(k) On and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility located in a noncontinental area for which construction, reconstruction, or modification commenced after February 28, 2005, but before May 4, 2011, shall cause to be discharged into the atmosphere from that affected facility any gases that contain SO\(_2\) in excess of the applicable emissions limit specified in paragraphs (k)(1) and (2) of this section.

(1) For an affected facility that burns solid or solid-derived fuel, the owner or operator shall not cause to be discharged into the atmosphere any gases that contain SO\(_2\) in excess of 520 ng/J (1.2 lb/MMBtu) heat input.

(2) For an affected facility that burns other than solid or solid-derived fuel, the owner or operator shall not cause to be discharged into the atmosphere any gases that contain SO\(_2\) in excess of 230 ng/J (0.54 lb/MMBtu) heat input.

(l) Except as provided in paragraphs (j) and (m) of this section, on and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility for which construction, reconstruction, or modification commenced after May 3, 2011, shall cause to be discharged into the atmosphere from that affected facility any gases that contain SO\(_2\) in excess of the applicable emissions limit specified in paragraphs (m)(1) and (2) of this section.

(1) For an affected facility that burns solid or solid-derived fuel, the owner or operator shall not cause to be discharged into the atmosphere any gases that contain SO\(_2\) in excess of 520 ng/J (1.2 lb/MMBtu) heat input.

(2) For an affected facility that burns other than solid or solid-derived fuel, the owner or operator shall not cause to be discharged into the atmosphere any gases that contain SO\(_2\) in excess of 230 ng/J (0.54 lb/MMBtu) heat input.

§ 60.44Da Standards for nitrogen oxides (NO\(_X\)).

(a) Except as provided in paragraph (h) of this section, on and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected facility for which construction, reconstruction, or modification commenced before July 10, 1997 any gases that contain NO\(_X\) (expressed as NO\(_2\)) in excess of the applicable emissions limit listed in the following table as applicable to the fuel type combusted and as determined on a 30-boiler operating day rolling average basis.

<table>
<thead>
<tr>
<th>NO(_X) Limit</th>
<th>Fuel Type</th>
<th>Operating Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross Energy</td>
<td>130 ng/J (1.0 lb/MWh)</td>
<td>30</td>
</tr>
<tr>
<td>Net Energy</td>
<td>140 ng/J (1.2 lb/MWh)</td>
<td>30</td>
</tr>
<tr>
<td>Potential</td>
<td>3%</td>
<td>30</td>
</tr>
</tbody>
</table>

(ii) 10 percent of the potential combustion concentration (90 percent reduction).

(m) On and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility located in a noncontinental area for which construction, reconstruction, or modification commenced after May 3, 2011, shall cause to be discharged into the atmosphere from that affected facility any gases that contain SO\(_2\) in excess of the applicable emissions limit specified in paragraphs (m)(1) and (2) of this section.

(1) For an affected facility that burns solid or solid-derived fuel, the owner or operator shall not cause to be discharged into the atmosphere any gases that contain SO\(_2\) in excess of 520 ng/J (1.2 lb/MMBtu) heat input.

(2) For an affected facility that burns other than solid or solid-derived fuel, the owner or operator shall not cause to be discharged into the atmosphere any gases that contain SO\(_2\) in excess of 230 ng/J (0.54 lb/MMBtu) heat input.

§ 60.44Da

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Fuel type | Emission limit for heat input (ng/J lb/MMBtu)
--- | ---
Gaseous fuels:
- Coal-derived fuels | 210 | 0.50
- All other fuels | 86 | 0.20
Liquid fuels:
- Coal-derived fuels | 210 | 0.50
- Shale oil | 210 | 0.50
- All other fuels | 130 | 0.30
Solid fuels:
- Coal-derived fuels | 210 | 0.50
- Any fuel containing more than 25%, by weight, coal refuse, or lignite if the lignite is mined in North Dakota, South Dakota, or Montana, and is combusted in a slag tap furnace | 340 | 0.80
- Any fuel containing more than 25%, by weight, lignite not subject to the 340 ng/J heat input emission limit | 260 | 0.60
- Subbituminous coal | 210 | 0.50
- Bituminous coal | 260 | 0.60
- Anthracite coal | 260 | 0.60
- All other fuels | 260 | 0.60

1 Exempt from NOx standards and NOx monitoring requirements.

2 Any fuel containing less than 25%, by weight, lignite is not prorated but its percentage is added to the percentage of the predominant fuel.

(2) When two or more fuels are combusted simultaneously in an affected facility, the applicable emissions limit (En) is determined by proration using the following formula:

\[
En = \frac{(86w + 130x + 210y + 260z + 340v)}{100}
\]

Where:
- \(En\) = Applicable NOx emissions limit when multiple fuels are combusted simultaneously (ng/J heat input);
- \(w\) = Percentage of total heat input derived from the combustion of fuels subject to the 86 ng/J heat input standard;
- \(x\) = Percentage of total heat input derived from the combustion of fuels subject to the 130 ng/J heat input standard;
- \(y\) = Percentage of total heat input derived from the combustion of fuels subject to the 210 ng/J heat input standard;
- \(z\) = Percentage of total heat input derived from the combustion of fuels subject to the 260 ng/J heat input standard; and
- \(v\) = Percentage of total heat input delivered from the combustion of fuels subject to the 340 ng/J heat input standard.

(b)-(c) [Reserved]

(d) Except as provided in paragraph (h) of this section, on and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that commenced construction, reconstruction, or modification after July 9, 1997, but before March 1, 2005, shall cause to be discharged into the atmosphere from that affected facility any gases that contain NOx (expressed as NO2) in excess of the applicable emissions limit specified in paragraphs (d)(1) and (2) of this section as determined on a 30-boiler operating day rolling average basis.

(1) For an affected facility which commenced construction, any gases that contain NOx in excess of 200 ng/J (1.6 lb/MWh) gross energy output.

(2) For an affected facility which commenced reconstruction, any gases that contain NOx in excess of 65 ng/J (0.15 lb/MMBtu) heat input.

(e) Except as provided in paragraphs (f) and (h) of this section, on and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that commenced construction, reconstruction, or modification after February 28, 2005 but before
May 4, 2011, shall cause to be discharged into the atmosphere from that affected facility any gases that contain NO\textsubscript{X} (expressed as NO\textsubscript{2}) in excess of the applicable emissions limit specified in paragraphs (e)(1) through (3) of this section as determined on a 30-boiler operating day rolling average basis.

1. For an affected facility which commenced construction, any gases that contain NO\textsubscript{X} in excess of 130 ng/J (1.0 lb/MWh) gross energy output.

2. For an affected facility which commenced reconstruction, any gases that contain NO\textsubscript{X} in excess of either:
   (i) 130 ng/J (1.0 lb/MWh) gross energy output; or
   (ii) 47 ng/J (0.11 lb/MMBtu) heat input.

3. For an affected facility which commenced modification, any gases that contain NO\textsubscript{X} in excess of either:
   (i) 180 ng/J (1.4 lb/MWh) gross energy output; or
   (ii) 65 ng/J (0.15 lb/MMBtu) heat input.

(f) On and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, the owner or operator of an IGCC electric utility steam generating unit subject to the provisions of this subpart and for which construction, reconstruction, or modification commenced after February 28, 2005 but before May 4, 2011, shall meet the requirements specified in paragraphs (f)(1) through (3) of this section.

1. Except as provided for in paragraphs (f)(2) and (3) of this section, the owner or operator shall not cause to be discharged into the atmosphere any gases that contain NO\textsubscript{X} in excess of either:
   (i) 88 ng/J (0.70 lb/MWh) gross energy output; or
   (ii) 95 ng/J (0.76 lb/MWh) net energy output.

2. When burning liquid fuel exclusively or in combination with solid-derived fuel such that the liquid fuel contributes 50 percent or more of the total heat input to the combined cycle combustion turbine, the owner or operator shall not cause to be discharged into the atmosphere any gases that contain NO\textsubscript{X} (expressed as NO\textsubscript{2}) in excess of 190 ng/J (1.5 lb/MWh) gross energy output.

3. In cases when during a 30-boiler operating day rolling average compliance period liquid fuel is burned in such a manner to meet the conditions in paragraph (f)(2) of this section for only a portion of the clock hours in the 30-day compliance period, the owner or operator shall not cause to be discharged into the atmosphere any gases that contain NO\textsubscript{X} (expressed as NO\textsubscript{2}) in excess of the computed weighted-average emissions limit based on the proportion of gross energy output (in MWh) generated during the compliance period for each of emissions limits in paragraphs (f)(1) and (2) of this section.

(g) Except as provided in paragraphs (h) of this section and §60.45Da, on and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, the owner or operator of an affected facility that commenced construction, reconstruction, or modification after May 3, 2011, shall cause to be discharged into the atmosphere from that affected facility any gases that contain NO\textsubscript{X} (expressed as NO\textsubscript{2}) in excess of the applicable emissions limit specified in paragraphs (g)(1) through (3) of this section.

1. For an affected facility which commenced construction or reconstruction, any gases that contain NO\textsubscript{X} in excess of either:
   (i) 88 ng/J (0.70 lb/MWh) gross energy output; or
   (ii) 95 ng/J (0.76 lb/MWh) net energy output.

2. When burning 75 percent or more coal refuse (by heat input) on a 12-month rolling average basis, any gases that contain NO\textsubscript{X} in excess of either:
   (i) 110 ng/J (0.85 lb/MWh) gross energy output; or
   (ii) 120 ng/J (0.92 lb/MWh) net energy output.

(h) The NO\textsubscript{X} emissions limits under this section do not apply to an owner or operator of an affected facility which is operating under a commercial demonstration permit issued by the Administrator in accordance with the provisions of §60.47Da.

[77 FR 9451, Feb. 16, 2012]