

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 6455

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	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
1a	Gas Turbine No. 1	VOC	<0.01	0.03
		NO _x	3.27	12.33
		CO	13.20	49.84
		SO ₂	0.01	0.04
1b	Gas Turbine No. 2	VOC	<0.01	0.03
		NO _x	3.27	12.33
		CO	13.20	49.84
		SO ₂	0.01	0.04
1c	Gas Turbine No. 3	VOC	<0.01	0.03
		NO _x	3.27	12.33
		CO	13.20	49.84
		SO ₂	0.01	0.04
2a	Boiler No. 1	VOC	0.10	0.28
		NO _x	4.82	14.07
		CO	1.21	3.52
		SO ₂	0.02	0.06
		PM ₁₀	0.47	1.38
2b	Boiler No. 2	VOC	0.10	0.28
		NO _x	4.82	14.07
		CO	1.21	3.52
		SO ₂	0.02	0.06
		PM ₁₀	0.47	1.38
2c	Boiler No. 3	VOC	0.10	0.28
		NO _x	4.82	14.07

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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>
		CO	1.21	3.52
		SO ₂	0.02	0.06
		PM ₁₀	0.47	1.38
3a	Compressor No. 1	VOC	1.73	6.89
		NO _x	13.20	52.56
		CO	1.82	7.25
		SO ₂	<0.01	0.02
3b	Compressor No. 2	VOC	1.73	6.89
		NO _x	13.20	52.56
		CO	1.82	7.25
		SO ₂	<0.01	0.02
4	Regeneration Gas Heater No. 1 0.08	VOC		0.03
		NO _x	0.50	1.47
		CO	0.11	0.31
		SO ₂	<0.01	0.01
		PM ₁₀	0.06	0.18
5	Regeneration Gas Heater	VOC	0.02	0.07
		NO _x	0.44	1.29
		CO	0.09	0.27
		SO ₂	<0.01	0.01
		PM ₁₀	0.05	0.16
6	Plant Fugitive Emissions(4) 20.38	VOC		4.65
7	Deoxygenation Heater(5)	VOC	<0.01	0.02
		NO _x	0.10	0.43
		CO	0.02	0.09
		SO ₂	<0.01	<0.01
		PM ₁₀	0.01	0.05

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
8	Emergency Generator Engine(5) 0.01	VOC		0.53
		NO _x	16.38	0.43
		CO	4.28	0.11
		SO ₂	1.53	0.04
		PM ₁₀	1.64	0.04

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			lb/hr	TPY
9	Emergency Firewater(5) Pump Engine	VOC	0.55	0.01
		NO _x	6.79	0.09
		CO	1.46	0.02
		SO ₂	0.45	0.01
		PM ₁₀	0.48	<0.01
10	Cryogenic Unit Cooling Water Tower	VOC	0.72	3.15
11	Amine System Flare	VOC	0.08	0.34
		NO _x	0.03	0.15
		CO	0.29	1.25

(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 General Rule 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM₁₀ - particulate matter

CO - carbon monoxide

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

(5) These emissions were previously standard exempted.

* 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

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>

Dated _____