

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 20660 and PSD-TX-795M2

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
1	Cooper-Bessemer Engine Model GMVH-12 2,400-hp <b>(01/03)</b>	NO <sub>x</sub>	44.40	162.06
		CO	6.35	23.17
		VOC	6.35	23.17
		SO <sub>2</sub>	0.36	1.31
		PM <sub>10</sub>	0.62	2.25
2	Clark Engine Model TLAB-6 2,000-hp <b>(01/03)</b>	NO <sub>x</sub>	84.58	308.72
		CO	8.99	32.80
		VOC	1.32	4.80
		SO <sub>2</sub>	0.31	1.12
		PM <sub>10</sub>	0.53	1.93
3	Clark Engine Model TLAB-6 2,000-hp <b>(01/03)</b>	NO <sub>x</sub>	84.58	308.72
		CO	8.99	32.80
		VOC	1.32	4.80
		SO <sub>2</sub>	0.31	1.12
		PM <sub>10</sub>	0.53	1.93
4	Ingersoll-Rand Engine Model IR-SVG-8 440-hp	NO <sub>x</sub>	18.41	80.64
		CO	0.68	2.98
		VOC	0.48	2.10
		SO <sub>2</sub>	0.70	3.10
		PM <sub>10</sub>	<0.01	<0.01
5	Ingersoll-Rand Engine Model IR-SVG-8 440-hp	NO <sub>x</sub>	18.41	80.64
		CO	0.68	2.98
		VOC	0.48	2.10
		SO <sub>2</sub>	0.70	3.10
		PM <sub>10</sub>	<0.01	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
6	Hot Oil Heater 12 MMBtu/hr (01/03)	NO <sub>x</sub>	1.41	5.15
		CO	1.19	4.33
		VOC	0.08	0.28
		SO <sub>2</sub>	0.01	0.03
		PM <sub>10</sub>	0.11	0.40
10A	Ingersoll-Rand Engine Model IR-KVS-8 1,330-hp (01/03)	NO <sub>x</sub>	59.31	216.49
		CO	3.49	12.73
		VOC	1.76	7.64
		SO <sub>2</sub>	0.33	1.20
		PM <sub>10</sub>	0.12	0.43
10B	Ingersoll-Rand Engine Model IR-KVS-8 1,330-hp (01/03)	NO <sub>x</sub>	59.31	216.49
		CO	3.49	12.73
		VOC	1.76	7.64
		SO <sub>2</sub>	0.33	1.20
		PM <sub>10</sub>	0.12	0.43
11	Glycol Reboiler 2.5 MMBtu/hr (01/03)	NO <sub>x</sub>	0.29	1.07
		CO	0.25	0.90
		VOC	0.02	0.06
		SO <sub>2</sub>	0.02	0.01
		PM <sub>10</sub>	0.02	0.08
14	Glycol Still Vent	Benzene	0.34	1.47
		VOC	9.42	41.33
21	Cooper-Bessemer Engine Model GMVH-12C2 3,105-hp (10/98)	NO <sub>x</sub>	21.89	59.91
		CO	32.83	89.87
		VOC	10.94	29.96
		SO <sub>2</sub>	0.26	1.14
		PM <sub>10</sub>	1.09	4.79

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
22	Cooper-Bessemer Engine Model GMVH-12C2 3,105-hp <b>(10/98)</b>	NO <sub>x</sub>	21.89	59.91
		CO	32.83	89.87
		VOC	10.94	29.96
		SO <sub>2</sub>	0.26	1.14
		PM <sub>10</sub>	1.09	4.79
23	Cooper-Bessemer Engine Model GMVH-12C2 3,105-hp <b>(10/98)</b>	NO <sub>x</sub>	21.89	59.91
		CO	32.83	89.87
		VOC	10.94	29.96
		SO <sub>2</sub>	0.26	1.14
		PM <sub>10</sub>	1.09	4.79
26	Hot Oil Heater 32.5 MMBtu/hr	NO <sub>x</sub>	1.95	8.54
		CO	3.21	11.73
		VOC	0.21	0.77
		SO <sub>2</sub>	0.02	0.08
		PM <sub>10</sub>	0.29	1.06
9	Flare <b>(01/03)</b>	NO <sub>x</sub>	4.37	--
		CO	37.20	--
		VOC	42.82	--
		SO <sub>2</sub>	50.48	--
		H <sub>2</sub> S	0.55	--
29	Flare <b>(01/03)</b>	NO <sub>x</sub>	4.37	--
		CO	37.20	--
		VOC	42.82	--
		SO <sub>2</sub>	50.48	--
		H <sub>2</sub> S	0.55	--
9 & 29	Flares Combined Annual Limits <b>(01/03)</b>	NO <sub>x</sub>	--	15.85
		CO	--	135.80
		VOC	--	156.31
		SO <sub>2</sub>	--	184.24
		H <sub>2</sub> S	--	2.00

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
30	HP TEG Firebox 3.0 MMBtu/hr (01/03)	NO <sub>x</sub>	0.29	1.29
		CO	0.25	1.08
		VOC	0.02	0.07
		SO <sub>2</sub>	0.01	0.01
		PM <sub>10</sub>	0.02	0.10
NGLFUG	Fugitives (4)	VOC	9.08	39.76
		H <sub>2</sub> S	0.04	0.20
CO2FUG	Fugitives (4) (10/98)	VOC	9.33	41.07
		H <sub>2</sub> S	1.27	5.67

- (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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code §101.1  
 NO<sub>x</sub> - total oxides of nitrogen  
 CO - carbon monoxide  
 SO<sub>2</sub> - sulfur dioxide  
 PM<sub>10</sub> - particulate matter (PM) 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.

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

Hrs/day\_\_\_\_ Days/week\_\_\_\_ Weeks/year\_\_\_\_ or Hrs/year 8,760

Dated January 31, 2003