

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 36726

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
RM EP01A	Shaft Furnace No. 1 (8) (Existing)	CO	16.0	70.08
		NO <sub>x</sub>	4.75	20.81
		PM <sub>10</sub>	5.57	24.40
		Pb	0.09	0.37
		Cu	0.50	2.19
		SO <sub>2</sub>	6.25	27.38
		VOC	1.84	8.06
RM EP01A	Shaft Furnaces Nos. 1 and 2 70.08 Stack (5)	CO		16.00
		NO <sub>x</sub>	5.84	25.59
		PM <sub>10</sub>	6.85	38.80
		Pb	0.09	0.37
		Cu	.62	2.69
		SO <sub>2</sub>	7.69	33.67
		VOC	2.26	9.91
RM EP03	Boiler Stack (6)	PM <sub>10</sub>	0.03	0.15
		NO <sub>x</sub>	0.45	1.98
		CO	0.38	1.67
		SO <sub>2</sub>	<0.01	0.01
		VOC	0.03	0.11
RM EP06	Wax Exhaust Blower (6)	VOC	<0.20	<0.10
OFEP02	Gas Generator No. 1 (6)	PM <sub>10</sub>	0.02	0.10
		NO <sub>x</sub>	0.30	1.32
		CO	0.25	1.11

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
		SO <sub>2</sub>	<0.01	0.01
		VOC	0.02	0.07

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
OFEP03	Gas Generator No. 2 (6)	PM <sub>10</sub>	0.03	0.14
		NO <sub>x</sub>	0.41	1.78
		CO	0.34	1.49
		SO <sub>2</sub>	<0.01	0.01
		VOC	0.02	0.10
OFEP05	PDOF-1 Emergency Diesel Generator (6)	PM <sub>10</sub>	0.73	0.32
		NO <sub>x</sub>	10.39	4.55
		CO	2.24	0.98
		SO <sub>2</sub>	0.68	0.30
		VOC	0.82	0.36
RMEP25	CCR-1 Emergency Diesel Generator (6)	PM <sub>10</sub>	0.73	0.32
		NO <sub>x</sub>	10.39	4.55
		CO	2.24	0.98
		SO <sub>2</sub>	0.68	0.30
		VOC	0.82	0.36
T18210 and T18370	Oily Wastewater Tanks (6)	VOC	<0.35	<0.15
T4551	Hot Rolling Lubricant Tank (6)	VOC	<0.35	<0.15
T4552	Hot Rolling Lubricant Mixing Tank (6)	VOC	<0.02	<0.1
T4558	Hot Rolling Lubricant Container (6)	VOC	<0.35	<0.15
DOC	Dorr Oliver Clarifier (6)	VOC	<0.35	<0.15
RTT	Refinery Transfer Tank (6)	VOC	<0.35	<0.15
DST1	Diesel Storage Tank	VOC	<0.1	<0.5

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	(SPC CRMB) (6)			
GST1	Gasoline Storage Tank (SPCC RMA) (6)	VOC	<0.1	<0.5
KST1	Kerosene Storage Tank (SPCC RMA) (6)	VOC	<0.1	<0.5
OPT	Oil Processing Tank (6)	VOC	<0.35	<0.15
UOSTT	Used Oil Storage Tank Trailer <0.1 (SPCC RMG) (6)	VOC		<0.02
UOT	Used Oil Tank (SPCC RMF) (6) 5.22	VOC		1.15
RM FUG	Rod Mill Building Fugitives 2.89 (4) (7)	PM <sub>10</sub>		7.37
		NO <sub>x</sub>	24.21	24.17
		CO	1.98	14.63
		SO <sub>2</sub>	1.41	0.7
		VOC	2.59	4.84

(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 30 Texas Administrative Code Section 101.1.

NO<sub>x</sub> - total oxides of nitrogen

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

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

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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.

CO - carbon monoxide  
Pb - lead  
Cu - copper

- (4) Fugitive emissions are an estimate only.
- (5) Total emissions from both Furnace Nos. 1 and 2, but only one of the furnaces operates at a time.
- (6) Operates per criteria of an exemption.
- (7) Includes emissions from processes that operate per criteria of an exemption.
- (8) These emission rates are applicable to the existing Shaft Furnace No. 1 and remain applicable until Shaft Furnace No. 2 is constructed and both Shaft Furnace Nos. 1 and 2 are exhausted to a common stack.

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

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760  
Hrs/year

Only one of the two shaft furnaces will operate at a time.

Dated\_\_\_\_\_