

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 76834

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**
F-1	Tank Car Venting (5)	H ₂ S	0.55	0.31
		PM/PM ₁₀	<0.01	<0.01
		SO ₂	<0.01	<0.01
P1-B	Barge Venting (5)	H ₂ S	<0.01	<0.01
		PM/PM ₁₀	<0.01	<0.01
		SO ₂	<0.01	<0.01
P-15	West Sump (5)	H ₂ S	1.69	1.72
		PM	0.48	0.49
		PM ₁₀	0.43	0.43
		SO ₂	0.15	0.15
P-7	Storage Tank No. 1 (5)	H ₂ S	1.02	2.09
		PM	0.40	2.04
		PM ₁₀	0.35	1.80
		SO ₂	0.12	0.64
P-8	Storage Tank No. 2 (5)	H ₂ S	1.02	2.09
		PM	0.48	2.04
		PM ₁₀	0.42	1.80
		SO ₂	0.15	0.64
P-9	Storage Tank No. 3 (5)	H ₂ S	1.02	2.09
		PM	0.40	2.04
		PM ₁₀	0.35	1.80
		SO ₂	0.12	0.64

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P-10	Storage Tank No. 4 (5)	H ₂ S	1.02	2.09
		PM	0.40	2.04
		PM ₁₀	0.35	1.80
		SO ₂	0.12	0.64
P-11	Storage Tank No. 5 (5)	H ₂ S	1.02	2.09
		PM	0.48	2.04
		PM ₁₀	0.42	1.80
		SO ₂	0.15	0.64
P-5SA	Ship Loading (5)	H ₂ S	2.56	0.67
		PM	0.73	0.38
		PM ₁₀	0.65	0.34
		SO ₂	0.23	0.12
P-1A	Barge Loading (5)	H ₂ S	0.59	0.21
		PM	0.17	0.12
		PM ₁₀	0.15	0.11
		SO ₂	0.05	0.04
P-5T	Tank Truck Loading (5)	H ₂ S	0.59	0.21
		PM	0.17	0.12
		PM ₁₀	0.15	0.11
		SO ₂	0.05	0.04
F-2	Sulfur Vattin/Handling (4 and 5)	H ₂ S	4.30	5.21
		PM	0.44	0.43
		PM ₁₀	0.21	0.20
P-12	Sulfur Melt Tank No. 1 (5)	H ₂ S	0.31	0.72
		PM	0.40	0.93
		PM ₁₀	0.35	0.82
		SO ₂	0.12	0.29
P-13	Sulfur Melt Tank No. 2 (5)	H ₂ S	0.31	0.72
		PM	0.40	0.93
		PM ₁₀	0.35	0.82
		SO ₂	0.12	0.29

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P-4	Boiler No. 1	PM ₁₀	0.34	1.51
		SO ₂	0.03	0.12
		VOC	0.25	1.09
		NO _x	1.39	6.07
		CO	3.80	16.66
P-5	Boiler No. 2	PM ₁₀	0.34	1.51
		SO ₂	0.03	0.12
		VOC	0.25	1.09
		NO _x	1.39	6.07
		CO	3.80	16.66
P-6	Boiler No. 3	PM ₁₀	0.34	1.51
		SO ₂	0.03	0.12
		VOC	0.25	1.09
		NO _x	1.39	6.07
		CO	3.80	16.66
PU-1	Prilling Unit 1 and 2 Scrubber (6)	H ₂ S	0.01	0.06
		PM ₁₀	<0.01	<0.01
		SO ₂	<0.01	0.02
PU-2	Prilling Unit 1 and 2 Cooling Tower (6)	PM ₁₀	0.23	1.01
PU-3	Sulfur Handling, Prilling Units 1,2,3, and 4 (8)	PM	0.87	0.25
		PM ₁₀	0.42	0.12
PU-1A	Prilling Unit 3 and 4 Scrubber (7)	H ₂ S	0.01	0.06
		PM ₁₀	<0.01	<0.01
		SO ₂	<0.01	0.02
PU-2A	Prilling Unit 3 and 4 Cooling Tower (7)	PM ₁₀	0.23	1.01

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.

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- (3) H₂S - hydrogen sulfide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
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 PM greater than 10 micron is emitted.
CO - carbon monoxide
- (4) Fugitive emissions are an estimate only.
- (5) PM and PM₁₀ are predominately sulfur.
- (6) Authorized by PBR Registration Number 81804
- (7) Unit No. 3 authorized by PBR Registration Number 87558. Unit No. 4 authorized by this permit. Emission rates are the combined amount from both Unit No. 3 and No. 4.
- (8) Combined material handling emissions for Pilling Units No. 1,2, 3, and 4.

* 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

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

2009

Dated May 18,