### Table 4 to Subpart GGG of Part 63—Monitoring Requirements for Control Devices

<table>
<thead>
<tr>
<th>Control device</th>
<th>Monitoring equipment required</th>
<th>Parameters to be monitored</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>All control devices</td>
<td>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.</td>
<td>1. Presence of flow diverted from the control device to the atmosphere or. 2. Monthly inspections of sealed valves.</td>
<td>Hourly records of whether the flow indicator was operating and whether a diversion was detected at any time during each hour. Monthly.</td>
</tr>
<tr>
<td>Scrubber</td>
<td>Liquid flow rate or pressure drop mounting device. Also a pH monitor if the scrubber is used to control acid emissions.</td>
<td>1. Liquid flow rate into or out of the scrubber or the pressure drop across the scrubber. 2. pH of effluent scrubber liquid.</td>
<td>1. Every 15 minutes. 2. Once a day.</td>
</tr>
<tr>
<td>Thermal incinerator</td>
<td>Temperature monitoring device installed in firebox or in ductwork immediately downstream of firebox.</td>
<td>Temperature difference across catalyst bed.</td>
<td>Every 15 minutes.</td>
</tr>
<tr>
<td>Catalytic incinerator</td>
<td>Temperature monitoring device installed in gas stream immediately before and after catalyst bed.</td>
<td>Temperature difference across catalyst bed.</td>
<td>Every 15 minutes.</td>
</tr>
<tr>
<td>Flare</td>
<td>Heat sensing device installed at the pilot light.</td>
<td>Presence of a flame at the pilot light.</td>
<td>Every 15 minutes.</td>
</tr>
<tr>
<td>Boiler or process heater &lt;44 mega watts and vent stream is not mixed with the primary fuel.</td>
<td>Temperature monitoring device installed in firebox.</td>
<td>Combustion temperature.</td>
<td>Every 15 minutes.</td>
</tr>
<tr>
<td>Condenser</td>
<td>Temperature monitoring device installed at condenser exit.</td>
<td>Condenser exit (product side) temperature.</td>
<td>Every 15 minutes.</td>
</tr>
<tr>
<td>Carbon adsorber (nonregenerative).</td>
<td>None.</td>
<td>Operating time since last regeneration.</td>
<td>N/A.</td>
</tr>
<tr>
<td>Carbon adsorber (regenerative).</td>
<td>Stream flow monitoring device, and. Carbon bed temperature monitoring device.</td>
<td>1. Total regeneration stream mass or volumetric flow during carbon bed regeneration cycle(s). 2. Temperature of carbon bed after regeneration. 3. Temperature of carbon bed within 15 minutes of completing any cooling cycle(s). 4. Operating time since end of last regeneration. 5. Check for bed poisoning.</td>
<td>1. For each regeneration cycle, record the total regeneration stream mass or volumetric flow. 2. For each regeneration cycle, record the maximum carbon bed temperature. 3. Within 15 minutes of completing any cooling cycle, record the carbon bed temperature. 4. Operating time to be based on worst-case conditions. 5. Yearly.</td>
</tr>
</tbody>
</table>

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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.

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