

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

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AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>

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## AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
BLRSTK1	West Boiler	NO <sub>x</sub>	2.73	11.98
		CO	0.68	2.99
		SO <sub>2</sub>	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 <sub>x</sub>	3.78	16.58
		CO	0.95	4.14
		SO <sub>2</sub>	0.02	0.07
		VOC	0.08	0.33
		PM	0.03	0.12
HTRSTK2	East Glycol Heater	NO <sub>x</sub>	1.58	6.93
		CO	0.4	1.73
		SO <sub>2</sub>	0.01	0.03
		VOC	0.03	0.14
		PM	0.01	0.05
HTRSTK1	West Glycol Heater	NO <sub>x</sub>	1.85	8.09
		CO	0.46	2.02
		SO <sub>2</sub>	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

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			<u>lb/hr</u>	<u>TPY</u>
E-44	Turbine Lube Oil	VOC	<0.01	<0.01
E-45	HC Pump Lube Oil	VOC	<0.01	<0.01
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 <sub>2</sub> S	0.013	0.0003

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
E-62	Cooling Tower	VOC	0.168	0.74
FUG1, FUG2, FUG3	Plant Fugitives (4)	VOC (NMNE HC)	34.94	153.03
FUG4, FUG5,		VOC (Methanol)	0.21	0.90
FUG6, FUG7,		H <sub>2</sub> S	0.18	0.78
FUG7A, FUG8,				
FUG9, FUG 10				
FUG11				
ICN-SA	Smart Ash	NO <sub>x</sub>	0.05	<0.1
		CO	0.21	<0.1
	Portable Incinerator	SO <sub>2</sub>	0.29	<0.1
		VOC	0.03	<0.1
		PM <sub>10</sub>	0.41	<0.1

- (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, 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.
- VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1
- NO<sub>x</sub> - total oxides of nitrogen
- SO<sub>2</sub> - sulfur dioxide
- CO - carbon monoxide
- H<sub>2</sub>S - hydrogen sulfide
- (4) Fugitive emissions are an estimate only and should not be considered

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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.

\* Except for emission point number (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 520 Hrs/year

Dated\_\_\_\_\_