

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 17692

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

| <u>Emission</u><br>*                           | <u>Source</u>                         | <u>Air Contaminant</u> | <u>Emission Rates</u> |            |
|--|---------------------------------------|------------------------|-----------------------|------------|
| <u>Point No. (1)</u>                           | <u>Name (2)</u>                       | <u>Name (3)</u>        | <u>lb/hr</u>          | <u>TPY</u> |
| DT-1   | DynaTest Stack No. 1                  | NO <sub>x</sub>        | 799.0                 | 39.2       |
|  |                                       | CO                     | 344.7                 | 31.7       |
|  |                                       | VOC                    | 91.5                  | 8.5        |
|  |                                       | SO <sub>2</sub>        | 110.3                 | 1.5        |
|  |                                       | PM                     | 5.0                   | 0.7        |
| DT-2   | DynaTest Stack No. 2                  | NO <sub>x</sub>        | 799.0                 | 39.2       |
|  |                                       | CO                     | 344.7                 | 31.7       |
|  |                                       | VOC                    | 91.5                  | 8.5        |
|  |                                       | SO <sub>2</sub>        | 110.3                 | 1.5        |
|  |                                       | PM                     | 5.0                   | 0.7        |
| TEST-1   | Turbine Testline                      | NO <sub>x</sub>        | 698.0                 | 25.7       |
|  |                                       | CO                     | 375.0                 | 3.1        |
|  |                                       | VOC                    | 103.0                 | 0.7        |
|  |                                       | SO <sub>2</sub>        | 111.0                 | 2.6        |
|  |                                       | PM                     | 11.1                  | 0.5        |
| E-3(a-d)                                       | Paint Shop                            | VOC                    | 34.6                  | 5.5        |
|  |                                       | PM                     | 1.0                   | 0.2        |
| E-4(a-d)                                       | Paint/Tear down Shop                  | VOC                    | 28.4                  | 5.0        |
|  |                                       | PM                     | 1.0                   | 0.2        |
| E-4FUG   | Paint/Tear down Shop<br>Fugitives (4) | VOC                    | 6.3                   | 0.6        |
| COMP-1<br>(Exemption No. 6, December 17, 1987) | Testline Compressor                   | NO <sub>x</sub>        | 31.7                  | 15.6       |
|  |                                       | CO                     | 1.8                   | 0.9        |
|  |                                       | VOC                    | 1.8                   | 0.9        |

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|---------------|----------|-----------------|-----------------------|--|
| Point No. (1) | Name (2) | Name (3)        | lb/hr                 |  |
| TPY           |          |                 |                       |  |

|                 |     |      |
|-----------------|-----|------|
| SO <sub>2</sub> | 0.2 | 0.03 |
| PM              | 3.0 | 1.5  |

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| Emission<br>*                            | Source   | Air Contaminant  | Emission | Rates |
|--|--|------------------|----------|-------|
| Point No. (1)                            | Name (2)                                       | Name (3)         | lb/hr    |       |
|  | TPY  |                  |          |       |
| E-2FUG                                   | Fabrication Shop/                              | VOC              | 15.1     | 0.2   |
| (Exemption No. 75, May 6, 1993)          | Maintenance Building                           | PM               | 24.3     | 0.4   |
| CLTEST-1, 2, 3 and 4                     | Closed Loop Test Cell                          | NO <sub>x</sub>  | 370.6    | 12.7  |
|  |  | CO               | 132.7    | 5.7   |
|  |  | VOC              | 53.4     | 2.6   |
|  |  | SO <sub>2</sub>  | 5.3      | 0.7   |
|  |  | PM               | 5.0      | 0.5   |
| CLFUG-1                                  | Closed Loop Fugitives (4) 1.2                  | VOC              |          | 0.4   |
| E-200                                    | Closed Loop Cooling Tower                      | VOC              | 0.2      | 0.03  |
| T-160 (Exemption No. 53, August, 1994)   | Seal Oil Tank                                  | VOC              | 0.1      | 0.01  |
| T-170 (Exemption No. 53, August, 1994)   | Lube Oil Tank                                  | VOC              | 0.1      | 0.01  |
| Flare-1 (Exemption No. 80, August, 1994) | Closed Loop Flare                              | NO <sub>x</sub>  | 0.1      | 0.01  |
|  |  | CO               | 0.9      | 0.12  |
|  |  | VOC              | 0.1      | 0.02  |
|  |  | H <sub>2</sub> S | 0.03     | 0.004 |
|  |  | SO <sub>2</sub>  | 2.6      | 0.33  |
| AUX-1                                    | Dynatest Auxiliary Diesel Generator (2,020 hp) | NO <sub>x</sub>  | 39.2     | 24.0  |
|  |  | CO               | 24.4     | 15.0  |
|  |  | VOC              | 0.8      | 0.5   |
|  |  | SO <sub>2</sub>  | 2.7      | 1.7   |
|  |  | PM <sub>10</sub> | 4.5      | 2.7   |

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|---------------|----------|-----------------|-----------------------|
| Point No. (1) | Name (2) | Name (3)        | lb/hr                 |
|               | TPY      |                 |                       |

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| Emission<br>* | Source   | Air Contaminant  | <u>Emission Rates</u> |     |
|---------------|--|------------------|-----------------------|-----|
| Point No. (1) | Name (2)   | Name (3)         | lb/hr                 |     |
|               | TPY  |                  |                       |     |
| AUX-2         | Testline Auxiliary<br>Diesel Generator<br>(747 hp) | NO <sub>x</sub>  | 17.2                  | 6.9 |
|               |  | CO               | 6.1                   | 2.5 |
|               |  | VOC              | 0.2                   | 0.1 |
|               |  | SO <sub>2</sub>  | 1.6                   | 0.7 |
|               |  | PM <sub>10</sub> | 1.7                   | 0.7 |

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

(2) Specific point source name. For fugitive sources, area name or fugitive source name.

(3) NO<sub>x</sub> - nitrogen oxides

CO - carbon monoxide

VOC - volatile organic compounds as defined in General Rule 101.1

SO<sub>2</sub> - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.

PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter.

Where PM is not listed, it shall

be assumed that no particulate matter greater than 10 microns is emitted.

H<sub>2</sub>S - hydrogen sulfide

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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

240 hrs/year at each of three load levels or 720 hrs/year total for the DynaTest stacks. Levels are no load, any load (computed at maximum load), and maximum load. DynaTest testing is additionally limited to 180 turbines tested per year with periods averaging four hours/test. Emission factors are based on a composite of GE data for LM2500,

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|               | TPY      |                 |                       |

LM5000, and LM6000 Turbines.

985 hrs/year for EPN COMP-1, based on 120 hrs/year supporting TEST-1 operations, 585 hrs/year supporting DynaTest operations, and 280 hrs/year supporting the closed loop test cell.

1,200 hrs/year for EPN AUX-1 and 800 hrs/year for EPN AUX-2.

Dated \_\_\_\_\_