

**SANTA BARBARA COUNTY APCD  
DEFAULT BOILER/PROCESS HEATER/LARGE WATER HEATER/  
STEAM GENERATOR EMISSION FACTORS**

2/28/2012

**FUEL:** All Gaseous Fuels

**RATED HEAT INPUT (Btu/hr)**

**DEFAULT EMISSION FACTORS (lb/MMBtu)**

75,000 – 400,000	NO <sub>x</sub>	ROC	CO	SO <sub>x</sub>	PM	PM <sub>10</sub>
Uncontrolled <sup>1</sup>	0.092	0.0054	0.039	0.169*/HHV	0.0075	0.0075
Rule 360	0.066	0.0054	0.039	0.169*/HHV	0.0075	0.0075
BACT	0.036	0.0054	0.037	0.169*/HHV	0.0075	0.0075
400,001 – 2,000,000	NO <sub>x</sub>	ROC	CO	SO <sub>x</sub>	PM	PM <sub>10</sub>
Uncontrolled <sup>1</sup>	0.098	0.0054	0.082	0.169*/HHV	0.0075	0.0075
Rule 360	0.036	0.0054	0.297	0.169*/HHV	0.0075	0.0075
BACT	0.024	0.0054	0.074	0.169*/HHV	0.0075	0.0075
2,000,001 – 4,999,999	NO <sub>x</sub>	ROC	CO	SO <sub>x</sub>	PM	PM <sub>10</sub>
Uncontrolled <sup>1</sup>	0.098	0.0054	0.082	0.169*/HHV	0.0075	0.0075
Rule 361	0.036	0.0054	0.297	0.169*/HHV	0.0075	0.0075
BACT (atmospheric units)	0.014	0.0054	0.074	0.169*/HHV	0.0075	0.0075
BACT (non-atmospheric units)	0.011	0.0054	0.074	0.169*/HHV	0.0075	0.0075
5,000,000 and greater	NO <sub>x</sub>	ROC	CO	SO <sub>x</sub>	PM	PM <sub>10</sub>
Uncontrolled <sup>1</sup>	0.098	0.0054	0.082	0.169*/HHV	0.0075	0.0075
Rule 342	0.036	0.0054	0.297	0.169*/HHV	0.0075	0.0075
BACT (5 to 20 MMBtu/hr)	0.011	0.0054	0.037	0.169*/HHV	0.0075	0.0075
BACT (20 to 25 MMBtu/hr)	0.008	0.0054	0.037	0.169*/HHV	0.0075	0.0075
BACT (26+ MMBtu/hr)	0.006	0.0054	0.037	0.169*/HHV	0.0075	0.0075
<i>BACT Oilfield Steam Generators</i>						
(5 to 20 MMBtu/hr, PUC fired)	0.011	0.0054	0.037	0.169*/HHV	0.0075	0.0075
(20 + MMBtu/hr, PUC fired)	0.008	0.0054	0.037	0.169*/HHV	0.0075	0.0075
Produced gas fired <sup>2</sup>	0.011	0.0054	0.037	0.169*/HHV	0.0075	0.0075

**NOTE:**

- (1) To determine the uncontrolled NO<sub>x</sub> emission factor for a unit fired on propane fuel, multiply the uncontrolled NO<sub>x</sub> emission factor by a correction factor of 1.5, which is the approximate ratio of propane NO<sub>x</sub> emissions to natural gas NO<sub>x</sub> emissions (Reference AP-42 Table 1.5-1 Emission Factors for LPG Combustion 10/96).
- (2) Emission factors based on a fuel F-factor of 8,608 dscf/MMBtu. For units fired on produced gas with a significantly different F-factor, the emission factor must be calculated based on the actual F-factor of the gas.