Permit Numbers 107764 and PSDTX1340

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.	Source Name (2)	Air Contaminant Name (3)	Emission	Rates
(1)			lbs/hour	TPY (4)
B-01001	Reformer	NOx	15.52	59.42
		NOx (6)	62.08	-
		NH3	5.71	21.57
		СО	93.84	177.40
		voc	8.37	10.16
		SO2	1.52	5.74
		PM	11.56	43.72
		PM10	11.56	43.72
		PM2.5	8.67	32.79
		PM2.5 (7)	11.56	-
B-14001	Auxiliary Boiler	NOx	9.50	31.01
		NOx (6)	38.00	-
		NH3	3.64	11.71
		со	59.96	96.44
		voc	5.12	14.00
		SO2	0.53	1.71
		РМ	7.08	22.77
		PM10	7.08	22.77
		PM2.5	5.31	17.08

B-01001/B-14001A	Reformer/Auxiliary Boiler	NOx	-	67.72
H-REGEN	Regeneration Heater	NOx	1.60	3.92
		со	2.82	3.45
		voc	0.24	0.59
		SO2	0.02	0.06
		РМ	0.33	0.81
		PM10	0.33	0.81
		PM2.5	0.33	0.81
H-RXH	Reactor Heaters	NOx	4.37	16.31
		со	7.69	14.32
		VOC	0.66	2.44
		SO2	0.07	0.25
		РМ	0.91	3.38
		PM10	0.91	3.38
		PM2.5	0.91	3.38
H-HGT	Heavy Gasoline Heater Treater	NOx	0.27	1.08
	Trodice Trodice	со	0.48	0.95
		VOC	0.04	0.16
		SO2	0.01	0.02
		РМ	0.06	0.22
		PM10	0.06	0.22
		PM2.5	0.06	0.22
S-10001	MeOH Flare	NOx	0.35	1.53
		со	2.20	9.62
		VOC	0.34	1.50

Emission Sources - Maximum Allowable Emission Rates

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		МеОН	0.01	0.01
		SO2	0.01	0.05
S-10001 MSS	MeOH Flare MSS	NOx	425.11	7.30
		со	3644.98	61.79
		voc	242.44	1.36
		MeOH	242.44	0.84
		SO2	12.55	0.22
TK-SLOP	MeOH Storage Tank	voc	8.47	0.12
		MeOH	8.47	0.12
D-04001	MeOH Water Scrubber 1	VOC	7.24	1.65
	Cordober 1	MeOH	7.24	1.65
D-04002	MeOH Water Scrubber 2	VOC	1.31	1.38
	Cordober 2	MeOH	1.31	1.38
VCU-1	MtG Loading VCU	NOx	1.06	0.88
		со	0.89	0.74
		VOC	5.33	4.47
		SO2	0.01	0.01
		PM	0.08	0.07
		PM10	0.08	0.07
		PM2.5	0.08	0.07
D-04002/VCU-1	Loading Cap	VOC	-	4.47
TK-OS1	Off-Spec Gasoline Storage Tank	voc	1.94	3.19
TK-St1A	Gasoline Run-down Storage Tank 1	voc	1.96	2.73
TK-ST1B	Gasoline Run-down Storage Tank 1	voc	1.96	2.73
TK-SLOP1	MeOH Water Slop Storage Tank	voc	8.47	0.12

		МеОН	8.47	0.12
TK-SLOP2	Gasoline Slop Storage Tank	voc	55.70	1.08
FUG-MeOH	MeOH Fugitives (5)	voc	3.07	13.45
		МеОН	3.07	13.45
		NH3	0.01	0.01
FUG-MTG	MtG Fugitives (5)	voc	2.77	12.13
		NH3	0.01	0.01
T-06001	MeOH Cooling Tower	voc	7.54	3.30
		МеОН	7.54	3.30
		PM	37.70	82.57
		PM10	0.58	1.28
		PM2.5	0.01	0.03
V-CATREGEN	Catalyst Regeneration Vent	со	84.16	70.73
	Trogonoration vont	PM	0.01	0.01
		PM10	0.01	0.01
		PM2.5	0.01	0.01
TEMP-MSS	Controlled Tank MSS Emissions	NOx	3.55	0.01
		со	7.09	0.01
		voc	52.75	0.07
		МеОН	52.75	0.07
		SO2	0.02	0.01
		РМ	0.19	0.01
		PM10	0.19	0.01
		PM2.5	0.19	0.01
FUG-MSS	Atmosphere MSS Emissions	voc	167.93	0.50

		МеОН	102.03	0.20
OWS-WWTP	Wastewater Treatment Plant Oil	VOC	0.31	0.73
	Water Separator	МеОН	0.01	0.01
FUG-WWTP	Wastewater Treatment Plant	VOC	15.26	22.71
	Fugitives	МеОН	4.25	1.74

- (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

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as

represented

PM₁₀ - 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

MeOH - methanol

- (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) The emission limit applies only during startup as defined in Special Condition 9.
- (7) This emission limit applies only during cold start-up of the methanol unit for a maximum of 96 hours per year.

Date:	May 16, 2014