

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 9335

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)	<u>Emission Rates *</u>	
			lb/hr	TPY**
33	Scrubber Stack (WO-2)	VOC	5.32	19.30
		NO _x	0.60	2.63
		SO ₂	(5)	(5)
		PM	1.50	6.50
		CO	2.75	11.12
34	Scrubber Stack (ST-WO-2)	VOC	0.16	0.71
		NO _x	1.06	4.64
		SO ₂	(5)	(5)
		PM	0.93	4.14
		CO	0.51	2.23
		H ₂ S	0.001	0.005
35	Scrubber Stack	VOC	0.25	1.09
		NO _x	0.70	3.00
		SO ₂	(5)	(5)
		PM	0.75	3.30
		CO	0.37	1.62
		H ₂ S	0.18	0.77
36	Regeneration 3 and Calciner 3 Stack	VOC	0.25	1.07
		NO _x	1.32	3.85
		SO ₂	(5)	(5)
		PM ₁₀ /PM _{2.5}	1.33	5.83
		CO	0.62	1.09
		H ₂ S	0.18	0.77
33, 34, 35 and 36	Combined Caps (5)	SO ₂ 75.00	99.26	

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
35-1/ 35-2/ 35-3/ 35-4/ and 35-5	Burner Vents	VOC NO _x SO ₂ PM ₁₀ /PM _{2.5} CO	0.02 0.41 0.06 0.03 0.34	0.10 1.80 0.25 0.13 1.50
36-1/ 36-2/ 36-3/ 36-4/ and 36-5	Calciner 3 Burner Vents	VOC NO _x SO ₂ PM ₁₀ /PM _{2.5} CO	0.022 0.40 0.06 0.03 0.34	0.10 1.76 0.26 0.13 1.48
37	Regeneration 3 Baghouse	PM ₁₀ /PM _{2.5}	0.10	0.44
FUG	Fugitives (4)	VOC H ₂ S	0.11 0.15	0.44 0.64
FUG2	Fugitives (4)	VOC H ₂ S	0.11 0.16	0.49 0.70
FUG3	Fugitives (4)	VOC H ₂ S	0.11 0.15	0.44 0.64
RBH	Regeneration Baghouse	PM	0.02	0.11
RWS	Regeneration Wet Scrubber	PM	0.51	2.23

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

(2) Specific point source names. 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_x - total oxides of nitrogen

SO₂ - sulfur dioxide

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- 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.
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter.
- CO - carbon monoxide
- TNM - tertiary-nonylmercaptan
- H₂S - hydrogen sulfide

- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) Sulfur dioxide emission rates of 75 pounds per hour and 99.26 tons per year represent the emissions from EPNs 33, 34, 35 and 36 combined.

- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:
8,760 hours/year

- ** Compliance with annual emission limits is based on a rolling 12-month period.

Dated _

March 14, 2011