

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permits 17411 and PSD-TX-720-M2

### CASE II: Gas Firing with HRSG Firing

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

#### AIR CONTAMINANTS DATA

| Emission<br>Point No. (1) | Source   |          | Air Contaminant |     | <u>Emission Rates *</u> |       |
|---------------------------|--|----------|-----------------|-----|-------------------------|-------|
|                           | Name (2)   | Name (3) | lb/hr           | TPY |                         |       |
| E-1                       | 90 MWe (Max) Gas Turbine<br>with HRSG Firing (4) (5) |          |                 | VOC | 4.9                     | 7.0   |
|                           |  |          |                 | NOx | 198.0                   | 384.0 |
|                           |  |          |                 | SO2 | 24.4                    | 47.0  |
|                           |  |          |                 | PM  | 2.9                     | 5.0   |
|                           |  |          |                 | CO  | 48.5                    | 80.0  |
| E-2                       | 90 MWe (Max) Gas Turbine<br>with HRSG Firing (4) (5) |          |                 | VOC | 4.9                     | 7.0   |
|                           |  |          |                 | NOx | 198.0                   | 384.0 |
|                           |  |          |                 | SO2 | 24.4                    | 47.0  |
|                           |  |          |                 | PM  | 2.9                     | 5.0   |
|                           |  |          |                 | CO  | 48.5                    | 80.0  |

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) PM - particulate matter  
VOC - volatile organic compounds as defined in General Rule 101.1  
NOx - total oxides of nitrogen  
SO2 - sulfur dioxide  
CO - carbon monoxide
- (4) Maximum electric output and emissions occur at 10°F ambient temperature.
- (5) HRSG - Heat Recovery Steam Generator.

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year \*\*

\*\* HRSG firing is limited to a maximum of 312,000 MMBtu/year for each HRSG duct burner system. Supporting operation and fuel vendor records shall be kept for the time periods specified in General Provision No. 5.

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Revised \_\_\_\_\_

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