Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 105710 and PSDTX1306

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 (4)	
			lbs/hour	TPY (5)
TRB1-TRB18 (6 propane, 6 ethylene, and 6 methane refrigeration turbines) are subject to a combined TPY cap.				
TRB1 TRB2 TRB7 TRB8 TRB13 TRB14	Propane Refrigeration Turbines Emission rates are per turbine	NO_x	26.70	-
		CO	16.22	-
		VOC	0.60	-
		SO_2	0.31	-
		H_2S	<0.01	-
		PM	0.67	-
		PM_{10}	0.67	-
		$PM_{2.5}$	0.67	-
TRB3 TRB4 TRB9 TRB10 TRB15 TRB16	Ethylene Refrigeration Turbines Emission rates are per turbine	NO_x	28.68	-
		CO	17.53	-
		VOC	0.60	-
		SO_2	0.31	-
		H_2S	<0.01	-
		PM	0.72	-
		PM_{10}	0.72	-
		$PM_{2.5}$	0.72	-
TRB5 TRB6 TRB11 TRB12	Methane Refrigeration Turbines Emission rates are per turbine	NO_x	26.99	-
		CO	16.36	-
		VOC	0.60	-

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		SO_2	0.31	-
		H_2S	<0.01	-
		PM	0.68	-
		PM_{10}	0.68	-
		$PM_{2.5}$	0.68	-
TRB1-TRB18	(6) Propane (6) Ethylene (6) Methane Refrigeration Turbines Annual cap	NO_x	-	2197.3
		CO	-	1333.6
		VOC	-	47.34
		SO_2	-	24.30
		H_2S	-	0.18
		PM	-	55.28
		PM_{10}	-	55.28
		$PM_{2.5}$	-	55.28
TO-1	Thermal Oxidizer	NO_x	1.38	6.07
		CO	1.50	6.57
		VOC	0.10	0.13
		SO_2	0.74	2.95
		H_2S	<0.01	0.02
		PM	0.21	0.90
		PM_{10}	0.21	0.90
		$PM_{2.5}$	0.21	0.90
TO-2	Thermal Oxidizer	NO_x	1.38	6.07
		CO	1.50	6.57
		VOC	0.10	0.13
		SO_2	0.74	2.95

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		H_2S	<0.01	0.02
		PM	0.21	0.90
		PM_{10}	0.21	0.90
		$PM_{2.5}$	0.21	0.90
TO-3	Thermal Oxidizer	NO_x	1.38	6.07
		CO	1.50	6.57
		VOC	0.10	0.13
		SO_2	0.74	2.95
		H_2S	<0.01	0.02
		PM	0.21	0.90
		PM_{10}	0.21	0.90
		$PM_{2.5}$	0.21	0.90
WTDYFLR1	Wet/Dry Gas Flare 1 (continuous)	NO_x	1.35	5.20
		CO	11.56	44.59
		VOC	6.56	26.11
		SO_2	0.02	0.07
		H_2S	<0.01	<0.01
WTDYFLR1	Wet/Dry Gas Flare 1 (MSS)	NO_x	368.79	26.80
		CO	3,162.03	229.77
		VOC	1,067.88	21.32
		SO_2	4.22	0.28
		H_2S	0.04	<0.01
WTDYFLR2	Wet/Dry Gas Flare 2 (continuous)	NO_x	1.35	5.20
		CO	11.56	44.59
		VOC	6.56	26.11

Emission Sources - Maximum Allowable Emission Rates

		SO_2	0.02	0.07
		H_2S	<0.01	<0.01
WTDYFLR2	Wet/Dry Gas Flare 2 (MSS)	NO_x	368.79	26.80
		CO	3,162.03	229.77
		VOC	1,067.88	21.32
		SO_2	4.22	0.28
		H_2S	0.04	<0.01
MRNFLR	Marine Flare	NO_x	32.46	3.61
		CO	278.28	30.97
		VOC	5.10	0.56
		SO_2	0.30	0.10
		H_2S	<0.01	<0.01
GEN1	Standby Generator 1	NO_x	9.42	0.12
		CO	1.48	0.02
		VOC	0.51	0.01
		SO_2	0.32	<0.01
		PM	0.13	<0.01
		PM_{10}	0.13	<0.01
		$PM_{2.5}$	0.13	<0.01
GEN2	Standby Generator 2	NO_x	9.42	0.12
		CO	1.48	0.02
		VOC	0.51	0.01
		SO_2	0.32	<0.01
		PM	0.13	<0.01
		PM_{10}	0.13	<0.01

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.13	<0.01
GEN3	Standby Generator 3	NO_x	9.42	0.12
		CO	1.48	0.02
		VOC	0.51	0.01
		SO_2	0.32	<0.01
		PM	0.13	<0.01
		PM_{10}	0.13	<0.01
		$PM_{2.5}$	0.13	<0.01
GEN4	Standby Generator 4	NO_x	9.42	0.12
		CO	1.48	0.02
		VOC	0.51	0.01
		SO_2	0.32	<0.01
		PM	0.13	<0.01
		PM_{10}	0.13	<0.01
		$PM_{2.5}$	0.13	<0.01
FWPUMP1	Diesel Firewater Pump 1	NO_x	2.90	0.07
		CO	0.69	0.02
		VOC	0.08	<0.01
		SO_2	0.01	<0.01
		PM	0.10	<0.01
		PM_{10}	0.10	<0.01
		$PM_{2.5}$	0.10	<0.01
FWPUMP2	Diesel Firewater Pump 2	NO_x	2.90	0.07
		CO	0.69	0.02
		VOC	0.08	<0.01

Emission Sources - Maximum Allowable Emission Rates

		SO_2	0.01	<0.01
		PM	0.10	<0.01
		PM_{10}	0.10	<0.01
		$PM_{2.5}$	0.10	<0.01
FWPUMP3	Diesel Firewater Pump 3	NO_x	2.90	0.07
		CO	0.69	0.02
		VOC	0.08	<0.01
		SO_2	0.01	<0.01
		PM	0.10	<0.01
		PM_{10}	0.10	<0.01
		$PM_{2.5}$	0.10	<0.01
IFRTK1	Condensate Tank	VOC	0.19	0.72
TRKLD	Truck Loading	VOC	4.41	0.10
DSLTK1	Diesel Tank	VOC	0.07	<0.01
DSLTK2	Diesel Tank	VOC	0.07	<0.01
DSLTK3	Diesel Tank	VOC	0.07	<0.01
DSLTK4	Diesel Tank	VOC	0.07	<0.01
FWPTK1	Diesel Tank	VOC	0.04	<0.01
FWPTK2	Diesel Tank	VOC	0.04	<0.01
FWPTK3	Diesel Tank	VOC	0.04	<0.01
GDFTK1	Diesel Tank	VOC	0.07	<0.01
GDFTK2	Gasoline Tank	VOC	17.38	0.37
AMNTK1	Amine Storage Tank	VOC	<0.01	<0.01
AMNSRG1	Amine Surge Tank - MSS	VOC	0.01	<0.01
AMNSRG2	Amine Surge Tank - MSS	VOC	0.01	<0.01

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AMNSRG3	Amine Surge Tank - MSS	VOC	0.01	<0.01
FUG	Fugitive Emissions (6)	VOC	6.78	29.70

(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
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
(4) Planned startup and shutdown (SS) lbs/hour emissions for all pollutants are authorized even if not specifically identified as SS.
(5) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period. Annual emission rates for each source include planned SS emissions, unless otherwise noted.
(6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: February 20, 2015