

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 25956

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
EPN-1, 5 1.60	Solvent Exhaust Vent (4) (Two Rotor Concentrator/ Thermal Oxidizers)	VOC	91.86	41.23
		non-VOC		3.78
		CO	5.60	24.52
		NO _x	3.30	14.46
		SO ₂	0.10	0.44
		PM	0.50	2.20
EPN-2, 6 4.87 6.02	Acid Exhaust Vents (5) (Per EPN, Three In-Line Water Scrubbers and One Backup Water Scrubber)	Acids	1.64	7.21
		Bases		1.11
		Inorganic Fluorides		1.37
		Halocarbons	6.41	28.09
		VOC	0.08	0.36
EPN-3, 7 1.52	Caustic Exhaust Vents (6) (Per EPN, One In-Line Water Scrubber And One Backup Water Scrubber)	Acids		0.35
		Bases	0.41	1.80
		VOC	0.26	1.14
EPN-4, 8	Boiler Vents (7) (Uncontrolled)	NO _x	15.48	26.84
		CO	6.14	15.24
		SO ₂	45.28	16.92
		VOC	2.64	6.66
		non-VOC	1.40	6.14

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		PM	2.20	4.34
EPN-101, 102		Emergency Generators (8)	NO _x	
82.90	8.28			
	(Uncontrolled)	CO	17.90	1.80
		SO ₂	5.52	0.56
		VOC	6.74	0.68
		PM	5.90	0.60
EPN-103	Fire Pump (9)	NO _x	10.19	0.25
	(Uncontrolled)	CO	2.20	0.06
		SO ₂	0.68	0.02
		VOC	0.83	0.02
		PM	0.73	0.02

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name.
- (3) VOC - volatile organic compounds as defined in General Rule 101.1
 NO_x - nitrogen oxides
 CO - carbon monoxide
 SO₂ - sulfur dioxide
 PM - particulate matter
- (4) The hourly emission rates reflect uncontrolled emissions while the rotor concentrator/oxidizer systems are off-line. The annual emission rates reflect 168 hours per year of uncontrolled emissions and 8,592 hours per year of controlled emissions. These emission rates are a sum of the two rotor concentrator/oxidizer systems.
- (5) These emission rates are a sum of these six scrubbers. The emission rate for inorganic fluorides does not include hydrofluoric acid. The emission rate for acids includes hydrofluoric acid.
- (6) These emission rates are a sum of these two scrubbers.
- (7) These emission rates are a sum of the two boilers.
 The hourly emissions are based on usage of No. 2 fuel oil.
 The annual emissions are based on 8,030 hours of natural gas usage and

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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>

730 hours of No. 2 fuel oil usage.

(8) These emission rates are a sum of the two generators.

The hourly and annual emissions are based on No. 2 fuel oil usage (200 hours annual usage).

(9) The hourly and annual emissions are based on No. 2 fuel oil usage (50 hours annual usage).

* These allowable emission rates do not represent the potential increases allowed under Special Condition No. 4.

Dated _____