Emission Sources - Maximum Allowable Emission Rates

Permit Number 37884

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)
OC4BH1	Area 800 Filter Stack	PM_{10}	4.05	0.08
		$PM_{2.5}$	4.26	0.08
		PM	4.26	0.08
		CH_2Cl_2	0.10	0.43
		VOC (10)	0.10	0.43
OC4CLCY911/ OC4CLCY912/ OC4CLCY913	Area 900 Cyclone Separator Vents	PM_{10}	0.05	0.11
		$PM_{2.5}$	0.05	0.11
		PM	0.05	0.11
		CH_2Cl_2	0.10	0.43
		VOC (10)	0.10	0.43
OC4CT600	Cooling Tower	C_3H_6	0.66	2.89
		C_2H_4 (6)	0.17	0.72
		VOC (10)	1.66	7.22
OC4F600	Polypropylene Flare F-600	VOC (10)	9.90	1.56
		NO_x	1.95	4.14
		CO	16.75	35.53
		SO_2	0.22	0.14
		C_3H_6 (7)	4.83	0.12
		C_2H_4 (7)	0.49	0.03
		C_2H_6 (7)	0.68	0.04
OC4FU01	Fugitive Emissions (5)	VOC (10)	1.72	7.56
		C_3H_6 (7)	1.14	5.01
		C_2H_4 (7)	0.49	2.16

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		C_2H_6 (7)	0.01	0.01
OC4FVSD1, OC4PT901A, OC4PT901B, OC4PT902A, OC4PT902B, OC4LR1	Spin Dryer SD-1, Blender D-901Aa, Blender D-901B, Blender D-902A, Blender D-902B, Railcar Loading	VOC (10)	5.04	6.83
		Propylene	0.67	2.33
		Acetone	3.08	2.93
		Ethane	0.03	0.04
		CH2Cl2	0.10	0.43
OC4LR607	Waste Mineral Oil Loading	VOC	0.02	0.01
OC4PP0803	Pellet Silo	C_3H_6	0.01	0.01
		VOC (10)	0.01	0.01
OC4RT704A/OC4RT704B	CO Removal Tower	C_2H_4	0.01	0.01
		VOC (10)	0.01	0.01
OC4SC502	Compressor 502	C_3H_6	0.70	0.72
		VOC (10)	0.70	0.72
OC4SC801	Pneumatic Conveyance System, C-801	C_3H_6	0.01	0.01
		CH_2Cl_2	0.10	0.43
		VOC (10)	0.11	0.44
OC4STD810	Peroxide Storage	VOC	0.03	0.01
OC6F1000 and OC6FS1	LHC Ground Flare F-1000 and LHC8 Elevated Flare FS-1 (9)	VOC (10)	42.71	25.41
		NO_x	6.00	3.93
		CO	31.13	21.04
		SO_2	0.08	0.02
		Ethylene (7)	2.19	.54
		Propylene (7)	38.42	20.33
Routine Maintenance, Start-up, and shutdown emissions				
OC6F1000 and OC6FS1	LHC Ground Flare F-1000 and LHC8 Elevated Flare FS-1 (9)	VOC(10)	1509.4	50.35
		NO_x	271.61	8.74
		CO	1384.00	44.55
		SO_2	15.21	0.06
		Ethylene (7)	44.00	1.82

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		Propylene (7)	1459.54	48.36
OC4F600	Polypropylene Flare (8)	VOC	2.44	0.02
		NOX	1.56	0.17
		CO	13.37	1.48
		SO2	0.26	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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
HRVOC - highly reactive volatile organic compounds as defined in 30 TAC § 115.10
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
(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.
(6) Traces of other VOC and/or ethane may be present in this stream.
(7) These values are not a part of the total VOC value for this emission point number.
(8) This VOC includes ethylene, propylene, and ethane as well as other VOC compounds.
(9) When Flare F-1000 is down for planned maintenance, vents are routed to Flare FS-1.
(10) Total VOCs

Date: TBD