

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 6995

This table lists the maximum allowable emission rates for all sources of air contaminants covered by this permit.

AIR CONTAMINANTS DATA

Air Contaminant		Emission		Source	
		<u>Emission Rates **</u>			
Name (1)	Point No. (2)	Name (3)		<u>lb/hr</u>	<u>TPY</u>

PROCESS EMISSIONS

VOC	1VE-1; 1SE-1 through 1SE-5; 95.6	RCTO; Scrubbers		22.52
	2VE-1; 2SE-1 through 2SE-9; 4VE-1; 4SE-1 through 4SE-6; 4SEA-1 and 2; 4GE-1 through 4GE-4	and General Exhausts		
EVOC	1VE-1; 1SE-1 through 1SE-5; 65.0	RCTO; Scrubbers		14.84
	2VE-1; 2SE-1 through 2SE-9; 4VE-1; 4SE-1 through 4SE-6; 4SEA-1 and 2; 4GE-1 through 4GE-4	and General Exhausts		
Acids	1SE-1 through 1SE-5; 2SE-1 through 2SE-9; 4SE-1 through 4SE-6	Scrubbers	3.95	17.5
Bases	1SE-1 through 1SE-5; 2SE-1 through 2SE-9; 4SE-1 through 4SE-6; 4SEA-1 and 2	Scrubbers	18.51	81.3
PM	1SE-1 through 1SE-5; 2SE-1 through 2SE-9; 4SE-1 through 4SE-6; 4SEA-1 and 2	Scrubbers	4.20	18.4
HAPs	1VE-1; 1SE-1 through 1SE-5; RCTO; Scrubbers and <10 tpy individual			

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Air Contaminant	Emission	Source	Emission Rates	
Name (1)	Point No. (2)	Name (3)	lb/hr	TPY
	2VE-1; 2SE-1 through 2SE-9; 4VE-1; 4SE-1 through 4SE-6; 4SEA-1 and 2; 4GE-1 through 4GE-4	General Exhausts <25 tpy aggregate		

COMBUSTION EMISSIONS (5,6)

NonMethane VOC	1VE-1; 1BL-1 and 2; 1EG	RCTO; Boilers;	2.91	1.8
NO _x	through 1EG-4; 2VE-1;	Emergency Generators	40.1	47.25
CO	2BL-1 and 2; 2EG-1 through	Fire Pumps (4)	9.5	10.87
SO ₂	2EG-3; FP-1 and 2; 4VE-1;		5.5	3.76
PM	4BL-1 through 4BL-3; 4EG-1		3.9	3.15
	and 2			

(1) VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1

EVOC - exempted VOC as defined in 30 Texas Administrative Code Section 101.1

PM - particulate matter, suspended in the atmosphere, including PM₁₀.

PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

NO_x - total oxides of nitrogen

CO - carbon monoxide

SO₂ - sulfur dioxide

HAP_s - hazardous air pollutants as listed in Title 40 Code of Federal Regulations Part 63, Subpart C.

(2) Emission point identification - either specific equipment designation or emission point number from plot plan.

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Air Contaminant Name (1)	Emission Point No. (2)	Source Name (3)	Emission Rates	
			lb/hr	TPY

- (3) Specific point source name.
RCTO - rotary concentrator thermal oxidizer(s)
- (4) Combustion sources include de minimis amounts of emissions from scrubbers.
- (5) Hourly emission rates for emergency generators and fire pumps reflect the combined total maximum hourly rate for all units. Annual rates are the combined total for all units assuming a maximum of 520 hours per year.
- (6) Combustion emissions do not reflect emissions from PI-8 registered combustion sources (4BL-1 through 3; 4EG-1 and 2)

* Any HAP emission will not exceed 10 tpy per contaminant or 25 tpy aggregate for the entire site. Emissions of HAPs will also be limited by the air contaminant category emission rates listed in the above table.

** Pound per hour emission rates reflect normal operating conditions. Process emission may exceed these pound per hour limitations during periods of maintenance/upset. (1/2000)

Dated _____