

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 25956

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY (4)
EPN-1	Solvent Exhaust Vent (5) (One Rotor Concentrator/ Thermal Oxidizer)	VOC	47.38	20.99
		ES	1.89	2.84
		CO	2.80	12.26
		NO _x	1.65	7.23
		SO ₂	0.05	0.22
		PM	0.25	1.10
EPN-2	Acid Exhaust Vent (6) (Three In-Line Water Scrubbers and One Backup Water Scrubber)	Acids	0.91	3.65
		Bases	0.56	2.46
		Inorganic Fluorides	0.73	3.02
		Halocarbons	3.21	14.07
		VOC	0.04	0.18
EPN-3	Caustic Exhaust Vent (One In-Line Water Scrubber and One Backup Water Scrubber)	Acids	0.18	0.77
		Bases	0.29	0.92
		VOC	0.17	0.57
EPN-4	Boiler Vent (7) (Three 21 MMBtu/hr Boilers) (Uncontrolled)	NO _x	7.74	13.42
		CO	3.07	7.62
		SO ₂	22.64	8.46
		VOC	1.32	3.33
		ES	0.70	3.07
		PM	1.10	2.17
EPN-5	Photoresist Stripping Unit (8) (Uncontrolled)	VOC	1.20	5.25
		ES	1.25	5.49
EPN-101	Emergency Generator (Uncontrolled)	NO _x	41.45	4.15
		CO	8.95	0.90
		SO ₂	2.76	0.28
		VOC	3.37	0.34
		PM	2.95	0.30

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY (4)
EPN-103	Fire Water Pump (Uncontrolled)	NO _x	10.19	0.25
		CO	2.20	0.06
		SO ₂	0.68	0.02
		VOC	0.83	0.02
		PM	0.73	0.02
EPN-1, 2, 3, and 5	Various	Individual HAPs		<10.00
		All HAPs		<25.00

(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 Title 30 Texas Administrative Code § 101.1 (30 TAC § 101.1)

ES - exempt solvent as defined in 30 TAC § 101.1

HAP - any air contaminant (pollutant) listed in § 112(b) of the Federal Clean Air Act or 40 CFR Part 63, Subpart C.

NO_x - nitrogen oxides

CO - carbon monoxide

SO₂ - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including particulate matter equal to or less than 10 microns in diameter.

(4) Annual emission rates are based on a rolling consecutive 12-month period.

(5) Hourly emission rates reflect uncontrolled emissions while the rotor concentrator/oxidizer system is off-line. Annual emission rates reflect 168 hours per year of uncontrolled emissions and 8,592 hours per year of controlled emissions.

(6) Emission rates are a sum of these three scrubbers.

Emission rate for inorganic fluorides does not include hydrofluoric acid.

Emission rate for acids includes hydrofluoric acid.

(7) Hourly emissions are based on usage of No. 2 fuel oil.

Annual emissions are based on 8,030 hours of natural gas usage and 730 hours of No. 2 fuel oil usage.

(8) Emission rates for EPN-5 are based on chlorinated solvent bath emissions only.

Non-chlorinated solvent bath emissions are routed to EPN-1.

* Allowable emission rates do not include potential increases allowed under Special Condition No. 4.

Dated October 21, 2004