PROPOSED BSER FOR NEW OR RECONSTRUCTED STATIONARY COMBUSTION TURBINES UNDER SECTION 111(b)

<table>
<tr><th>Phase I
(By date of promulgation or upon initial startup)</th><th>Phase II
Beginning in 2032 or 2035</th><th>Phase III
Beginning in 2038</th></tr>
<tr><td colspan="3">Low Load Subcategory (Capacity Factor <20%)</td></tr>
<tr><td>BSER: Use of low emitting fuels (e.g., natural gas and distillate oil)

Standard of Performance: 120 lb CO_2/MMBtu-160 lb CO_2/MMBtu, depending on fuel type</td><td>No proposed Phase II BSER component or standard of performance</td><td>No proposed Phase III BSER component or standard of performance</td></tr>
<tr><td colspan="3">Intermediate Load Subcategory (Capacity Factor 20% to ~50%[1])</td></tr>
<tr><td>BSER: Highly efficient simple cycle generation

Standard of Performance: 1,150 lb CO_2/MWh-gross</td><td>BSER: Continued highly efficient simple cycle generation with 30% (by volume) low-GHG hydrogen co-firing by 2032

Standard of Performance: 1,000 lb CO_2/MWh-gross</td><td>No proposed Phase III BSER component or standard of performance</td></tr>
<tr><td colspan="3">Base Load Subcategory (Capacity Factor >~50%) Limit</td></tr>
<tr><td rowspan="4">BSER: Highly efficient combined cycle generation

Standard of Performance:
• 770 lb CO_2/MWh-gross for EGUs with a base load rating of 2,000 MMBtu/h or more
• 770 lb – 900 lb CO_2/MWh-gross for EGUs with a base load rating of less than 2,000 MMBtu/h</td><td colspan="2">Low-GHG Hydrogen Pathway BSER</td></tr>
<tr><td>BSER: Continued highly efficient combined cycle generation with 30% (by volume) low-GHG hydrogen co-firing by 2032

Standard of Performance: 680 lb CO_2/MWh-gross</td><td>BSER: 96% (by volume) low-GHG hydrogen co-firing beginning in 2038

Standard of Performance: 90 lb CO_2/MWh-gross</td></tr>
<tr><td colspan="2">CCS Pathway BSER</td></tr>
<tr><td>BSER: Continued highly efficient combined cycle generation with 90% CCS by 2035

Standard of Performance: 90 lb CO_2/MWh-gross</td><td>No Phase III BSER component or standard of performance</td></tr>
</table>

[1] The upper bound is source-specific that is based on the design efficiency of the combustion turbine.

PROPOSED BSER FOR EXISTING SOURCES UNDER SECTION 111(d)

BSER	Emissions Guideline/ Presumptive Performance Standard
Large, frequently operated existing fossil fuel-fired stationary combustion turbines (larger than 300 MW with an annual capacity factor of greater than 50 percent)	
CCS Pathway BSER: Highly efficient generation with 90% CCS by 2035	90 lb CO_2/MWh-gross
Low-GHG Hydrogen Pathway BSER:	
• Highly efficient generation with 30% (by volume) low-GHG hydrogen co-firing by 2032	680 lb CO_2/MWh-gross
• Highly efficient generation with 96% (by volume) low-GHG hydrogen co-firing by 2038	90 lb CO_2/MWh-gross
Long-term coal-fired units (Coal-fired steam generating units that have not committed to cease operations by January 1, 2040)	
90% CCS by 2030[2]	88.4% reduction in annual emission rate (lb CO_2/MWh-gross) from the unit-specific baseline
Medium-term coal-fired units (Committed to ceasing operations between December 31, 2031 January 1, 2040 and that are not in other categories)	
Natural gas co-firing at 40% (by volume) of the heat input to the unit by 2030	16% reduction in annual emission rate (lb CO_2/MWh-gross) from the unit-specific baseline

[2] Same BSER applies to existing coal-fired steam generating units that underwent a large modification (i.e., a change that increases hourly CO_2 emissions by more than 10% compared with previous 5 years).

BSER	Emissions Guideline/ Presumptive Performance Standard
Near-term coal-fired units (Coal-fired steam generating units committed to ceasing operations between December 31, 2031 and January 1, 2035, and adopting an annual capacity factor limit of 20%) **Imminent-term coal-fired units** (Coal-fired generating units committed to ceasing operations before January 1, 2032)	
Routine methods of operation and maintenance	**Emission Guideline:** No increase in emission rate (lb CO_2/MWh-gross) **Presumptive Performance Standard:** An emission rate limit (lb CO_2/MWh-gross) defined by the unit-specific baseline
Base load natural gas- or continental and non-continental oil-fired steam generating units (annual capacity factor greater than or equal to 45% for gas-fired and continental oil-fired) (annual capacity factor greater than or equal to 8% for non-continental oil-fired)	
Routine methods of operation and maintenance	**Emission Guideline:** No increase in emission rate (lb CO_2/MWh-gross) **Presumptive Performance Standard:** An annual emission rate limit of 1,300 lb CO_2/MWh-gross (except for non-continental oil-fired units, which is an emission rate limit (lb CO_2/MWh-gross) defined by the unit-specific baseline)
Intermediate load natural gas- or continental and non-continental oil-fired steam generating units (annual capacity factor greater than or equal to 8% and less than 45% for gas-fired and continental oil-fired) (annual capacity factor greater than or equal to 8% for non-continental oil-fired)	
Routine methods of operation and maintenance	**Emission Guideline:** No increase in emission rate (lb CO_2/MWh-gross) **Presumptive Performance Standard:** An annual emission rate limit of 1,500 lb CO_2/MWh-gross (except for non-continental oil-fired units, which is an emission rate limit (lb CO_2/MWh-gross) defined by the unit-specific baseline)