

Environmental Protection Agency

Pt. 63, Subpt. EEEE, Table 9

For each . . .	If you . . .	You have demonstrated initial compliance if . . .
4. Equipment leak component, as defined in §63.2406, that operates in organic liquids service ≥300 hours per year at an existing, reconstructed, or new affected source.	<p>b. Install and, during the loading of organic liquids, operate a vapor balancing system.</p> <p>c. Route emissions to a fuel gas system or back to a process.</p> <p>a. Carry out a leak detection and repair program or equivalent control according to one of the subparts listed in table 4 to this subpart, item 4.a.</p>	<p>i. You design and operate the vapor balancing system to route organic HAP vapors displaced from loading of organic liquids into transport vehicles to the storage tank from which the liquid being loaded originated or to another storage tank connected to a common header.</p> <p>ii. You design and operate the vapor balancing system to route organic HAP vapors displaced from loading of organic liquids into containers directly (e.g., no intervening tank or containment area such as a room) to the storage tank from which the liquid being loaded originated or to another storage tank connected to a common header.</p> <p>i. See item 1.b.i of this table.</p> <p>i. You specify which one of the control programs listed in table 4 to this subpart you have selected, OR</p> <p>ii. Provide written specifications for your equivalent control approach.</p>

[71 FR 42918, July 28, 2006, as amended at 73 FR 21833, Apr. 23, 2008]

TABLE 8 TO SUBPART EEEE OF PART 63—CONTINUOUS COMPLIANCE WITH EMISSION LIMITS

As stated in §§63.2378(a) and (b) and 63.2390(b), you must show continuous compliance with the emission limits for existing, reconstructed, or new affected sources according to the following table:

For each . . .	For the following emission limit . . .	You must demonstrate continuous compliance by . . .
<p>1. Storage tank at an existing, reconstructed, or new affected source meeting any set of tank capacity and liquid organic HAP vapor pressure criteria specified in table 2 to this subpart, items 1 through 6.</p> <p>2. Transfer rack that is subject to control based on the criteria specified in table 2 to this subpart, items 7 through 10, at an existing, reconstructed, or new affected source.</p>	<p>a. Reduce total organic HAP (or, upon approval, TOC) emissions from the closed vent system and control device by 95 weight-percent or greater, or as an option to 20 ppmv or less of total organic HAP (or, upon approval, TOC) in the exhaust of combustion devices.</p> <p>a. Reduce total organic HAP (or, upon approval, TOC) emissions during the loading of organic liquids from the closed vent system and control device by 98 weight-percent or greater, or as an option to 20 ppmv or less of total organic HAP (or, upon approval, TOC) in the exhaust of combustion devices.</p>	<p>i. Performing CMS monitoring and collecting data according to §§63.2366, 63.2374, and 63.2378; AND</p> <p>ii. Maintaining the operating limits established during the design evaluation or performance test that demonstrated compliance with the emission limit.</p> <p>i. Performing CMS monitoring and collecting data according to §§63.2366, 63.2374, and 63.2378 during the loading of organic liquids; AND</p> <p>ii. Maintaining the operating limits established during the design evaluation or performance test that demonstrated compliance with the emission limit during the loading of organic liquids.</p>

[71 FR 42919, July 28, 2006]

TABLE 9 TO SUBPART EEEE OF PART 63—CONTINUOUS COMPLIANCE WITH OPERATING LIMITS—HIGH THROUGHPUT TRANSFER RACKS

As stated in §§63.2378(a) and (b) and 63.2390(b), you must show continuous compliance with the operating limits for existing, reconstructed, or new affected sources according to the following table:

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For each existing, reconstructed, and each new affected source using . . .	For the following operating limit . . .	You must demonstrate continuous compliance by . . .
1. A thermal oxidizer to comply with an emission limit in table 2 to this subpart.	a. Maintain the daily average fire box or combustion zone, as applicable, temperature greater than or equal to the reference temperature established during the design evaluation or performance test that demonstrated compliance with the emission limit.	i. Continuously monitoring and recording fire box or combustion zone, as applicable, temperature every 15 minutes and maintaining the daily average fire box temperature greater than or equal to the reference temperature established during the design evaluation or performance test that demonstrated compliance with the emission limit; AND ii. Keeping the applicable records required in § 63.998.
2. A catalytic oxidizer to comply with an emission limit in table 2 to this subpart.	a. Replace the existing catalyst bed before the age of the bed exceeds the maximum allowable age established during the design evaluation or performance test that demonstrated compliance with the emission limit; AND  b. Maintain the daily average temperature at the inlet of the catalyst bed greater than or equal to the reference temperature established during the design evaluation or performance test that demonstrated compliance with the emission limit; AND  c. Maintain the daily average temperature difference across the catalyst bed greater than or equal to the minimum temperature difference established during the design evaluation or performance test that demonstrated compliance with the emission limit.	i. Replacing the existing catalyst bed before the age of the bed exceeds the maximum allowable age established during the design evaluation or performance test that demonstrated compliance with the emission limit; AND ii. Keeping the applicable records required in § 63.998.  i. Continuously monitoring and recording the temperature at the inlet of the catalyst bed at least every 15 minutes and maintaining the daily average temperature at the inlet of the catalyst bed greater than or equal to the reference temperature established during the design evaluation or performance test that demonstrated compliance with the emission limit; AND ii. Keeping the applicable records required in § 63.998.  i. Continuously monitoring and recording the temperature at the outlet of the catalyst bed every 15 minutes and maintaining the daily average temperature difference across the catalyst bed greater than or equal to the minimum temperature difference established during the design evaluation or performance test that demonstrated compliance with the emission limit; AND ii. Keeping the applicable records required in § 63.998.
3. An absorber to comply with an emission limit in table 2 to this subpart.	a. Maintain the daily average concentration level of organic compounds in the absorber exhaust less than or equal to the reference concentration established during the design evaluation or performance test that demonstrated compliance with the emission limit; OR  b. Maintain the daily average scrubbing liquid temperature less than or equal to the reference temperature established during the design evaluation or performance test that demonstrated compliance with the emission limit; AND Maintain the difference between the specific gravities of the saturated and fresh scrubbing fluids greater than or equal to the difference established during the design evaluation or performance test that demonstrated compliance with the emission limit.	i. Continuously monitoring the organic concentration in the absorber exhaust and maintaining the daily average concentration less than or equal to the reference concentration established during the design evaluation or performance test that demonstrated compliance with the emission limit; AND ii. Keeping the applicable records required in § 63.998.  i. Continuously monitoring the scrubbing liquid temperature and maintaining the daily average temperature less than or equal to the reference temperature established during the design evaluation or performance test that demonstrated compliance with the emission limit; AND ii. Maintaining the difference between the specific gravities greater than or equal to the difference established during the design evaluation or performance test that demonstrated compliance with the emission limit; AND iii. Keeping the applicable records required in § 63.998.

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For each existing, reconstructed, and each new affected source using . . .	For the following operating limit . . .	You must demonstrate continuous compliance by . . .
<p>4. A condenser to comply with an emission limit in table 2 to this subpart.</p>	<p>a. Maintain the daily average concentration level of organic compounds at the exit of the condenser less than or equal to the reference concentration established during the design evaluation or performance test that demonstrated compliance with the emission limit; OR</p> <p>b. Maintain the daily average condenser exit temperature less than or equal to the reference temperature established during the design evaluation or performance test that demonstrated compliance with the emission limit.</p>	<p>i. Continuously monitoring the organic concentration at the condenser exit and maintaining the daily average concentration less than or equal to the reference concentration established during the design evaluation or performance test that demonstrated compliance with the emission limit; AND</p> <p>ii. Keeping the applicable records required in § 63.998.</p>
<p>5. An adsorption system with adsorbent regeneration to comply with an emission limit in table 2 to this subpart.</p>	<p>a. Maintain the daily average concentration level of organic compounds in the adsorber exhaust less than or equal to the reference concentration established during the design evaluation or performance test that demonstrated compliance with the emission limit; OR</p> <p>b. Maintain the total regeneration stream mass flow during the adsorption bed regeneration cycle greater than or equal to the reference stream mass flow established during the design evaluation or performance test that demonstrated compliance with the emission limit; AND                      Before the adsorption cycle commences, achieve and maintain the temperature of the adsorption bed after regeneration less than or equal to the reference temperature established during the design evaluation or performance test; AND                      Achieve greater than or equal to the pressure reduction during the adsorption bed regeneration cycle established during the design evaluation or performance test that demonstrated compliance with the emission limit.</p>	<p>i. Continuously monitoring the daily average organic concentration in the adsorber exhaust and maintaining the concentration less than or equal to the reference concentration established during the design evaluation or performance test that demonstrated compliance with the emission limit; AND</p> <p>ii. Keeping the applicable records required in § 63.998.</p> <p>iii. Maintaining the total regeneration stream mass flow during the adsorption bed regeneration cycle greater than or equal to the reference stream mass flow established during the design evaluation or performance test that demonstrated compliance with the emission limit; AND</p> <p>iv. Maintaining the temperature of the adsorption bed after regeneration less than or equal to the reference temperature established during the design evaluation or performance test that demonstrated compliance with the emission limit; AND</p> <p>v. Achieving greater than or equal to the pressure reduction during the regeneration cycle established during the design evaluation or performance test that demonstrated compliance with the emission limit; AND</p> <p>vi. Keeping the applicable records required in § 63.998.</p>
<p>6. An adsorption system without adsorbent regeneration to comply with an emission limit in table 2 to this subpart.</p>	<p>a. Maintain the daily average concentration level of organic compounds in the adsorber exhaust less than or equal to the reference concentration established during the design evaluation or performance test that demonstrated compliance with the emission limit; OR</p>	<p>i. Continuously monitoring the organic concentration in the adsorber exhaust and maintaining the concentration less than or equal to the reference concentration established during the design evaluation or performance test that demonstrated compliance with the emission limit; AND</p> <p>ii. Keeping the applicable records required in § 63.998.</p>

For each existing, reconstructed, and each new affected source using . . .	For the following operating limit . . .	You must demonstrate continuous compliance by . . .
<p>7. A flare to comply with an emission limit in table 2 to this subpart.</p> <p>8. Another type of control device to comply with an emission limit in table 2 to this subpart.</p>	<p>b. Replace the existing adsorbent in each segment of the bed before the age of the adsorbent exceeds the maximum allowable age established during the design evaluation or performance test that demonstrated compliance with the emission limit; AND Maintain the temperature of the adsorption bed less than or equal to the reference temperature established during the design evaluation or performance test that demonstrated compliance with the emission limit.</p> <p>a. Maintain a pilot flame in the flare at all times that vapors may be vented to the flare (§ 63.11(b)(5)); AND</p> <p>b. Maintain a flare flame at all times that vapors are being vented to the flare (§ 63.11(b)(5)); AND</p> <p>c. Operate the flare with no visible emissions, except for up to 5 minutes in any 2 consecutive hours (§ 63.11(b)(4)); AND EITHER</p> <p>d.1. Operate the flare with an exit velocity that is within the applicable limits in § 63.11(b)(7) and (8) and with a net heating value of the gas being combusted greater than the applicable minimum value in § 63.11(b)(6)(ii); OR</p> <p>d.2. Adhere to the requirements in § 63.11(b)(6)(i).</p> <p>Submit a monitoring plan as specified in §§ 63.995(c) and 63.2366(c), and monitor the control device in accordance with that plan.</p>	<p>i. Replacing the existing adsorbent in each segment of the bed with an adsorbent that meets the replacement specifications established during the design evaluation or performance test before the age of the adsorbent exceeds the maximum allowable age established during the design evaluation or performance test that demonstrated compliance with the emission limit; AND</p> <p>ii. Maintaining the temperature of the adsorption bed less than or equal to the reference temperature established during the design evaluation or performance test that demonstrated compliance with the emission limit; AND</p> <p>iii. Keeping the applicable records required in § 63.998.</p> <p>i. Continuously operating a device that detects the presence of the pilot flame; AND</p> <p>ii. Keeping the applicable records required in § 63.998.</p> <p>i. Maintaining a flare flame at all times that vapors are being vented to the flare; AND</p> <p>ii. Keeping the applicable records required in § 63.998.</p> <p>i. Operating the flare with no visible emissions exceeding the amount allowed; AND</p> <p>ii. Keeping the applicable records required in § 63.998.</p> <p>i. Operating the flare within the applicable exit velocity limits; AND</p> <p>ii. Operating the flare with the gas heating value greater than the applicable minimum value; AND</p> <p>iii. Keeping the applicable records required in § 63.998.</p> <p>i. Operating the flare within the applicable limits in 63.11(b)(6)(i); AND</p> <p>ii. Keeping the applicable records required in § 63.998.</p> <p>Submitting a monitoring plan and monitoring the control device according to that plan.</p>

[69 FR 5063, Feb. 3, 2004, as amended at 71 FR 42919, July 28, 2006]

TABLE 10 TO SUBPART EEEEE OF PART 63—CONTINUOUS COMPLIANCE WITH WORK PRACTICE STANDARDS

As stated in §§ 63.2378(a) and (b) and 63.2386(c)(6), you must show continuous compliance with the work practice standards for existing, reconstructed, or new affected sources according to the following table: