		62 FR 32500	06/16/1997	VOC Capture Efficiency
204F		62 FR 32500	06/16/1997	VOC Capture Efficiency
205		59 FR 19590	05/30/1994	Dilution calibration verification
		83 FR 56713	11/14/2018	Gas dilution system calibration; reporting calibration results
206		(Now CTM-027)		Ammonia (NH ₃)
207	P	62 FR 64532	12/8/1997	Isocyanates (never finalized, became OTM-14, and finalized as Method 326)
		73 FR 30775	05/29/2008	Presurvey procedure for corn wet-milling
208		Tentative		VOC from Hot Mix Asphalt Dryers

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Part 60, Appendix A			
1-8	42 FR 41754	08/18/1977	Velocity, Orsat, PM, SO ₂ , NO _x , etc
	43 FR 11984	03/23/1978	Corr. and amend. to M1 thru 8
1-24	52 FR 34639	09/14/1987	Technical corrections
	52 FR 42061	11/02/1987	Corrections
2-25	55 FR 47471	11/14/1990	Technical amendments
1-29	P 62 FR 45639	08/27/1997	Reformat and revise methods
	65 FR 61744	10/17/2000	Reformat and revise methods
1	48 FR 45034	09/30/1983	Reduction of number of traverse points
	51 FR 20286	06/4/1986	Alternative procedure for site selection
	79 FR 11228	02/27/2014	Corrects Figures 1-1 and 1-2
	81 FR 59800	08/30/2016	Corrects typo; omits inserted text; deletes redundant figure
1	54 FR 12621	03/28/1989	Traverse points in small ducts
2	79 FR 11288	02/27/2014	Various additions and corrections
	81 FR 59800	8/30/2016	Enhances QA/QC for calibrations; various corrections
2A	48 FR 37592	08/18/1983	Flow rate in small ducts - vol. meters
	79 FR 11228	02/27/2014	Calibrating barometer against NIST-traceable barometer
2B	48 FR 37594	08/18/1983	Flow rate – stoichiometry
	79 FR 11228	02/27/2014	Nomenclature corrected; rev. assumed ambient CO ₂ conc.
2C	54 FR 12621	03/28/1989	Flow rate in small ducts - std. pitot
2D	54 FR 12621	03/28/1989	Flow rate in small ducts - rate meters
	79 FR 11228	02/27/2014	Calibrating barometer against NIST-traceable barometer
2E	61 FR 9929	03/12/1996	Flow rate from landfill wells
2F	64 FR 26484	05/14/1999	3D pitot for velocity

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2G		64 FR 26484	05/14/1999	2D pitot for velocity
		81 FR 59800	08/30/2016	Enhances QA/QC for calibrations; revised rotational speed
2H		64 FR 26484	05/14/1999	Velocity decay near the stack wall
	P	74 FR 42819	08/25/2009	Revisions
3		48 FR 49458	10/25/1983	Addition of QA/QC
3		55 FR 05211	02/14/1990	Molecular weight
3A		51 FR 21164	06/11/1986	Instrumental method for O ₂ and CO ₂
	P	68 FR 58838	10/10/2003	Proposed revisions
		71 FR 28082	05/15/2006	Promulgated revisions
		73 FR 29691	05/22/2008	Final technical corrections
		79 FR 11228	02/27/2014	Deleted redundancy
3B		55 FR 05211	02/14/1990	Orsat for correction factors and excess air
		55 FR 18876	05/07/1990	Method 3B applicability
3C		61 FR 9929	03/12/1996	Gas composition from landfill gases
		79 FR 11228	02/27/2014	Adds eqn. to correct sample N ₂ conc. for tank dilution
		81 FR 59800	08/30/2016	Clarifies requirements for checking analyzer linearity
4		48 FR 55670	12/14/1983	Addition of QA/QC.
		79 FR 11228	02/27/2014	Rev. leak rate exceedance; moisture determination alts.
5		45 FR 66752	10/07/1980	Filter specification change
		48 FR 55670	12/14/1983	Addition of QA/QC
		48 FR 39010	08/26/1983	DGM revision
		50 FR 01164	01/09/1985	Incorporate DGM and probe cal. procedures
		52 FR 09657	03/26/1987	Use of critical orifices as cal stds
		52 FR 22888	06/16/1987	Corrections
		79 FR 11228	02/27/2014	Numerous clarifications, corrections, and additions
		81 FR 59800	08/30/2016	Numerous clarifications, corrections, and additions
		83 FR 56713	11/14/2018	Allows use of a single temperature sensor

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5A	47 FR 34137	08/06/1982	PM from asphalt roofing (Prop. as M26)
	51 FR 32454	09/12/1986	Adds QA/QC
	79 FR 11228	02/27/2014	Allows mercury free thermometers
5B	51 FR 42839	11/26/1986	Nonsulfuric acid PM
	83 FR 56713	11/14/2018	Specifies analytical procedures; req'd. reporting results
5C	Tentative		PM from small ducts
5D	49 FR 43847	10/31/1984	PM from fabric filters
	51 FR 32454	09/12/1986	Adds QA/QC
5E	50 FR 07701	02/25/1985	PM from fiberglass plants
	79 FR 11228	02/27/2014	Replaces TOC analyzer; corrected Fig. 5E-5 label
5F	51 FR 42839	11/26/1986	PM from FCCU
	53 FR 29681	08/08/1988	Barium titration procedure
5G	53 FR 05860	02/26/1988	PM from wood stove - dilution tunnel
5H	53 FR 05860	02/26/1988	PM from wood stove – stack
	79 FR 11228	02/27/2014	Adds nomenclature & alt. tracer gas flow rate procedures
	81 FR 59800	08/30/2016	Various revisions and additions
5I	64 FR 53027	09/30/1999	PM for RATA of PM CEMS
	65 FR 42292	07/10/2000	Eliminates the RSD criterion for low PM levels
	81 FR 59800	08/30/2016	Various revisions and additions
6	P 48 FR 133389	03/30/1983	Audit samples
	49 FR 26522	06/27/1984	Added QA/QC requirements for audit samples
	48 FR 39010	08/26/1983	DGM revision
	52 FR 41423	10/28/1987	Use of critical orifices for FR/vol meas
	79 FR 11228	02/27/2014	Alts. for calibrating a temperature sensor and barometer
6A	47 FR 54073	12/01/1982	SO ₂ /CO ₂ - manual method
	49 FR 09684	03/14/1984	Incorporated collaborative tests changes
	51 FR 32454	09/12/1986	Addition of QA/QC
6B	47 FR 54073	12/01/1982	Auto SO ₂ /CO ₂
	49 FR 09684	03/14/1984	Incorporated collaborative tests changes
	51 FR 32454	09/12/1986	Addition of QA/QC

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Method		Reference	Date	Description
6C		51 FR 21164	06/11/1986	Instrumental method for SO ₂
		52 FR 18797	05/27/1987	Corrections
	P	68 FR 58838	10/10/2003	Proposed revisions
		71 FR 28082	05/15/2006	Promulgated revisions
		73 FR 29691	05/22/2008	Final technical corrections
		79 FR 11228	02/27/2014	Corrects reference; added potential quenching effects
		81 FR 59800	08/30/2016	Rev. interference checks method; deleted quenching text
7	P	48 FR 133389	03/30/1983	Audit samples
7		49 FR 26522	06/27/1984	Added QA/QC requirements for audit samples
		79 FR 11228	02/27/2014	Sampling when high SO ₂ ; cal. alts-T sensor and barometer
		83 FR 56713	11/14/2018	Corrects erroneous reference to a section
7A		48 FR 55072	12/08/1983	Ion chromatograph NO _x analysis
		53 FR 20139	06/02/1988	ANPRM
		55 FR 21752	05/29/1990	Revisions
		79 FR 11228	02/27/2014	Sampling when high SO ₂ ; alt. for calibrating T sensor
		Tentative		High SO ₂ interference
7B		50 FR 15893	04/23/1985	UV NO _x analysis for nitric acid plants
		Tentative		High SO ₂ interference
7C		49 FR 38232	09/27/1984	Alkaline permanganate/colorimetric for NO _x
7D		49 FR 38232	09/27/1984	Alkaline permanganate/IC for NO _x
7E		51 FR 21164	06/11/1986	Instrumental method for NO _x
	P	68 FR 58838	10/10/2003	Proposed revisions
		71 FR 28082	05/15/2006	Promulgated revisions
		73 FR 29691	05/22/2008	Final technical corrections
		79 FR 11228	02/27/2014	Revises, clarifies, and allows alternative sampling bags
		81 FR 59800	08/30/2016	Rev. 3-point sampling line requirement; deleted quenching

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8		36 FR 24876	12/23/1971	Sulfuric acid mist and SO ₂
		42 FR 41754	08/18/1977	Addition of particulate and moisture
		43 FR 11984	03/23/1978	Miscellaneous corrections
		79 FR 11228	02/27/2014	Corrects error in V _{soln} definition; revised Fig. 8-1
		83 FR 56713	11/14/2018	Addition, correction, revision, and alt. to use PTFE union
9		39 FR 39872	11/12/1974	Opacity
9A		46 FR 53144	10/28/1981	LIDAR opacity; called Alternative 1
10		39 FR 09319	03/08/1978	CO
		53 FR 41333	10/21/1988	Alternative trap
	P	68 FR 58838	10/10/2003	Proposed revisions
		71 FR 28082	05/15/2006	Promulgated revisions
		73 FR 29691	05/22/2008	Final technical corrections
		79 FR 11228	02/27/2014	Use of sample tanks as an alternative to flexible bags
		81 FR 59800	08/30/2016	Clarifies sample tanks allowed for integrated sampling
10A		52 FR 30674	08/17/1987	Colorimetric method for PS-4
		52 FR 33316	09/02/1987	Correction notice
		79 FR 11228	02/27/2014	Allows alternative sampling bags
		81 FR 59800	08/30/2016	Allows sample tanks for sample collection
10B		53 FR 41333	10/21/1988	GC method for PS-4
		79 FR 11228	02/27/2014	Allows alternative sampling bags
		81 FR 59800	08/30/2016	Allows sample tanks for sample collection
11		43 FR 01494	01/10/1978	H ₂ S
		79 FR 11228	02/27/2014	Additional collection impinger; alternative thermometer

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12	47 FR 16564	04/16/1982	Pb
	49 FR 33842	08/24/1984	Incorporated method of additions
	79 FR 11228	02/27/2014	ICP-AES and CVAFS alts. to atomic absorption analysis
13A	45 FR 41852	06/20/1980	F - colorimetric method
	45 FR 85016	12/24/1980	Corrections to inadvertent and typographical errors
13B	45 FR 41852	06/20/1980	F - SIE method
	45 FR 85016	12/24/1980	Corrections to inadvertent and typographical errors
14	45 FR 44202	06/30/1980	F from roof monitors
14A	62 FR 52383	10/7/1997	F from roof monitors- Alcan cassettes
	79 FR 11228	02/27/2014	Corrects reference from Figure 5-6 to Figure 5-5
15	43 FR 10866	03/15/1978	TRS from petroleum refineries
	54 FR 46236	11/2/1989	Revisions
	54 FR 51550	12/15/1989	Correction notice
	81 FR 59800	08/30/2016	Clarifies calibrations that represent partial calibration
15A	52 FR 20391	06/01/1987	TRS alternative/oxidation
16	43 FR 07568	02/23/1978	TRS from kraft pulp mills
	43 FR 34784	08/07/1978	Amend. to M16, H ₂ S loss after filters
	44 FR 02578	01/12/1979	Amend. to M16, SO ₂ scrubber added
	54 FR 46236	11/02/1989	Revisions
	55 FR 21752	05/29/1990	Correction of figure ($\pm 10\%$)
	79 FR 11228	02/27/2014	Various corrections, clarifications, and addition
16A	50 FR 09578	03/8/1985	TRS alternative
	52 FR 36408	09/29/1987	Cylinder gas analysis alternative method
	53 FR 02914	02/02/1988	Editorial correction
	79 FR 11228	02/27/2014	Adds note to applicability section re: biased results

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16B	52 FR 36408	09/29/1987	TRS alternative/GC analysis of SO ₂
	53 FR 02914	02/02/1988	Editorial correction
16C	77 FR 44488	07/30/2012	TRS emissions/real-time
	79 FR 11228	02/27/2014	Corrects total reduced sulfur nomenclature and equation
	81 FR 59800	08/30/2016	Revises equation 16C-1; various changes to nomenclature
17	43 FR 07568	02/23/1978	PM, in-stack
18	48 FR 48344	10/18/1983	VOC, general GC method
	49 FR 22608	05/30/1984	Corrections to M18
	52 FR 51105	02/19/1987	Revisions to improve method
	52 FR 10852	04/03/1987	Corrections
	59 FR 19308	04/22/1994	Revisions to improve QA/QC
	79 FR 11228	02/27/2014	Allows alternative sampling bags other than Tedlar
	81 FR 59800	0/30/2016	Deletes redundant req'ment. to analyze field audit samples
	83 FR 56713	11/14/2018	Corrects erroneous paragraph designation
19	44 FR 33580	06/11/1979	F-factor, coal sampling
	52 FR 47826	12/16/1987	M19A incorp. into M19
	48 FR 49460	10/25/1983	Corr. to F factor equations and F _c value
20	44 FR 52792	09/10/1979	NO _x from gas turbines
	47 FR 30480	07/14/1982	Corrections and amendments
	51 FR 32454	09/12/1986	Clarifications
	P 68 FR 58838	10/10/2003	Proposed revisions
	71 FR 28082	05/15/2006	Promulgated revisions
	73 FR 29691	05/22/2008	Final technical corrections
21	48 FR 37598	08/18/1983	VOC leaks
	49 FR 56580	12/22/1983	Corrections to Method 21
	55 FR 25602	06/22/1990	Clarifying revisions

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22		47 FR 34137	08/06/1982	Fugitive VE
		48 FR 48360	10/18/1983	Add smoke emission from flares
		83 FR 56713	11/14/2018	Allows digital photography
23		56 FR 5758	02/13/1991	Dioxin/dibenzo furan
	P	60 FR 28378	05/31/1995	Revisions and corrections
		79 FR 11228	02/27/2014	Deletes req'ment. to store silica gel in metal container, etc
24		45 FR 65956	10/03/1980	Solvent in surface coatings
		Tentative		Solvent in water-borne coatings
		57 FR 30654	07/10/1992	Multicomponent coatings
		60 FR 47095	09/11/1995	Radiation-cured coatings
		79 FR 11228	02/27/2014	Deletes section numbers in ASTM Meth D2369 reference
24A		47 FR 50644	11/08/1982	Solvent in ink (Prop. as M29)
25		45 FR 65956	10/03/1980	Total Gaseous Nonmethane Organic Emissions
		53 FR 04140	02/12/1988	Revisions to improve method
		53 FR 11590	04/07/1988	Correction notice
		79 FR 11228	02/27/2014	Adds detailed description of filters for sample collection
25A		48 FR 37595	08/18/1983	TOC/FID
25B		48 FR 37597	08/18/1983	TOC/NDIR
25C		61 FR 9929	03/12/1996	VOC from landfills
		79 FR 11228	02/27/2014	Allows Teflon sampling lines & alternative to pilot probes
		81 FR 59800	08/30/2016	Numerous changes
25D		59 FR 19311	04/22/1994	VO from TSDF - purge procedure
		79 FR 11228	02/27/2014	Corrects cross-references
25E		59 FR 62896	12/06/1994	VO from TSDF - vapor pressure procedure

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26	56 FR 5758	02/13/1991	HCl
	57 FR 24550	06/10/1992	Corrections to Method 26
	59 FR 19309	04/22/1994	Additions to M26 of halogens, other hydrogen halides
	79 FR 11228	02/27/2014	Various changes
	81 FR 59800	08/30/2016	Corrects the method detection limit
	83 FR 56713	11/14/2018	Allows the use of glass sample storage containers
26A	59 FR 19309	04/22/1994	Isokinetic HCl, halogens, hydrogen halides
	79 FR 11228	02/27/2014	Clarifies that T of probe & filter must be 120-134°C
	81 FR 59800	08/30/2016	Additions and corrections
	83 FR 56713	11/14/2018	High-density polyethylene/glass sample storage containers
27	48 FR 37597	08/18/1983	Tank truck leaks
28	53 FR 05860	02/26/1988	Wood stove certification
28A	53 FR 05860	02/26/1988	Air to fuel ratio
28R	79 FR 6394	02/03/2014	Certification and Auditing of Wood Heaters
28WHH	79 FR 6394	02/03/2014	PM measurement and heating efficiency of wood fired hydronic heaters
	83 FR 56713	11/14/2018	Corrects equation
28WHH PTS	79 FR 6403	02/03/2014	Cert of cord wood fired hydronic heating appliances with partial thermal storage
29	61 FR 18262	04/25/1996	Multiple metals
	63 FR 06493	02/9/1998	Amends promulgation dates
	79 FR 11228	02/27/2014	Allows sample analysis by CVAFS as alt. to AA analysis
	81 FR 59800	08/30/2016	Various revisions and allowances
30A	72 FR 51494	09/07/2007	Instrumental method for vapor phase mercury
	72 FR 55278	09/28/2007	Corrections
	81 FR 59800	08/30/2016	Changes section heading

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30B		72 FR 51494	09/7/2007	Sorbent trap method for vapor phase mercury
		72 FR 55278	09/28/2007	Corrections.
		79 FR 11228	02/27/2014	Various revisions; allowance of NIST-traceable barometer
		81 FR 59800	08/30/2016	Changes section heading & reference; re-inserts text
Part 60, Appendix B				
PS 1-5		55 FR 47471	11/14/1990	Technical amendments
PS-2-9	P	62 FR 45639	08/27/1997	Reformat and revise performance specs
		65 FR 61744	10/17/2000	Reformat and revise performance specs
PS-1		48 FR 13322	03/30/1983	Opacity
	P	59 FR 60585	11/25/1994	Revisions
		65 FR 48914	08/10/2000	Revisions, final rule
		81 FR 59800	08/30/2016	Removes limitation regarding location of COMS
		83 FR 56713	11/14/2018	Updates ASTM reference from D6216-98 to D6216-12
PS-2		48 FR 23608	05/25/1983	SO ₂ and NO _x
		71 FR 55119	09/21/2006	Add RATA criteria for low SO ₂ standards
		81 FR 59800	08/30/2016	Various revisions.
		83 FR 56713	11/14/2018	Replaces text with table of relative accuracy perf. specs.
PS-3		48 FR 23608	05/25/1983	CO ₂ and O ₂
		79 FR 11228	02/27/2014	Re-inserts erroneously omitted statement
		81 FR 59800	08/30/2016	Adds clarification re: how to calculate relative accuracy
		83 FR 56713	11/14/2018	Deletes unnecessary text; added text re: calculating RA
PS-4		50 FR 31700	08/05/1985	CO
PS-4A		56 FR 5526	02/11/1991	CO for MWC
		81 FR 59800	08/30/2016	Various revisions
PS-4B	P	61 FR 17495	04/19/1996	CO and O ₂ for HWI (BIF rules)
		64 FR 53032	09/30/1999	CO and O ₂ for HWI (BIF rules)
		79 FR 11228	02/27/2014	Adds clarification re: equation 1
PS-5		48 FR 32984	07/20/1983	TRS

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PS-6		53 FR 07514	03/09/1988	Velocity and mass emission rate
PS-7		55 FR 40171	10/02/1990	H ₂ S
		79 FR 11288	02/27/2014	Allows Methods 15 and 16 as reference methods
PS-8		59 FR 64580	12/15/1994	VOC CEMS
PS-8A	P	61 FR 17495	04/19/1996	VOC CEMS for HWC MACT
		64 FR 53033	09/30/1999	VOC CEMS for HWC MACT
PS-9		59 FR 64580	12/15/1994	GC CEMS
PS-10	P	61 FR 17495	04/19/1996	Metals CEMS (HWC MACT)
PS-11		69 FR 1786	01/12/2004	PM CEMS
		74 FR 12575	03/25/2009	Corrections/Clarifications
		79 FR 11228	02/27/2014	Corrects errors in equations 11-1 and 11-2
		81 FR 59800	08/30/2016	Rev. eqns. 11-1/11-2; resp. range in lieu of upscale value
		83 FR 56713	11/14/2018	Deletes erroneous word, "average"
PS-11A	P	61 FR 17495	04/19/1996	PM CEMS (HWC MACT)
PS-12	P	61 FR 17495	04/19/1996	Hg CEMS (HWC MACT)
PS-12A		70 FR 28606	05/18/2005	Hg CEMS (Coal-fired Boilers) - vacated
	P	74 FR 21136	05/06/2009	Hg CEMS
PS-12A		75 FR 54970	09/09/2010	Hg CEMS
PS 12B	P	74 FR 21136	05/06/2009	Sorbent trap Hg monitoring
		75 FR 54970	09/09/2010	Sorbent trap Hg monitoring
		79 FR 11228	02/27/2014	Allows a single good trap if one is lost, broken, damaged
PS-13	P	61 FR 17495	04/19/1996	HCl CEMS (HWC MACT)
PS-14	P	61 FR 17495	04/19/1996	Cl CEMS (HWC MACT)
PS-15	P	62 FR 45372	08/27/1997	FTIR CEMS
		65 FR 61744	10/17/2000	FTIR CEMS
		79 FR 11228	02/27/2014	Cites PS-2 for relative accuracy
		81 FR 59800	08/30/2016	Deletes language re: obtaining an audit sample
		83 FR 56713	11/14/2018	Adds section 13.0 as "Method Performance (Reserved)"
PS-16	P	70 FR 45608	08/08/2005	Predictive Emissions Monitoring Systems (PEMS)
		74 FR 12575	03/25/2009	PEMS
PS-17	P	73 FR 59956	10/9/2008	Parameter monitoring

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PS-18	P	79 FR 27690	05/14/2014	Proposed Performance Spec for HCI CEMS
		80 FR 38628	07/20/2015	Finalized Performance Spec for HCI CEMS
	P	81 FR 31577	05/19/2016	Proposed corrections and clarifications
		83 FR 56713	11/14/2018	Clarifies duration of drift check; corrects error
<u>Part 60, Appendix F</u>				
Proc 1		52 FR 21003	06/04/1987	Quality assurance for CEMS
		56 FR 5527	02/11/1991	Revision
		74 FR 12575	03/25/2009	Corrections/Clarifications
		79 FR 11228	02/27/2014	Cites PS for RAA calculations in lieu of equation 1-1
		83 FR 56713	11/14/2018	Revises language re: audit gases
Proc 2		69 FR 1768	01/12/2004	QA for PM CEMS
		74 FR 12575	03/25/2009	Corrections/Clarifications.
		79 FR 11228	02/27/2014	Revises equations 2-2, 2-3, and 2-4.
		81 FR 59800	08/30/2016	Revises equations 2-2, 2-3, and 2-4.
		82 FR 37822	08/14/2017	Requirements for CEMS PM data that meet PS-11 req.
Proc 3	P	68 FR 24692	05/08/2003	QA for COMS
	P	77 FR 8160	02/14/2012	QA for COMS
		79 FR 28439	05/16/2014	QA for COMS
Proc 4	P	73 FR 59956	10/09/2008	QA for parameter monitoring
Proc 5	P	74 FR 21136	05/06/2009	QA for Hg CEMS
		75 FR 54970	09/09/2010	QA for Hg CEMS
		79 FR 11228	02/27/2014	Corrects section number
Proc 6	P	79 FR 27690	05/14/2014	Proposed QA for HCI CEMS
		80 FR 38628	07/20/2015	Finalized QA for HCI CEMS
	P	81 FR 31577	05/19/2016	Proposed corrections and clarifications
		81 FR 52348	08/08/2016	Withdrew a portion of the revisions in 81 FR 31577
		82 FR 44106	09/21/2017	Finalized minor technical amendments
<u>Part 60, Appendix J</u>				
App-J		55 FR 33925	8/20/1990	Wood stove thermal efficiency

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<u>Alternative Procedures and Miscellaneous</u>				
		48 FR 44700	09/29/1983	S-Factor method for sulfuric acid plants
		48 FR 48669	10/20/1983	Corrections to S-Factor publication
		49 FR 30672	07/31/1984	Add fuel analysis procedures for gas turbine
		51 FR 21762	06/16/1986	Alternative PST for low level concentrations
		54 FR 46234	11/02/1989	Misc. revisions to Appendix A, 40 CFR Part 60
		55 FR 40171	10/02/1990	Monitoring revisions to Subpart J (Refineries)
<u>Part 60</u>				
		54 FR 06660	02/14/1989	Test methods & procedures revision
		54 FR 21344	05/17/1989	Correction notice
		54 FR 27015	06/27/1989	Correction notice
<u>Part 61, Appendix B</u>				
101-111	P	62 FR 45639	08/27/1997	Reformat, revise, amend methods
		64 FR 61744	10/17/2002	Reformat, revise, amend methods
101		47 FR 24703	06/08/1982	Hg in air streams
		49 FR 35768	09/12/1984	Corrections to M101 and M101A
101A		47 FR 24703	06/08/1982	Hg in sewage sludge incinerators
		61 FR 18262	04/25/1996	Revisions - Consistency with Method 29
102		47 FR 24703	06/08/1982	Hg in H ₂ streams
		79 FR 11228	02/27/2014	Allows mercury-free thermometers
103		48 FR 55266	12/09/1983	Revised Be screening method
104		48 FR 55268	12/09/1983	Revised beryllium method
		79 FR 11228	02/27/2014	Allows ICP-AES and CVAFS as alts. to AA analysis
105		40 FR 48299	10/14/1975	Hg in sewage sludge
		49 FR 35768	09/12/1984	Revised Hg in sewage sludge

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Method		Reference	Date	Description
106		47 FR 39168	09/07/1982	Vinyl chloride (VC)
107		47 FR 39168	09/07/1982	VC in process streams
		52 FR 20397	06/01/1987	Alternative calibration procedure
		81 FR 59800	08/30/2016	Deletes term "Geon" in section 11.7.3 heading
107A		47 FR 39485	09/08/1982	VC in process streams
108		51 FR 28035	08/04/1986	Inorganic arsenic
		79 FR 11228	02/27/2014	Allows ICP-AES and CVAFS as alts. to AA analysis
108A		51 FR 28035	08/4/1986	Arsenic in ore samples
		79 FR 11228	02/27/2014	Allows ICP-AES and CVAFS as alts. to AA analysis
108B		51 FR 22026	05/31/1990	Arsenic in ore alternative
		55 FR 32913	08/13/1990	Correction notice
108C		55 FR 22026	05/31/1990	Arsenic in ore alternative
		55 FR 32913	08/13/1990	Correction notice
109	P	52 FR 13586	04/23/1987	VE from coke oven batteries (used to develop M303)
111		50 FR 05197	02/06/1985	Polonium-210
114		54 FR 51695	12/15/1989	Monitoring of radionuclides
115		54 FR 51702	12/15/1989	Radon-222
Part 61				
		53 FR 36972	09/23/1988	Corrections
Part 63 Appendix A				
303-306	P	62 FR 45639	08/27/1997	Reformat and revise methods
		65 FR 61744	10/17/2002	Reformat and revise methods
301		57 FR 61970	12/29/1992	Field data validation protocol
	P	69 FR 76642	12/22/2004	Revisions
		76 FR 28664	05/18/2011	Revisions
302				(Reserved)
303		58 FR 57898	10/27/1993	Coke Oven Door Emissions
		81 FR 83701	11/22/2016	Clarifies certification training requirements
		83 FR 56713	11/14/2018	Corrects equation 303-3
304A		62 FR 2793	01/17/1997	Biodegradation rate (vented)

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304B		62 FR 2793	01/17/1997	Biodegradation rate (enclosed)
305		59 FR 19590	04/22/1994	Compound specific liquid waste
306	P	58 FR 65768	12/16/1993	Proposed total chromium test method
		60 FR 4948	01/25/1995	Chromium from electroplaters/anodizers
		79 FR 11228	02/27/2014	Clarifies ICP language; allows mercury-free thermometers
306A	P	58 FR 65768	12/16/1993	Proposed total chromium test method (Simplified method)
		60 FR 4948	01/25/1995	Simplified chromium sampling from electroplaters/anodizers
		79 FR 11228	02/27/2014	Clarifies conditions for required sample filtering
306B	P	58 FR 65768	12/16/1993	Proposed surface tension of chromium baths test method
		60 FR 4948	01/25/1995	Surface tension of chromium suppressors
307		59 FR 61801	12/2/1994	Solvent Degreaser VOC
308	P	58 FR 66079	12/17/1993	Methanol
		79 FR 11228	02/27/2014	Alt. for calibrating temperature sensor; Hg-free thermometer.
		83 FR 56713	11/14/2018	numerous corrections and additions
		63 FR 18504	04/15/1998	Methanol (Pulp and Paper MACT)
309		59 FR 29216	06/04/1994	Aerospace solvent recovery material balance
310A		62 FR 12546	03/17/1997	Residual hexane in EPDM rubber
310B		62 FR 12546	03/17/1997	Residual hexane in EPDM rubber
310C		62 FR 12546	03/17/1997	Residual hexane in EPDM rubber
311		60 FR 62930	12/07/1995	VOC HAPS in furniture coatings
312A		62 FR 12546	03/17/1997	Residual styrene in SBR rubber
312B		62 FR 12546	03/17/1997	Residual styrene in SBR rubber
312C		62 FR 12546	03/17/1997	Residual styrene in SBR rubber
313A		62 FR 12546	03/17/1997	Residual styrene in PBR rubber
313B		62 FR 12546	03/17/1997	Residual styrene in PBR rubber
314		Tentative		Halogenated compounds in solvents
315		62 FR 52418	10/7/1997	MeCl Extractable organic matter
		79 FR 11228	02/27/2014	Alt. for calibrating temperature sensor; Hg-free thermometer.

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316	P	62 FR 15257	03/31/1997	Proposed Formaldehyde - manual method in Wool Fiberglass manufacturing NESHAP
		64 FR 31695	06/14/1999	Finalized Formaldehyde - manual method in Wool Fiberglass manufacturing NESHAP
		79 FR 11228	02/27/2014	Alt. for calibrating temperature sensor; Hg-free thermometer.
317	Tentative			Phenol - manual method
318	P	62 FR 52266	03/31/1997	Proposed Formaldehyde, phenol, methanol with FTIR in Wool Fiberglass Manufacturing NESHAP
		64 FR 31695	06/14/1999	Finalized Formaldehyde, phenol, methanol with FTIR in Wool Fiberglass Manufacturing NESHAP
319	P	61 FR 55862	10/29/1996	Filter efficiency, paint over-spray
		63 FR 15006	03/27/1998	Filter efficiency, paint over-spray
320	P	63 FR 14182	03/24/1998	Extractive FTIR
		64 FR 31898	06/14/1999	Extractive FTIR
		81 FR 59800	08/30/2016	Corrects Method 301 reference
		83 FR 56713	11/14/2018	Corrects equation 2 and definition of spike
321	P	63 FR 14182	03/24/1998	FTIR for HCl from Portland Cement Kilns
		64 FR 31898	06/14/1999	FTIR for HCl from Portland Cement kilns
		79 FR 11228	02/27/2014	Clarifies term for dilution factor in calculations
322	P	63 FR 14182	03/24/1998	GFC/IR for HCl from Portland Cement kilns
323	P	68 FR 1925	01/14/2003	Formaldehyde from natural gas-fired sources
		75 FR 51570	08/20/2010	Formaldehyde from natural gas-fired sources
		83 FR 56713	11/14/2018	Corrects equation 323-8
324	P	69 FR 4652	01/30/2004	Vapor phase Hg by sorbent trap
325A	P	79 FR 36880	06/30/2014	Proposed method
		80 FR 75178	12/01/2015	Finalized method
		83 FR 56713	11/14/2018	Various corrections, revisions, and additions
325B	P	79 FR 36880	06/30/2014	Proposed method
		80 FR 75178	12/01/2015	Finalized method
		83 FR 56713	11/14/2018	Various corrections, revisions, and additions
326		84 FR 7707	03/04/2019	Isocyanates

P = Proposal

Tentative = Under evaluation