

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 3131A

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 * | Source | Air Contaminant | <u>Emission Rates</u> | |
|-------------------------------|---|-----------------|-----------------------|-------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY |
| STK1 | Gas Engine 230-hp Clark (6) | NO _x | 13.68 | 59.91 |
| | | CO | 2.94 | 12.87 |
| | | SO ₂ | <0.01 | <0.01 |
| | | VOC | 0.66 | 2.88 |
| STK2 | Gas Engine 230-hp Clark (6) | NO _x | 13.68 | 59.91 |
| | | CO | 2.94 | 12.87 |
| | | SO ₂ | <0.01 | <0.01 |
| | | VOC | 0.66 | 2.88 |
| STK3 | Gas Engine 230-hp Clark (6) | NO _x | 13.68 | 59.91 |
| | | CO | 2.94 | 12.87 |
| | | SO ₂ | <0.01 | <0.01 |
| | | VOC | 0.66 | 2.88 |
| STK4 | Gas Engine 1,100-hp C-B | NO _x | 63 | 275.9 |
| | | CO | 1.99 | 8.7 |
| | | SO ₂ | <0.01 | <0.02 |
| | | VOC | 0.34 | 1.49 |
| STK5 | Gas Engine 520-hp White Superior 9.03 | NO _x | 17.18 | 75.25 |
| | | CO | | 2.06 |
| | | SO ₂ | <0.01 | <0.01 |
| | | VOC | 0.23 | 1.0 |
| STK6A, STK6B, STK6C, STK6D | Turbine (31,050-hp) | NO _x | 90.3 | 395.4 |
| | | CO | 34.2 | 149.8 |
| | | SO ₂ | 0.14 | 0.6 |
| | | VOC | 6.16 | 26.96 |

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|--------------------------------|-----------------------------|-----------------------------|----------------|-------|
| | | | lb/hr | TPY |
| BLRSTK1 | West Boiler | NO ₂ | 2.73 | 11.98 |
| | | CO | 0.68 | 2.99 |
| | | SO ₂ | 0.01 | 0.05 |
| | | VOC | 0.05 | 0.24 |
| | | PM | 0.02 | 0.09 |
| VENT1 | Vent Stack (5) | VOC | 3.23 | 14.13 |
| BLRSTK2 | East Boiler | NO _x | 3.78 | 16.58 |
| | | CO | 0.95 | 4.14 |
| | | SO ₂ | 0.02 | 0.07 |
| | | VOC | 0.08 | 0.33 |
| | | PM | 0.03 | 0.12 |
| HTRSTK2 | East Glycol Heater | NO _x | 1.58 | 6.93 |
| | | CO | 0.4 | 1.73 |
| | | SO ₂ | 0.01 | 0.03 |
| | | VOC | 0.03 | 0.14 |
| | | PM | 0.01 | 0.05 |
| HTRSTK1 | West Glycol Heater | NO _x | 1.85 | 8.09 |
| | | CO | 0.46 | 2.02 |
| | | SO ₂ | 0.01 | 0.03 |
| | | VOC | 0.04 | 0.16 |
| | | PM | 0.01 | 0.06 |
| E-40 | Glycol Storage | VOC | <0.01 | <0.01 |
| E-41 | Fuel Compressor Lube Oil | VOC | <0.01 | <0.01 |
| E-42 | Fuel Compressor Lube Oil | VOC | <0.01 | <0.01 |
| E-44 | Turbine Lube Oil | VOC | <0.01 | <0.01 |
| E-45 | HC Pump Lube Oil | VOC | <0.01 | <0.01 |

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|--------------------------------|---------------------|-----------------------------|-----------------------|------------|
| | | | <u>lb/hr</u> | <u>TPY</u> |
| E-46 | Expander Lube Oil | VOC | <0.01 | <0.01 |
| E-47 | PB 87 Lube Oil | VOC | <0.01 | <0.01 |
| E-49 | Glycol Filter Flush | VOC | <0.01 | <0.01 |
| E-50 | PB 87 Used Oil | VOC | <0.01 | <0.01 |
| E-51 | Filtered Glycol-1 | VOC | <0.01 | <0.01 |
| E-52 | Filtered Glycol-2 | VOC | <0.01 | <0.01 |
| E-53 | Filtered Glycol-3 | VOC | <0.01 | <0.01 |
| E-54 | Antifreeze Storage | VOC | <0.01 | <0.01 |
| E-55 | Amine Storage | VOC | <0.01 | <0.01 |
| E-56 | Solvent Storage | VOC | <0.01 | <0.01 |
| E-57 | Fire Pump Fuel | VOC | <0.01 | <0.01 |
| E-58 | Wastewater Tank | VOC | <0.01 | <0.01 |
| E-59 | Wastewater Tank | VOC | <0.01 | <0.01 |
| E-60 | Wastewater Tank | VOC | <0.01 | <0.01 |
| E-61 | Receiver Vent | VOC | 6.0 | 0.16 |
| | | H ₂ S | 0.013 | 0.0003 |
| E-62 | Cooling Tower | VOC | 0.168 | 0.74 |
| FUG1, FUG2, FUG3, | Plant Fugitives (4) | VOC (NMNE HC) | 34.94 | 153.03 |

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|--------------------------------|-------------------------------|-----------------------------|----------------|--------|
| | | | lb/hr | TPY |
| FUG4, FUG5, FUG6, 0.90 | | VOC (Methanol) | | 0.21 |
| FUG7, FUG7A, FUG8, 0.78 | | H ₂ S | | 0.18 |
| FUG9, FUG10, FUG11 | | | | |
| ICN-SA | Portable Waste Incinerator | NO _x | 0.05 | 0.013 |
| | | CO | 0.205 | 0.053 |
| | | SO ₂ | 0.286 | 0.0745 |
| | | VOC | 0.026 | 0.0068 |
| | | PM | 0.409 | 0.106 |

- (1) Emission point identification - either specific equipment designation or Emission Point Number (EPN) from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) PM - particulate matter, suspended in the atmosphere, including PM₁₀
 PM₁₀ - 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.
 VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1
 NO_x - total oxides of nitrogen
 NO₂ - nitrogen dioxide
 SO₂ - sulfur dioxide
 CO - carbon monoxide
 H₂S - hydrogen sulfide
 VOC (NMNE HC) - Non-methane Non-ethane Hydrocarbons
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) See Special Condition No. 4.
- (6) These three engines will be permanently shut down by June 30, 1997 unless an extension to continue operation is authorized. See Special Condition No. 15.

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

* Except for EPN ICN-SA, emission rates are based on and the facilities are limited by the following maximum operating schedule:

_____ Hrs/day _____ Days/week _____ Weeks/year or 8,760
Hrs/year

The emission rates of EPN ICN-SA are based on and the facility is limited by the following maximum operating schedule

_____ Hrs/day _____ Days/week _____ Weeks/year or 364
Hrs/year

Dated_____