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, sources, and related activities. 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	
			lbs/hour	TPY (4)
97	Gas Turbine - allowable emission rates for both routine and MSS (6) operation	VOC	67.7	-
		NO_x	97.46	-
		CO	382.3	-
		PM_{10}	2.0	-
		SO_2	7.8	-
97	Gas Turbine - allowable emission rates for routine operation	VOC	-	234.60
		NO_x	-	418.62
		CO	-	1,599.92
		PM_{10}	-	8.17
		SO_2	-	3.30
97	Gas Turbine - allowable emission rates during startup and shutdown of the EO Reaction Process (6)	VOC	-	1.38
		NO_x	-	2.34
		CO	-	8.94
		PM_{10}	-	0.09
		SO_2	-	0.04
97	Gas Turbine - allowable emission rates during break in of new reactor catalyst (6)	VOC	-	3.46
		NO_x	-	5.84
		CO	-	22.34
		PM_{10}	-	0.23
		SO_2	-	0.09

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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
335	Analyzer Vents	VOC	<0.01	<0.01
528	Block 7 and 8 Process Sewer	VOC	0.03	0.12
1028	Glycol Analyzer Vents	VOC	0.01	0.01
1042	CO_2 Stripper Calandria Vent	VOC	0.03	0.12
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	Process Fugitives (5)	VOC	6.09	26.68
SD108	Large Flare Tip - routine operations	VOC	0.68	0.37
		NO_x	2.66	1.46
		CO	13.57	7.43
		SO_2	0.59	0.06

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SD108	Large Flare Tip - MSS	VOC	62.30	1.47
		NO_x	48.67	2.34
		CO	8.99	0.69
		SO_2	45.83	3.5
		HCl	0.41	0.02
SD108A	Small Flare Tip - routine operations	VOC	0.93	4.06
		NO_x	0.17	0.75
		CO	1.46	6.40
		SO_2	0.03	0.03
		HCl	<0.01	<0.01
SD108A	Small Flare Tip - MSS	VOC	21.30	<0.01
		NO_x	1.63	<0.01
		CO	13.97	<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	0.08	0.01
SDT10	Tank 2301	VOC	0.01	0.01
SDT12	Tank 2310	VOC	0.15	0.01
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	0.02

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SDT35	Tank 516	VOC	0.15	0.02
PV-MSS2	Process Vessel MSS	VOC	<0.01	<0.01
PMP-MSS2	Pump Cleaning MSS	VOC	<0.01	<0.01

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use 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
PM_{10} - total particulate matter equal to or less than 10 microns in diameter
SO_2 - sulfur dioxide
HCl - hydrogen chloride
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: TBD