

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 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	Emission Rates **	
Name (1)	Point No. (2)	Name (3)	lb/hr	TPY
<u>PROCESS EMISSIONS</u>				
VOC	1VE-1; 1SE-1 through 1SE-5; 2VE-1; 2SE-1 through 2SE-9; 4VE-1; 4SE-1 through 4SE-6; 4SEA-1 and 2; 4GE-1 through 4GE-4; 4T-10; 4T-11; RSE-1 and 2	RCTO; Scrubbers and General Exhausts	22.64	96.2
EVOC	1VE-1; 1SE-1 through 1SE-5; 2VE-1; 2SE-1 through 2SE-9; 4VE-1; 4SE-1 through 4SE-6; 4SEA-1 and 2; 4GE-1 through 4GE-4; RSE-1 and 2	RCTO; Scrubbers and General Exhausts	14.84	65.0
Acids	1SE-1 through 1SE-5; 2SE-1 through 2SE-9; 4SE-1 through 4SE-6; RSE-1 and 2	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; RSE-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; RSE-1 and 2	Scrubbers	4.20	18.4

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			lb/hr	TPY
HAPs	1VE-1; 1SE-1 through 1SE-5; 2VE-1; 2SE-1 through 2SE-9; 4VE-1; 4SE-1 through 4SE-6; 4SEA-1 and 2; 4GE-1 through 4GE-4; RSE-1 and 2	RCTO; Scrubbers and General Exhausts	<10 tpy individual <25 tpy aggregate	

COMBUSTION EMISSIONS (5)

NonMethane VOC	1VE-1; 1BL-1 and 2; 1EG	RCTO; Boilers;	4.10	2.8
NO _x	through 1EG-4; 2VE-1;	Emergency Generators	97.54	83.6
CO	2BL-1 and 2; 2EG-1 through	and Fire Pumps (4)	31.39	43.51
SO ₂	2EG-3; FP-1 and 2; 4VE-1;		35.58	10.9
PM	4BL-1 through 4BL-3; 4EG-1 and 2; 4BL1-3; 4EG-1 and 2		5.56	7.6

- (1) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 EVOC - exempted VOC as defined in 30 TAC § 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.
- (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.

* 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

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exceed these pound per hour limitations during periods of maintenance/upset.

Dated January 14, 2003