Pt. 63, Subpt. UUUUU, Table 4

If your EGU is	You must meet the following	
A coal-fired, liquid oil-fired, or solid oil-derived fuel-fired EGU during shutdown.	You must operate all CMS during shutdown. Shutdown means the cessation of operation of a boiler for any purpose. Shutdown begins either when none of the steam from the boiler is used to generate electricity for sale over the grid or for any other purpose (including on-site use) or at the point of no fuel being fired in the boiler. Shutdown ends when there is both no electricity being generated and no fuel being fired in the boiler. During shutdown, you must operate all applicable control technologies while firing coal, residual oil, or solid oil-derived fuel. You must comply with all applicable emissions limits at all times except for periods that meet the definitions of startup and shutdown in this subpart. You must keep records during periods of startup. You must provide reports concerning activities and periods of startup, as specified in §63.10011(g) and §63.10021(h) and (i).	

Table 4 to Subpart UUUUU of Part 63—Operating Limits for EGUs

As stated in §63.9991, you must comply with the applicable operating limits:

If you demonstrate compliance using	You must meet these operating limits
1. PM CPMS	Maintain the 30-boiler operating day rolling average PM CPMS output at or below the highest 1-hour average measured during the most recent performance test demonstrating compliance with the filterable PM, total non-mercury HAP metals (total HAP metals, for liquid oil-fired units), or individual non-mercury HAP metals (individual HAP metals including Hg, for liquid oil-fired units) emissions limitation(s).

TABLE 5 TO SUBPART UUUUU OF PART 63—PERFORMANCE TESTING REQUIREMENTS

As stated in §63.10007, you must comply with the following requirements for performance testing for existing, new or reconstructed affected sources: 1

To conduct a per- formance test for the following pollutant	Using	You must perform the following activities, as applicable to your input- or output-based emission limit	Using ²
Filterable Particulate matter (PM).	Emissions Testing	Select sampling ports location and the number of traverse points.	Method 1 at Appendix A-1 to part 60 of this chapter.
		b. Determine velocity and volumetric flow-rate of the stack gas.	Method 2, 2A, 2C, 2F, 2G or 2H at Appendix A-1 or A-2 to part 60 of this chapter.
		c. Determine oxygen and carbon dioxide concentrations of the stack gas.	Method 3A or 3B at Appendix A-2 to part 60 of this chapter, or ANSI/ ASME PTC 19.10-1981.3
		d. Measure the moisture content of the stack gas.	Method 4 at Appendix A-3 to part 60 of this chapter.
		e. Measure the filterable PM concentration.	Method 5 at Appendix A-3 to part 60 of this chapter.
			For positive pressure fabric filters, Method 5D at Appendix A-3 to part 60 of this chapter for filterable PM emissions.
			Note that the Method 5 front half temperature shall be 160 $^{\circ}$ ± 14 $^{\circ}$ C (320 $^{\circ}$ ± 25 $^{\circ}$ F).
		f. Convert emissions concentration to lb/ MMBtu or lb/MWh emissions rates.	Method 19 F-factor methodology at Appendix A-7 to part 60 of this chapter, or calculate using mass emissions rate and electrical output data (see §63.10007(e)).
	OR	OR	
	PM CEMS	Install, certify, operate, and maintain the PM CEMS.	Performance Specification 11 at Appendix B to part 60 of this chapter and Procedure 2 at Appendix F to Part 60 of this chapter.
		b. Install, certify, operate, and maintain the diluent gas, flow rate, and/or moisture monitoring systems.	Part 75 of this chapter and §§ 63.10010(a), (b), (c), and (d).

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To conduct			
To conduct a per- formance test for the following pollutant	Using	You must perform the following activities, as applicable to your input- or output-based emission limit	Using ²
		c. Convert hourly emissions concentra- tions to 30 boiler operating day rolling average lb/MMBtu or lb/MWh emis- sions rates.	Method 19 F-factor methodology at Appendix A–7 to part 60 of this chapter, or calculate using mass emissions rate and electrical output data (see § 63.10007(e)).
2. Total or individual non-Hg HAP met-	Emissions Testing	Select sampling ports location and the number of traverse points.	Method 1 at Appendix A-1 to part 60 of this chapter.
als.		b. Determine velocity and volumetric flow-rate of the stack gas.	Method 2, 2A, 2C, 2F, 2G or 2H at Appendix A-1 or A-2 to part 60 of this chapter.
		c. Determine oxygen and carbon dioxide concentrations of the stack gas.	Method 3A or 3B at Appendix A-2 to part 60 of this chapter, or ANSI/ ASME PTC 19.10-1981.3
		d. Measure the moisture content of the stack gas.	Method 4 at Appendix A–3 to part 60 of this chapter.
		Measure the HAP metals emissions concentrations and determine each individual HAP metals emissions concentration, as well as the total filterable HAP metals emissions concentration and total HAP metals emissions concentration.	Method 29 at Appendix A-8 to part 60 of this chapter. For liquid oil-fired units, Hg is included in HAP metals and you may use Method 29, Method 30B at Appendix A-8 to part 60 of this chapter; for Method 29, you must report the front half and back half results separately.
		 Convert emissions concentrations (in- dividual HAP metals, total filterable HAP metals, and total HAP metals) to lb/MMBtu or lb/MWh emissions rates. 	Method 19 F-factor methodology at Appendix A-7 to part 60 of this chapter, or calculate using mass emissions rate and electrical output data (see § 63.10007(e)).
3. Hydrogen chloride (HCl) and hydrogen fluoride (HE)	Emissions Testing	Select sampling ports location and the number of traverse points.	Method 1 at Appendix A-1 to part 60 of this chapter.
gen fluoride (HF).		b. Determine velocity and volumetric flow-rate of the stack gas.	Method 2, 2A, 2C, 2F, 2G or 2H at Appendix A-1 or A-2 to part 60 of this
		c. Determine oxygen and carbon dioxide concentrations of the stack gas.	chapter. Method 3A or 3B at Appendix A–2 to part 60 of this chapter, or ANSI/
		d. Measure the moisture content of the stack gas.	ASME PTC 19.10–1981. ³ Method 4 at Appendix A–3 to part 60 of this chapter.
		e. Measure the HCl and HF emissions concentrations.	Method 26 or Method 26A at Appendix A-8 to part 60 of this chapter or Method 320 at Appendix A to part 63 of this chapter or ASTM 6348-03 ³ with (1) additional quality assurance measures in footnote 4 and (2) spiking levels nominally no greater than two times the level corresponding to the applicable emission limit. Method 26A must be used if there are entrained water droplets in the exhaust stream.
		Convert emissions concentration to lb/ MMBtu or lb/MWh emissions rates.	Method 19 F-factor methodology at Appendix A-7 to part 60 of this chapter, or calculate using mass emissions rate and electrical output data (see § 63.10007(e)).
	OR HCI and/or HF	OR a. Install, certify, operate, and maintain	Appendix B of this subpart.
	CEMS.	the HCl or HF CEMS. b. Install, certify, operate, and maintain the diluent gas, flow rate, and/or moisture monitoring systems.	Part 75 of this chapter and §§ 63.10010(a), (b), (c), and (d).
		Convert hourly emissions concentra- tions to 30 boiler operating day rolling average lb/MMBtu or lb/MWh emis- sions rates.	Method 19 F-factor methodology at Appendix A-7 to part 60 of this chapter, or calculate using mass emissions rate and electrical output data (see § 63.10007(e)).

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To conduct a per- formance test for the following pollutant	Using	You must perform the following activities, as applicable to your input- or output-based emission limit	Using ²
4. Mercury (Hg)	Emissions Testing	Select sampling ports location and the number of traverse points.	Method 1 at Appendix A-1 to part 60 of this chapter or Method 30B at Appen- dix A-8 for Method 30B point selec- tion.
		b. Determine velocity and volumetric flow-rate of the stack gas.	Method 2, 2A, 2C, 2F, 2G or 2H at Appendix A-1 or A-2 to part 60 of this chapter.
		c. Determine oxygen and carbon dioxide concentrations of the stack gas.	Method 3A or 3B at Appendix A-1 to part 60 of this chapter, or ANSI/ ASME PTC 19.10-1981.3
		d. Measure the moisture content of the stack gas.	Method 4 at Appendix A-3 to part 60 of this chapter.
		e. Measure the Hg emission concentration.	Method 30B at Appendix A–8 to part 60 of this chapter, ASTM D6784 ³ , or Method 29 at Appendix A–8 to part 60 of this chapter; for Method 29, you must report the front half and back half results separately.
		f. Convert emissions concentration to lb/ TBtu or lb/GWh emission rates.	Method 19 F-factor methodology at Appendix A-7 to part 60 of this chapter, or calculate using mass emissions rate and electrical output data (see § 63.10007(e)).
	OR	OR Hg CEMS	Sections 3.2.1 and 5.1 of Appendix A of
		a. Install, certify, operate, and maintain the CEMS.	this subpart.
		 b. Install, certify, operate, and maintain the diluent gas, flow rate, and/or moisture monitoring systems. 	Part 75 of this chapter and §§ 63.10010(a), (b), (c), and (d).
		Convert hourly emissions concentrations to 30 boiler operating day rolling average lb/TBtu or lb/GWh emissions rates.	Section 6 of Appendix A to this subpart.
	OR Sorbent trap moni-	OR a. Install, certify, operate, and maintain	Sections 3.2.2 and 5.2 of Appendix A to
	toring system.	the sorbent trap monitoring system.	this subpart.
		 b. Install, operate, and maintain the dil- uent gas, flow rate, and/or moisture monitoring systems. 	Part 75 of this chapter and §§ 63.10010(a), (b), (c), and (d).
		 c. Convert emissions concentrations to 30 boiler operating day rolling average lb/TBtu or lb/GWh emissions rates. 	Section 6 of Appendix A to this subpart.
	OR	OR	
	LEE testing	Select sampling ports location and the number of traverse points.	Single point located at the 10% centroidal area of the duct at a port location per Method 1 at Appendix A–1 to part 60 of this chapter or Method 30B at Appendix A–8 for Method 30B point selection.
		b. Determine velocity and volumetric flow-rate of the stack gas.	Method 2, 2A, 2C, 2F, 2G, or 2H at Appendix A-1 or A-2 to part 60 of this chapter or flow monitoring system certified per Appendix A of this subpart.
		c. Determine oxygen and carbon dioxide concentrations of the stack gas.	Method 3A or 3B at Appendix A-1 to part 60 of this chapter, or ANSI/ ASME PTC 19.10-1981,3 or diluent gas monitoring systems certified according to Part 75 of this chapter.
		d. Measure the moisture content of the stack gas.	Method 4 at Appendix A-3 to part 60 of this chapter, or moisture monitoring systems certified according to part 75 of this chapter.

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To conduct a per- formance test for the following pollutant	Using	You must perform the following activities, as applicable to your input- or output-based emission limit	Using ²
		e. Measure the Hg emission concentration.	Method 30B at Appendix A–8 to part 60 of this chapter; perform a 30 operating day test, with a maximum of 10 operating days per run (i.e., per pair of sorbent traps) or sorbent trap monitoring system or Hg CEMS certified per Appendix A of this subpart.
		f. Convert emissions concentrations from the LEE test to lb/TBtu or lb/ GWh emissions rates.	Method 19 F-factor methodology at Appendix A-7 to part 60 of this chapter, or calculate using mass emissions rate and electrical output data (see § 63.10007(e)).
		g. Convert average lb/TBtu or lb/GWh Hg emission rate to lb/year, if you are attempting to meet the 22.0 lb/year threshold.	Potential maximum annual heat input in TBtu or potential maximum electricity generated in GWh.
5. Sulfur dioxide (SO ₂).	SO ₂ CEMS	a. Install, certify, operate, and maintain the CEMS. b. Install, operate, and maintain the diluent gas, flow rate, and/or moisture monitoring systems.	Part 75 of this chapter and §§ 63.10010(a) and (f). Part 75 of this chapter and §§ 63.10010(a), (b), (c), and (d).
		Convert hourly emissions concentra- tions to 30 boiler operating day rolling average lb/MMBtu or lb/MWh emis- sions rates.	Method 19 F-factor methodology at Appendix A-7 to part 60 of this chapter, or calculate using mass emissions rate and electrical output data (see § 63.10007(e)).

¹ Regarding emissions data collected during periods of startup or shutdown, see §§ 63.10020(b) and (c) and § 63.10021(h).
² See Tables 1 and 2 to this subpart for required sample volumes and/or sampling run times.
³ Incorporated by reference, see § 63.14.
⁴ When using ASTM D6348–03, the following conditions must be met: (1) The test plan preparation and implementation in the Annexes to ASTM D6348–03, Sections A1 through A8 are mandatory; (2) For ASTM D6348–03 Annex A5 (Analyte Spiking Technique), the percent (%) R must be determined for each target analyte (see Equation A5.5); (3) For the ASTM D6348–03 test data to be acceptable for a target analyte, %R must be 70% ≥ R ≤ 130%; and (4) The %R value for each compound must be reported in the test report and all field measurements corrected with the calculated %R value for that compound using the following equation:

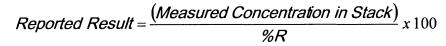


TABLE 6 TO SUBPART UUUUU OF PART 63—ESTABLISHING PM CPMS OPERATING LIMITS

As stated in §63.10007, you must comply with the following requirements for establishing operating limits: