

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 123216 & PSDTX1438

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)
MEOHFUG	Methanol Unit Fugitives (5)	CO	1.76	7.71
		VOC	1.05	4.61
		NH <sub>3</sub>	0.08	0.34
		MeOH	0.89	3.90
MEOHFLR	Methanol Unit Flare	VOC	17.71	2.48
		NO <sub>x</sub>	138.25	20.91
		CO	2373.04	353.90
		SO <sub>2</sub>	0.21	0.38
		MeOH	9.18	1.06
MEOHANALZ	Methanol Unit Analyzer Vent	VOC	0.20	0.89
		CO	1.48	6.49
		MeOH	0.19	0.83
REFORM	Reformer Stack	VOC	34.96	26.27
		NO <sub>x</sub>	29.76	27.40
		CO	166.22	166.84
		SO <sub>2</sub>	2.28	9.14
		PM	1.43	5.74
		PM <sub>10</sub>	1.43	5.74
		PM <sub>2.5</sub>	1.43	5.74
		NH <sub>3</sub>	5.05	20.29
		MeOH	17.34	13.03

## Emission Sources - Maximum Allowable Emission Rates

MEOHCT	Methanol Unit Cooling Tower	VOC	0.83	3.64
		PM	1.46	6.40
		PM <sub>10</sub>	0.70	3.07
		PM <sub>2.5</sub>	<0.01	0.01
MEOHTK1	IFR Methanol Tank No. 1	MeOH	1.34	—
MEOHTK2	IFR Methanol Tank No. 2	MeOH	1.34	—
TKCAP1	IFR Tank Cap No. 1	MeOH	—	6.86
MEOHTK03	IFR Methanol Tank No. 3	MeOH	0.87	—
MEOHTK04	IFR Methanol Tank No. 4	MeOH	0.87	—
TKCAP2	IFR Tank Cap No. 2	MeOH	—	3.02
DSLTK01	Diesel Tank 1	VOC	0.06	<0.01
DSLTK02	Diesel Tank 2	VOC	0.06	<0.01
DSLTK03	Diesel Tank 3	VOC	0.06	<0.01
MEOHMSS	Uncontrolled MSS	MeOH	109.96	0.46
MEOHMSSTK	Storage Tank MSS	VOC	21.15	0.44
		MeOH	3.94	0.01
		NO <sub>x</sub>	2.41	0.06
		CO	20.70	0.48
MEOHENG	Diesel Fired Emergency Generator	VOC	0.88	0.04
		NO <sub>x</sub>	0.88	0.04
		CO	1.10	0.06
		SO <sub>2</sub>	0.03	<0.01
		PM	0.07	<0.01
		PM <sub>10</sub>	0.07	<0.01
		PM <sub>2.5</sub>	0.07	<0.01

Emission Sources - Maximum Allowable Emission Rates

ICEFW01	Diesel Fired Firewater Pump Engine No 1.	VOC	4.67	0.23
		NO <sub>x</sub>	4.67	0.23
		CO	4.09	0.20
		SO <sub>2</sub>	0.03	<0.01
		PM	0.23	0.01
		PM <sub>10</sub>	0.23	0.01
		PM <sub>2.5</sub>	0.23	0.01
ICEFW02	Diesel Fired Firewater Pump Engine No. 2	VOC	4.67	0.23
		NO <sub>x</sub>	4.67	0.23
		CO	4.09	0.20
		SO <sub>2</sub>	0.03	<0.01
		PM	0.23	0.01
		PM <sub>10</sub>	0.23	0.01
		PM <sub>2.5</sub>	0.23	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<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - sulfur dioxide  
PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented  
PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented  
PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter  
CO - carbon monoxide  
NH<sub>3</sub> - ammonia  
MeOH - methanol (a subset of VOC)
- (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: November 12, 2015