

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 19893

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
R1001H	Heater	NO _x		1.31	5.75
		PM	0.28	1.23	
		SO ₂	0.68	3.00	
		CO	0.65	2.83	
		VOC	0.05	0.21	
R1002H	Heater	NO _x		0.89	3.90
		PM		0.20	0.88
		SO ₂	0.47	2.06	
		CO	0.44	1.93	
		VOC	0.03	0.13	
R1003H	Reformer Heaters (5)	NO _x		6.76	29.59
		PM	1.31	5.76	
		SO ₂	3.21	14.06	
		CO	3.02	13.25	
		VOC	0.23	0.99	
Reformer	Fugitives (4)	VOC		3.78	16.53
M391	Flare	NO _x		0.10	3.64
		CO	0.56	18.70	
		VOC	4.63	20.25	
		H ₂ S	0.01	0.05	
		SO ₂	1.12	4.92	
		NH ₃	0.02	0.07	
R2001H	Charge Heater	NO _x		1.18	5.17
		PM	0.27	1.18	
		SO ₂	0.70	3.07	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		CO 0.63	2.76	
		VOC 0.04	0.18	
R2002H	Stripper Charge Heater	NO _x	0.95	4.16
		PM 0.21	0.92	
		SO ₂ 0.57	2.50	
		CO 0.51	2.23	
		VOC 0.04	0.18	
Diesel HDS	Fugitives (4)	VOC	2.81	12.29
		H ₂ S 0.39	1.69	
		NH ₃ 0.90	3.93	
NaSH Unit	Fugitives (4)	VOC	<0.01	<0.01
		H ₂ S 0.08	0.36	
		NH ₃ 0.03	0.15	

(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) NO_x - total oxides of nitrogen

PM - particulate matter

SO₂ - sulfur dioxide

CO - carbon monoxide

VOC - volatile organic compounds as defined in General Rule 101.1

H₂S - hydrogen sulfide

NH₃ - ammonia

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

(5) This EPN consists of two adjacent stacks sharing total emissions from Reformer Heaters R1003H, R1004H, and R1005H. Allowable emission rates are limits for total emissions from both stacks.

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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> <u>lb/hr</u> <u>TPY</u>
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_____Hrs/day _____Days/week _____Weeks/year or 8,760 Hrs/year

Dated_____