

the procedures specified in the affected source's startup, shutdown, and malfunction plan, the owner or operator shall submit an immediate startup, shutdown, and malfunction report as specified in § 63.10(d)(5)(ii) of subpart A of this part.

(j) *Reports of equipment leaks.* The owner or operator of an affected source subject to the standards in § 63.1363, shall implement the reporting requirements specified in § 63.1363(h). Copies of all reports shall be retained as records for a period of 5 years, in accordance with the requirements of § 63.10(b)(1) of subpart A of this part.

(k) *Reports of emissions averaging.* The owner or operator of an affected source that chooses to comply with the requirements of § 63.1362(h) shall submit all information as specified in § 63.1367(d) for all emission points included in the emissions average. The owner or operator shall also submit to the Administrator all information specified in paragraph (g) of this section for each emission point included in the emissions average.

(l) The reports shall also include the information listed in paragraphs (k)(1)(i) through (iv) of this section:

(i) Any changes to the processes, storage tanks, or waste management unit included in the average.

(ii) The calculation of the debits and credits for the reporting period.

(iii) Changes to the Emissions Averaging Plan which affect the calculation methodology of uncontrolled or controlled emissions or the hazard or risk equivalency determination.

(iv) Any changes to the parameters monitored according to § 63.1366(g).

(2) Every second semiannual or fourth quarterly report, as appropriate, shall include the results according to § 63.1367(d)(4) to demonstrate the emissions averaging provisions of § 63.1362(h), § 63.1365(h), § 63.1366(g), and § 63.1367(d) are satisfied.

(l) *Reports of heat exchange systems.* The owner or operator of an affected source subject to the requirements for heat exchange systems in § 63.1362(f) shall submit information about any delay of repairs as specified in § 63.104(f)(2) of subpart F of this part,

except that when the phrase "periodic reports required by § 63.152(c) of subpart G of this part" is referred to in § 63.104(f)(2) of subpart F of this part, the periodic reports required in paragraph (g) of this section shall apply for the purposes of this subpart.

(m) *Notification of performance test and test Plan.* The owner or operator of an affected source shall notify the Administrator of the planned date of a performance test at least 60 days before the test in accordance with § 63.7(b) of subpart A of this part. The owner or operator also must submit the test Plan required by § 63.7(c) of subpart A of this part and the emission profile required by § 63.1365(b)(10)(ii) with the notification of the performance test.

(n) *Request for extension of compliance.* The owner or operator may submit to the Administrator a request for an extension of compliance in accordance with § 63.1364(a)(2).

(o) The owner or operator who submits an operating permit application before the date the Emissions Averaging Plan is due shall submit the information specified in paragraphs (o)(1) through (3) of this section with the operating permit application instead of the Emissions Averaging Plan.

(1) The information specified in § 63.1367(d) for emission points included in the emissions average;

(2) The information specified in § 63.9(h) of subpart A of this part, as applicable; and

(3) The information specified in paragraph (e) of this section, as applicable.

#### § 63.1369 Delegation of authority.

(a) In delegating implementation and enforcement authority to a State under section 112(d) of the CAA, the authorities contained in paragraph (b) of this section shall be retained by the Administrator and not transferred to a State.

(b) The authority conferred in § 63.177 of subpart H of this part, the authority to approve applications for determination of equivalent means of emission limitation, and the authority to approve alternative test methods shall not be delegated to any State.

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Pt. 63, Subpt. MMM, Table 1

TABLE 1 TO SUBPART MMM OF PART 63—GENERAL PROVISIONS APPLICABILITY TO SUBPART MMM

Reference to subpart A	Applies to subpart MMM	Explanation
§ 63.1(a)(1) .....	Yes .....	Additional terms are defined in § 63.1361.
§ 63.1(a)(2)–(3) .....	Yes .....	
§ 63.1(a)(4) .....	Yes .....	Subpart MMM (this table) specifies applicability of each paragraph in subpart A to subpart MMM.
§ 63.1(a)(5) .....	N/A .....	Reserved.
§ 63.1(a)(6)–(7) .....	Yes .....	
§ 63.1(a)(8) .....	No .....	Discusses State programs.
§ 63.1(a)(9) .....	N/A .....	Reserved.
§ 63.1(a)(10)–(14) .....	Yes .....	
§ 63.1(b)(1) .....	No .....	§ 63.1360 specifies applicability.
§ 63.1(b)(2)–(3) .....	Yes .....	
§ 63.1(c)(1) .....	Yes .....	Subpart MMM (this table) specifies the applicability of each paragraph in subpart A to sources subject to subpart MMM.
§ 63.1(c)(2) .....	No .....	Area sources are not subject to subpart MMM.
§ 63.1(c)(3) .....	N/A .....	Reserved.
§ 63.1(c)(4)–(5) .....	Yes .....	
§ 63.1(d) .....	N/A .....	Reserved.
§ 63.1(e) .....	Yes .....	
§ 63.2 .....	Yes .....	Additional terms are defined in § 63.1361; when overlap between subparts A and MMM occurs, subpart MMM takes precedence.
§ 63.3 .....	Yes .....	Other units used in subpart MMM are defined in that subpart.
§ 63.4(a)(1)–(3) .....	Yes .....	
§ 63.4(a)(4) .....	N/A .....	Reserved.
§ 63.4(a)(5)–(c) .....	Yes .....	
§ 63.5(a) .....	Yes .....	Except the term “affected source” shall apply instead of the terms “source” and “stationary source” in § 63.5(a)(1) of subpart A.
§ 63.5(b)(1) .....	Yes .....	
§ 63.5(b)(2) .....	N/A .....	Reserved.
§ 63.5(b)(3)–(5) .....	Yes .....	
§ 63.5(b)(6) .....	No .....	§ 63.1360(g) specifies requirements for determining applicability of added PAI equipment.
§ 63.5(c) .....	N/A .....	Reserved.
§ 63.5(d)–(e) .....	Yes .....	
§ 63.5(f)(1) .....	Yes .....	Except “affected source” shall apply instead of “source” in § 63.5(f)(1) of subpart A.
§ 63.5(f)(2) .....	Yes .....	
§ 63.6(a) .....	Yes .....	
§ 63.6(b)(1)–(2) .....	No .....	§ 63.1364 specifies compliance dates.
§ 63.6(b)(3)–(4) .....	Yes .....	
§ 63.6(b)(5) .....	Yes .....	
§ 63.6(b)(6) .....	N/A .....	Reserved.
§ 63.6(b)(7) .....	Yes .....	
§ 63.6(c)(1)–(2) .....	Yes .....	Except “affected source” shall apply instead of “source” in § 63.6(c)(1)–(2) of subpart A.
§ 63.6(c)(3)–(4) .....	N/A .....	Reserved.
§ 63.6(c)(5) .....	Yes .....	
§ 63.6(d) .....	N/A .....	Reserved.
§ 63.6(e) .....	Yes .....	Except § 63.1360 specifies that the standards in subpart MMM apply during startup and shutdown for batch processes; therefore, these activities would not be covered in the startup, shutdown, and malfunction Plan.
§ 63.6(f) .....	Yes .....	Except § 63.1360 specifies that the standards in subpart MMM also apply during startup and shutdown for batch processes.
§ 63.6(g) .....	Yes .....	An alternative standard has been proposed; however, affected sources will have the opportunity to demonstrate other alternatives to the Administrator.
§ 63.6(h) .....	No .....	Subpart MMM does not contain any opacity or visible emissions standards.
§ 63.6(i)(1) .....	Yes .....	
§ 63.6(i)(2) .....	Yes .....	Except “affected source” shall apply instead of “source” in § 63.6(i)(2)(i) and (ii) of subpart A.
§ 63.6(i)(3)–(14) .....	Yes .....	
§ 63.6(i)(15) .....	N/A .....	Reserved.
§ 63.6(i)(16) .....	Yes .....	
§ 63.6(j) .....	Yes .....	
§ 63.7(a)(1) .....	Yes .....	
§ 63.7(a)(2)(i)–(vi) .....	Yes .....	§ 63.1368 specifies that test results must be submitted in the Notification of Compliance Status due 150 days after the compliance date.
§ 63.7(a)(2)(vii)–(viii) .....	N/A .....	Reserved.
§ 63.7(a)(2)(ix)–(c) .....	Yes .....	
§ 63.7(d) .....	Yes .....	Except “affected source” shall apply instead of “source” in § 63.7(d) of subpart A.
§ 63.7(e)(1) .....	Yes .....	§ 63.1365 contains test methods specific to PAI sources.
§ 63.7(e)(2) .....	Yes .....	

TABLE 1 TO SUBPART MMM OF PART 63—GENERAL PROVISIONS APPLICABILITY TO SUBPART MMM—Continued

Reference to subpart A	Applies to subpart MMM	Explanation
§ 63.7(e)(3)	Yes	Except § 63.1365 specifies less than 3 runs for certain tests.
§ 63.7(e)(4)	Yes.	
§ 63.7(f)	Yes	
§ 63.7(g)(1)	Yes	
§ 63.7(g)(2)	N/A	Except § 63.1368(a) specifies that the results of the performance test be submitted with the Notification of Compliance Status report Reserved.
§ 63.7(g)(3)	Yes	
§ 63.7(h)	Yes	
§ 63.8(a)(1)–(2)	Yes	
§ 63.8(a)(3)	N/A	Reserved.
§ 63.8(a)(4)	Yes	
§ 63.8(b)(1)	Yes	
§ 63.8(b)(2)	No	
§ 63.8(b)(3)–(c)(3)	Yes	§ 63.1366 specifies CMS requirements. Except the submittal date of the immediate startup, shutdown, and malfunction reports for CMS events shall be 2 days as in § 63.6(e)(3)(iv).
§ 63.8(c)(4)	No	
§ 63.8(c)(5)–(8)	No	§ 63.1366 specifies monitoring frequencies.
§ 63.8(d)–(f)(3)	Yes	
§ 63.8(f)(4)	Yes	Except § 63.1368(b) specifies that requests may also be included in the Precompliance report.
§ 63.8(f)(5)	Yes	
§ 63.8(f)(6)	No	Subpart MMM does not require CEM's. § 63.1366 specifies data reduction procedures.
§ 63.8(g)	No	
§ 63.9(a)–(d)	Yes	Subpart MMM does not contain opacity and visible emission standards.
§ 63.9(e)	No	
§ 63.9(f)	No	
§ 63.9(g)	No	
§ 63.9(h)(1)	Yes	
§ 63.9(h)(2)(i)	Yes	
§ 63.9(h)(2)(ii)	No	
§ 63.9(h)(3)	Yes	
§ 63.9(h)(4)	N/A	
§ 63.9(h)(5)–(6)	Yes	
§ 63.9(i)–(j)	Yes	Except § 63.9(j) does not apply for changes in information in the notification of compliance status report on equipment leaks as specified in § 63.1363(h)(2).
§ 63.10(a)–(b)(1)	Yes	
§ 63.10(b)(2)	No	§ 63.1367 specifies recordkeeping requirements.
§ 63.10(b)(3)	Yes	
§ 63.10(c)	Yes	Subpart MMM does not include opacity and visible emission standards.
§ 63.10(d)(1)	Yes	
§ 63.10(d)(2)	Yes	
§ 63.10(d)(3)	No	
§ 63.10(d)(4)	Yes	
§ 63.10(d)(5)	Yes	
§ 63.10(e)(1)–(2)(i)	Yes	
§ 63.10(e)(2)(ii)	No	
§ 63.10(e)(3)	Yes	
§ 63.10(e)(4)	No	
§ 63.10(f)	Yes	Subpart MMM does not include opacity monitoring requirements.
§ 63.11–§ 63.15	Yes.	

TABLE 2 TO SUBPART MMM OF PART 63—STANDARDS FOR NEW AND EXISTING PAI SOURCES

Emission source	Applicability	Requirement
Process vents	Existing: Processes having uncontrolled organic HAP emissions $\geq 0.15$ Mg/yr. Processes having uncontrolled HCl and chlorine emissions $\geq 6.8$ Mg/yr.	90% for organic HAP per process or to outlet concentration of $\leq 20$ ppmv TOC. 94% for HCl and chlorine per process or to outlet HCl and chlorine concentration of $\leq 20$ ppmv.

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Pt. 63, Subpt. MMM, Table 3

TABLE 2 TO SUBPART MMM OF PART 63—STANDARDS FOR NEW AND EXISTING PAI SOURCES—Continued

Emission source	Applicability	Requirement
	Individual process vents meeting flow and mass emissions criteria that have gaseous organic HAP emissions controlled to less than 90% on or after November 10, 1997. New: Processes having uncontrolled organic HAP emissions $\geq 0.15$ Mg/yr. Processes having uncontrolled HCl and chlorine emissions $\geq 6.8$ Mg/yr and $< 191$ Mg/yr.	98% gaseous organic HAP control per vent or $\leq 20$ ppmv TOC outlet limit.
	Processes having uncontrolled HCl and chlorine emissions $\geq 191$ Mg/yr.	98% for organic HAP per process or $\leq 20$ ppmv TOC. 94% for HCl and chlorine per process or to outlet concentration of $\leq 20$ ppmv HCl and chlorine.
Storage vessels .....	Existing: $\geq 75$ m <sup>3</sup> capacity and vapor pressure $\geq 3.45$ kPa. New: $\geq 38$ m <sup>3</sup> capacity and vapor pressure $\geq 16.5$ kPa.	99% for HCl and chlorine per process or to outlet concentration of $\leq 20$ ppmv HCl and chlorine. Install a floating roof, reduce HAP by 95% per vessel, or to outlet concentration of $\leq 20$ ppmv TOC. Same as for existing sources.
Wastewater <sup>a</sup> .....	$\geq 75$ m <sup>3</sup> capacity and vapor pressure $\geq 3.45$ kPa Existing: Process wastewater with $\geq 10,000$ ppmw Table 9 compounds at any flowrate or $\geq 1,000$ ppmw Table 9 compounds at $\geq 10$ L/min, and maintenance wastewater with HAP load $\geq 5.3$ Mg per discharge event. New: Same criteria as for existing sources .....	Same as for existing sources. Reduce concentration of total Table 9 compounds to $< 50$ ppmw (or other options).
Equipment leaks .....	Total HAP load in wastewater POD streams $\geq 2,100$ Mg/yr.. Subpart H .....	Reduce concentration of total Table 9 compounds to $< 50$ ppmw (or other options). 99% reduction of Table 9 compounds from all streams. Subpart H with minor changes, including monitoring frequencies consistent with the proposed CAR.
Product dryers and bag dumps.	Dryers used to dry PAI that is also a HAP, and bag dumps used to introduce feedstock that is a solid and a HAP.	Particulate matter concentration not to exceed 0.01 gr/dscf.
Heat exchange systems .....	Each heat exchange system used to cool process equipment in PAI manufacturing operations.	Monitoring and leak repair program as in HON.

<sup>a</sup> Table 9 is listed in the appendix to subpart G of 40 CFR part 63.

TABLE 3 TO SUBPART MMM OF PART 63—MONITORING REQUIREMENTS FOR CONTROL DEVICES<sup>a</sup>

Control device	Monitoring equipment required	Parameters to be monitored	Frequency
All control devices .....	1. Flow indicator installed at all bypass lines to the atmosphere and equipped with continuous recorder or. 2. Valves sealed closed with car-seal or lock-and-key configuration.	1. Presence of flow diverted from the control device to the atmosphere or. 2. Monthly inspections of sealed valves.	Hourly records of whether the flow indicator was operating and whether a diversion was detected at any time during each hour. Monthly.
Scrubber .....	Liquid flow rate or pressure drop mounting device. Also a pH monitor if the scrubber is used to control acid emissions..	1. Liquid flow rate into or out of the scrubber or the pressure drop across the scrubber.. 2. pH of effluent scrubber liquid.	1. Every 15 minutes. 2. Once a day.
Thermal incinerator .....	Temperature monitoring device installed in firebox or in ductwork immediately downstream of firebox <sup>b</sup> .	Firebox temperature .....	Every 15 minutes.
Catalytic incinerator .....	Temperature monitoring device installed in gas stream immediately before and after catalyst bed.	Temperature difference across catalyst bed.	Every 15 minutes.

TABLE 3 TO SUBPART MMM OF PART 63—MONITORING REQUIREMENTS FOR CONTROL DEVICES <sup>a</sup>—  
Continued

Control device	Monitoring equipment required	Parameters to be monitored	Frequency
Flare .....	Heat sensing device installed at the pilot light.	Presence of a flame at the pilot light.	Every 15 minutes.
Boiler or process heater <44 megawatts and vent stream is not mixed with the primary fuel.	Temperature monitoring device installed in firebox <sup>b</sup> .	Combustion temperature .....	Every 15 minutes.
Condenser .....	Temperature monitoring device installed at condenser exit.	Condenser exit (product side) temperature.	Every 15 minutes.
Carbon adsorber (nonregenerative).	None .....	Operating time since last replacement.	N/A.
Carbon adsorber (regenerative).	Stream flow monitoring device, and.	1. Total regeneration stream mass or volumetric flow during carbon bed regeneration cycle(s).	1. For each regeneration cycle, record the total regeneration stream mass or volumetric flow.
	Carbon bed temperature monitoring device.	2. Temperature of carbon bed after regeneration.	2. For each regeneration cycle, record the maximum carbon bed-temperature.
		3. Temperature of carbon bed within 15 minutes of completing any cooling cycle(s).	3. Within 15 minutes of completing any cooling cycle, record the carbon bed temperature.
		4. Operating time since end of last regeneration.	4. Operating time to be based on worst-case conditions.
		5. Check for bed poisoning ....	5. Yearly.

<sup>a</sup> As an alternative to the monitoring requirements specified in this table, the owner or operator may use a CEM meeting the requirements of Performance Specifications 8 or 9 of appendix B of part 60 to monitor TOC every 15 minutes.

<sup>b</sup> Monitor may be installed in the firebox or in the ductwork immediately downstream of the firebox before any substantial heat exchange is encountered.

TABLE 4 TO SUBPART MMM OF PART 63—CONTROL REQUIREMENTS FOR ITEMS OF EQUIPMENT THAT MEET THE CRITERIA OF § 63.1362(K)

Item of equipment	Control requirement <sup>a</sup>
Drain or drain hub .....	(a) Tightly fitting solid cover (TFSC); or (b) TFSC with a vent to either a process, or to a control device meeting the requirements of § 63.1256(h)(2); or (c) Water seal with submerged discharge or barrier to protect discharge from wind.
Manhole <sup>b</sup> .....	(a) TFSC; or (b) TFSC with a vent to either a process, or to a fuel gas system, or to a control device meeting the requirements of § 63.1256(h)(2); or (c) If the item is vented to the atmosphere, use a TFSC with a properly operating water seal at the entrance or exit to the item to restrict ventilation in the collection system. The vent pipe shall be at least 90 cm in length and not exceeding 10.2 cm in nominal inside diameter.
Lift station .....	(a) TFSC; or (b) TFSC with a vent to either a process, or to a control device meeting the requirements of § 63.1256(h)(2); or (c) If the lift station is vented to the atmosphere, use a TFSC with a properly operating water seal at the entrance or exit to the item to restrict ventilation in the collection system. The vent pipe shall be at least 90 cm in length and not exceeding 10.2 cm in nominal inside diameter. The lift station shall be level controlled to minimize changes in the liquid level.
Trench .....	(a) TFSC; or (b) TFSC with a vent to either a process, or to a control device meeting the requirements of § 63.1256(h)(2); or (c) If the item is vented to the atmosphere, use a TFSC with a properly operating water seal at the entrance or exit to the item to restrict ventilation in the collection system. The vent pipe shall be at least 90 cm in length and not exceeding 10.2 cm in nominal inside diameter.
Pipe .....	Each pipe shall have no visible gaps in joints, seals, or other emission interfaces.
Oil/Water separator .....	(a) Equip with a fixed roof and route vapors to a process, or equip with a closed-vent system that routes vapors to a control device meeting the requirements of § 63.1256(h)(2); or (b) Equip with a floating roof that meets the equipment specifications of § 60.693 (a)(1)(i), (a)(1)(ii), (a)(2), (a)(3), and (a)(4).

TABLE 4 TO SUBPART MMM OF PART 63—CONTROL REQUIREMENTS FOR ITEMS OF EQUIPMENT THAT MEET THE CRITERIA OF § 63.1362(K)—Continued

Item of equipment	Control requirement <sup>a</sup>
Tank .....	Maintain a fixed roof. <sup>c</sup> If the tank is sparged <sup>d</sup> or used for heating or treating by means of an exothermic reaction, a fixed roof and a system shall be maintained that routes the organic hazardous air pollutants vapors to other process equipment or a fuel gas system, or a closed-vent system that routes vapors to a control device that meets the requirements of 40 CFR § 63.119(e)(1) or (e)(2).

<sup>a</sup>Where a tightly fitting solid cover is required, it shall be maintained with no visible gaps or openings, except during periods of sampling, inspection, or maintenance.  
<sup>b</sup>Manhole includes sumps and other points of access to a conveyance system.  
<sup>c</sup>A fixed roof may have openings necessary for proper venting of the tank, such as pressure/vacuum vent, j-pipe vent.  
<sup>d</sup>The liquid in the tank is agitated by injecting compressed air or gas.

**Subpart NNN—National Emission Standards for Hazardous Air Pollutants for Wool Fiberglass Manufacturing**

SOURCE: 64 FR 31709, June 14, 1999, unless otherwise noted.

**§ 63.1380 Applicability.**

(a) Except as provided in paragraphs (b) and (c) of this section, the requirements of this subpart apply to the owner or operator of each wool fiberglass manufacturing facility that is a major source or is located at a facility that is a major source.

(b) The requirements of this subpart apply to emissions of hazardous air pollutants (HAPs), as measured according to the methods and procedures in this subpart, emitted from the following new and existing sources at a wool fiberglass manufacturing facility subject to this subpart:

- (1) Each new and existing glass-melting furnace located at a wool fiberglass manufacturing facility;
- (2) Each new and existing rotary spin wool fiberglass manufacturing line producing a bonded wool fiberglass building insulation product; and
- (3) Each new and existing flame attenuation wool fiberglass manufacturing line producing a bonded pipe product and each new flame attenuation wool fiberglass manufacturing line producing a bonded heavy-density product.

(c) The requirements of this subpart do not apply to a wool fiberglass manufacturing facility that the owner or operator demonstrates to the Administrator is not a major source as defined in § 63.2.

(d) The provisions of this part 63, subpart A that apply and those that do not apply to this subpart are specified in Table 1 of this subpart.

**§ 63.1381 Definitions.**

Terms used in this subpart are defined in the Clean Air Act, in § 63.2, or in this section as follows:

*Bag leak detection system* means systems that include, but are not limited to, devices using triboelectric, light scattering, and other effects to monitor relative or absolute particulate matter (PM) emissions.

*Bonded* means wool fiberglass to which a phenol-formaldehyde binder has been applied.

*Building insulation* means bonded wool fiberglass insulation, having a loss on ignition of less than 8 percent and a density of less than 32 kilograms per cubic meter (kg/m<sup>3</sup>) (2 pounds per cubic foot [lb/ft<sup>3</sup>]).

*Cold top electric furnace* means an all-electric glass-melting furnace that operates with a temperature of 120 °C (250 °F) or less as measured at a location 46 to 61 centimeters (18 to 24 inches) above the molten glass surface.

*Flame attenuation* means a process used to produce wool fiberglass where molten glass flows by gravity from melting furnaces, or pots, to form filaments that are drawn down and attenuated by passing in front of a high-velocity gas burner flame.

*Glass-melting furnace* means a unit comprising a refractory vessel in which raw materials are charged, melted at high temperature, refined, and conditioned to produce molten glass. The