

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 48653

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**
97	Gas Turbine (Routine Operations)	VOC	67.7	234.60
		NO _x	97.46	418.62
		CO	382.3	1,599.92
		PM ₁₀	2.0	8.17
		SO ₂	7.80	3.30
97	Gas Turbine (MSS) (5) (7)	VOC	67.7	1.38
		NO _x	97.46	2.34
		CO	382.3	8.94
		PM ₁₀	2.0	0.09
		SO ₂	7.80	0.04
97	Gas Turbine (MSS) (5) (8)	VOC	67.7	3.46
		NO _x	97.46	5.84
		CO	382.3	22.34
		PM ₁₀	2.0	0.23
		SO ₂	7.80	0.09
99	Mono Column Vent	VOC	0.04	0.20
		CO	0.04	0.18
100	Concentrator Column Vent	VOC	0.01	0.04
		CO	0.03	0.14
101	Condensate Vessel Vent	VOC	0.94	4.12
118	Diglycol Column Vent	VOC	0.02	0.08
		CO	0.13	0.58
334	Process Analyzer Vents	VOC	0.15	0.63

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528	Block 7 and 8 Process Sewer	VOC	0.11	0.49
1028	Glycol Analyzer Vents	VOC	0.01	0.01
1042	CO ₂ Stripper Calandria Vent	VOC	0.03	0.10
1176	Liquid Coolant Heating System	VOC	0.20	0.05
		NO _x	4.90	1.23
		CO	4.10	1.03
		PM ₁₀	0.37	0.09
		SO ₂	1.42	0.04
1229	Fugitive Emissions (4)	VOC	9.59	42.00
SD108	Large Flare Tip (MSS) (6)	VOC	62.3	1.47
		NO _x	10.59	0.53
		CO	72.37	3.9
		SO ₂	0.83	0.02
		HCl	7.06	0.02
SD108A	Small Flare Tip (Routine Operations)	VOC	0.03	0.13
		NO _x	0.07	0.33
		CO	0.64	2.79
		SO ₂	0.04	0.02
SD108A	Small Flare Tip (MSS) (5) (6)	VOC	21.3	0.02
		NO _x	1.62	0.01
		CO	13.92	0.01
SDMG513	Liquid Coolant Emissions	VOC	0.28	0.01
SDMG514	Liquid Coolant Surge Tank	VOC	0.96	4.20
SdT9	Tank 2300	VOC	0.01	0.01
SdT10	Tank 2301	VOC	0.01	0.01
SdT12	Tank 2310	VOC	0.15	0.01

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SDT13	Tank 2311	VOC	0.01	0.01
SDT15	Tank 2320	VOC	0.01	0.01
SDT16	Tank 2321	VOC	0.01	0.01
SDT17	Tank 2322	VOC	0.01	0.01
SDT18	Tank 2323	VOC	0.01	0.01
SDT19	Tank 2330	VOC	0.01	0.01
SDT34	Tank 515	VOC	0.15	0.01

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- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - NO_x - total oxides of nitrogen
 - CO - carbon monoxide
 - PM₁₀ - particulate matter equal to or less than 10 microns in diameter
 - SO₂ - sulfur dioxide
 - HCl - hydrogen chloride
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) The annual allowables shown for this EPN are in addition to the annual allowables shown above for routine emissions from this EPN.
- (6) The emissions from this EPN are for the planned start-up and shutdown activities listed in Special Condition No. 2.
- (7) These allowables for EPN 97 represent emissions during start-ups and shutdowns of the EO Reaction Process or Reactors.
- (8) These allowables for EPN 97 represent emissions during break-in of new reactor catalyst. These emissions are in addition to the emissions from EPN 97 for start-up and shutdown of the EO Reaction Process or Reactors described by Footnote 7.

* 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

** Compliance with annual emission limits is based on a rolling 12-month period.

Dated August 8, 2008