

Environmental Protection Agency

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Thermoplastic product/Sub-category	Organic HAP/chemical name (CAS No.)							
	Acet-aldehyde (75-07-0)	Acrylonitrile (107-13-1)	1,3 Butadiene (106-99-0)	1,4-Dioxane (123-91-1)	Ethylene Glycol (107-21-1)	Methanol (67-56-1)	Methyl methacrylate (80-62-6)	Styrene (100-42-5)
SAN using a continuous process		✓						✓

CAS No. = Chemical Abstract Service Number.
 ABS = Acrylonitrile butadiene styrene resin.
 ASA/AMSAN = Acrylonitrile styrene resin/alpha methyl styrene acrylonitrile resin.
 EPS = expandable polystyrene resin.
 MABS = methyl methacrylate acrylonitrile butadiene styrene resin.
 PET = poly(ethylene terephthalate) resin.
 SAN = styrene acrylonitrile resin.
 MBS = methyl methacrylate butadiene styrene resin.

[66 FR 36942, July 16, 2001]

TABLE 7 TO SUBPART JJJ OF PART 63—GROUP 1 BATCH PROCESS VENTS AND AGGREGATE BATCH VENT STREAMS—MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

Control device	Parameters to be monitored	Recordkeeping and reporting requirements for monitored parameters
Thermal incinerator	Firebox temperature ^a	<ol style="list-style-type: none"> 1. Continuous records as specified in § 63.1326(e)(1).^b 2. Record and report the average firebox temperature measured during the performance test—NCS.^c 3. Record the batch cycle daily average firebox temperature as specified in § 63.1326(e)(2). 4. Report all batch cycle daily average temperatures that are below the minimum operating value established in the NCS or operating permit and all instances when monitoring data are not collected—PR.^{d,e}
Catalytic incinerator	Temperature upstream and downstream of the catalyst bed.	<ol style="list-style-type: none"> 1. Continuous records as specified in § 63.1326(e)(1).^b 2. Record and report the average upstream and bed downstream temperatures and the average temperature difference across the catalyst bed measured during the performance test—NCS.^c 3. Record the batch cycle daily average upstream temperature and temperature difference across catalyst bed as specified in § 63.1326(e)(2). 4. Report all batch cycle daily average upstream temperatures that are below the minimum upstream value established in the NCS or operating permit—PR.^{d,e} 5. Report all batch cycle daily average temperature differences across the catalyst bed that are below the minimum difference established in the NCS or operating permit—PR.^{d,e} 6. Report all instances when monitoring data are not collected.^e
Boiler or Process Heater with a design heat input capacity less than 44 megawatts and where the batch process vents or aggregate batch vent streams are not introduced with or used as the primary fuel.	Firebox temperature ^a	<ol style="list-style-type: none"> 1. Continuous records as specified in § 63.1326(e)(1).^b 2. Record and report the average firebox temperature measured during the performance test—NCS.^c 3. Record the batch cycle daily average firebox temperature as specified in § 63.1326(e)(2).^d 4. Report all batch cycle daily average temperatures that are below the minimum operating value established in the NCS or operating permit and all instances when monitoring data are not collected—PR.^{d,e}
Flare	Presence of a flame at the pilot light.	<ol style="list-style-type: none"> 1. Hourly records of whether the monitor was continuously operating during batch emission episodes, or portions thereof, selected for control and whether a flame was continuously present at the pilot light during said periods.

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Control device	Parameters to be monitored	Recordkeeping and reporting requirements for monitored parameters
Scrubber for halogenated batch process vents or aggregate batch vent streams (Note: Controlled by a combustion device other than a flare).	<p>a. pH of scrubber effluent, and</p>	<p>2. Record and report the presence of a flame at the pilot light over the full period of the compliance determination—NCS.^c</p> <p>3. Record the times and durations of all periods during batch emission episodes, or portions thereof, selected for control when all flames at the pilot light of a flare are absent or the monitor is not operating.</p> <p>4. Report the times and durations of all periods during batch emission episodes, or portions thereof, selected for control when all flames at the pilot light of a flare are absent—PR.^d</p> <p>1. Continuous records as specified in § 63.1326(e)(1).^b</p> <p>2. Record and report the average pH of the scrubber effluent measured during the performance test—NCS.^c</p> <p>3. Record the batch cycle daily average pH of the scrubber effluent as specified in § 63.1326(e)(2).</p> <p>4. Report all batch cycle daily average pH values of the scrubber effluent that are below the minimum operating value established in the NCS or operating permit and all instances when monitoring data are not collected—PR.^{d,e}</p>
Absorber ^f	<p>b. Scrubber liquid and gas flow rates.</p> <p>a. Exit temperature of the absorbing liquid, and.</p>	<p>1. Records as specified in § 63.1326(e)(1).^b</p> <p>2. Record and report the scrubber liquid/gas ratio averaged over the full period of the performance test—NCS.^c</p> <p>3. Record the batch cycle daily average scrubber liquid/gas ratio as specified in § 63.1326(e)(2).</p> <p>4. Report all batch cycle daily average scrubber liquid/gas ratios that are below the minimum value established in the NCS or operating permit and all instances when monitoring data are not collected—PR.^{d,e}</p> <p>1. Continuous records as specified in § 63.1326(e)(1).^b</p> <p>2. Record and report the average exit temperature of the absorbing liquid measured during the performance test—NCS.^c</p> <p>3. Record the batch cycle daily average exit temperature of the absorbing liquid as specified in § 63.1326(e)(2) for each batch cycle.</p> <p>4. Report all the batch cycle daily average exit temperatures of the absorbing liquid that are above the maximum operating value established in the NCS or operating permit and all instances when monitoring data are not collected—PR.^{d,e}</p>
Condenser ^f	<p>b. Exit specific gravity for the absorbing liquid.</p> <p>Exit (product side) temperature</p>	<p>1. Continuous records as specified in § 63.1326(e)(1).^b</p> <p>2. Record and report the average exit specific gravity measured during the performance test—NCS.^c</p> <p>3. Record the batch cycle daily average exit specific gravity as specified in § 63.1326(e)(2).</p> <p>4. Report all batch cycle daily average exit specific gravity values that are above the maximum operating value established in the NCS or operating permit and all instances when monitoring data are not collected—PR.^{d,e}</p> <p>1. Continuous records as specified in § 63.1326(e)(1).^b</p> <p>2. Record and report the average exit temperature measured during the performance test—NCS.^c</p> <p>3. Record the batch cycle daily average exit temperature as specified in § 63.1326(e)(2).</p> <p>4. Report all batch cycle daily average exit temperatures that are above the maximum operating value established in the NCS or operating permit and all instances when monitoring data are not collected—PR.^{d,e}</p>

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Control device	Parameters to be monitored	Recordkeeping and reporting requirements for monitored parameters
Carbon Adsorber ^f	<p>a. Total regeneration steam flow or nitrogen flow, or pressure (gauge or absolute) during carbon bed regeneration cycle(s), and.</p> <p>b. Temperature of the carbon bed after regeneration and within 15 minutes of completing any cooling cycle(s).</p>	<p>1. Record the total regeneration steam flow or nitrogen flow, or pressure for each carbon bed regeneration cycle.</p> <p>2. Record and report the total regeneration steam flow or nitrogen flow, or pressure during carbon bed regeneration cycle measured during the performance test—NCS.^c</p> <p>3. Report all carbon bed regeneration cycles when the total regeneration steam flow or nitrogen flow, or pressure is above the maximum value established in the NCS or operating permit—PR.^{d,e}</p> <p>1. Record the temperature of the carbon bed after each regeneration and within 15 minutes of completing any cooling cycle(s).</p> <p>2. Record and report the temperature of the carbon bed after each regeneration and within 15 minutes of completing any cooling cycle(s) measured during the performance test—NCS.^c</p> <p>3. Report all carbon bed regeneration cycles when the temperature of the carbon bed after regeneration, or within 15 minutes of completing any cooling cycle(s), is above the maximum value established in the NCS or operating permit—PR.^{d,e}</p>
All control devices	<p>a. Diversion to the atmosphere from the control device or.</p> <p>b. Monthly inspection of sealed valves..</p>	<p>1. Hourly records of whether the flow indicator was operating during batch emission episodes, or portions thereof, selected for control and whether a diversion was detected at any time during said periods as specified in § 63.1326(e)(3).</p> <p>2. Record and report the times of all periods during batch emission episodes, or portions thereof, selected for control when emissions are diverted through a bypass line or the flow indicator is not operating—PR.^d</p> <p>1. Records that monthly inspections were performed as specified in § 63.1326(e)(4)(i).</p> <p>2. Record and report all monthly inspections that show the valves are in the diverting position or that a seal has been broken—PR.^d</p>
Absorber, condenser, and carbon Adsorber (as an alternative to the requirements previously presented in this table).	Concentration level or reading indicated by an organic monitoring device at the outlet of the control device.	<p>1. Continuous records as specified in § 63.1326(e)(1).^b</p> <p>2. Record and report the average batch vent concentration level or reading measured during the performance test—NCS.^c</p> <p>3. Record the batch cycle daily average concentration level or reading as specified § 63.1326(e)(2).</p> <p>4. Report all batch cycle daily average concentration levels or readings that are above the maximum value established in the NCS or operating permit and all instances when monitoring data are not collected—PR.^{d,c}</p>

^a Monitor may be installed in the firebox or in the ductwork immediately downstream of the firebox before any substantial heat exchange is encountered.

^b "Continuous records" is defined in § 63.111.

^c NCS = Notification of Compliance Status described in § 63.1335(e)(5).

^d PR = Periodic Reports described in § 63.1335(e)(6).

^e The periodic reports shall include the duration of periods when monitoring data are not collected as specified in § 63.1335(e)(6)(iii)(C).

^f Alternatively, these devices may comply with the organic monitoring device provisions listed at the end of this table.

[66 FR 36939, July 16, 2001]

TABLE 8 TO SUBPART JJJ OF PART 63—OPERATING PARAMETERS FOR WHICH LEVELS ARE REQUIRED TO BE ESTABLISHED FOR CONTINUOUS AND BATCH PROCESS VENTS AND AGGREGATE BATCH VENT STREAMS

Device	Parameters to be monitored	Established operating parameter(s)
Thermal incinerator	Firebox temperature	Minimum temperature.
Catalytic incinerator	Temperature upstream and downstream of the catalyst bed.	Minimum upstream temperature; and minimum temperature difference across the catalyst bed.