

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 20137

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>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
INC-1	Tail Gas Incinerator	SO ₂	74.50	326.00
		NO _x	1.90	8.32
		CO	0.45	1.97
		H ₂ S	0.08	0.33
SSV	Sulfur Storage Vent	H ₂ S	0.03	0.13
GE-7	Generator Engine	NO _x	1.80	7.87
		CO	2.25	9.84
		VOC	0.45	1.97
GE-8	Generator Engine	NO _x	1.80	7.87
		CO	2.25	9.84
		VOC	0.45	1.97
TPF-1	Fugitives (4)	VOC	0.01	0.04
AGF1	Acid Gas Flare Pilot	SO ₂	<0.01	<0.01
		NO _x	0.01	0.04
		CO	0.10	0.44
NEW1	1,200 hp Engine	SO ₂	0.02	0.11
		NO _x	5.29	23.20
		CO	2.64	11.60
		VOC	1.32	5.79
NEW2	1,200 hp Engine	SO ₂	0.02	0.11

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Emission *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
NEW3	1,200 hp Engine	NO _x	5.29	23.20
		CO	2.64	11.60
		VOC	1.32	5.79
		SO ₂	0.02	0.11
		NO _x	5.29	23.20
		CO	2.64	11.60
		VOC	1.32	5.79
NRUFUG	NRU Project Equipment Fugitives (4) <0.01		H ₂ S	<0.01
		VOC	0.30	1.30
AMINEREB	Amine Reboiler	SO ₂	0.02	0.08
		NO _x	0.59	2.58
		CO	0.49	2.16
		VOC	0.03	0.14
		PM	0.04	0.20
SIEVEHTR	Mole Sieve Regeneration Heater	SO ₂	0.01	0.03
		NO _x	0.20	0.86
		CO	0.19	0.72
		VOC	0.01	0.05
		PM	0.01	0.07
CM5	Existing Engine	SO ₂	0.02	0.07
		NO _x	2.91	12.70
		CO	1.45	6.37
		VOC	0.73	3.18
CM16	Existing Engine	SO ₂	0.03	0.11
		NO _x	4.41	19.30
		CO	2.20	9.65
		VOC	1.10	4.82

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
F2	Emergency Flare Pilot	SO ₂	<0.01	<0.01
		NO _x	0.01	0.04
		CO	0.05	0.22

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- (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)

SO ₂	-	sulfur dioxide
NO _x	-	total oxides of nitrogen
CO	-	carbon monoxide
H ₂ S	-	hydrogen sulfide
VOC	-	volatile organic compounds as defined in General Rule 101.1
PM	-	total particulate matter suspended in the atmosphere.
- (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:

8,760 Hrs/year

Dated _____