Emission Sources - Maximum Allowable Emission Rates

Permit Number 20907

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)
Current Operating Scenario (6)				
01	Engine, Waukesha 7042GL	NO_x	6.52	*
		CO	1.27	5.57
		VOC	2.63	*
		SO_2	0.06	0.28
		PM	0.11	0.47
		PM_{10}	0.11	0.47
		$PM_{2.5}$	0.11	0.47
02	Engine, Waukesha 7042GL	NO_x	6.52	*
		CO	1.27	5.57
		VOC	2.63	*
		SO_2	0.06	0.28
		PM	0.11	0.47
		PM_{10}	0.11	0.47
		$PM_{2.5}$	0.11	0.47
03	Engine, Waukesha 7042GL	NO_x	6.52	*
		CO	1.27	5.57
		VOC	2.63	*
		SO_2	0.06	0.28
		PM	0.11	0.47
		PM_{10}	0.11	0.47
		$PM_{2.5}$	0.11	0.47

Emission Sources - Maximum Allowable Emission Rates

04	Engine, Waukesha 7042GL	NO_x	6.52	*
		CO	1.27	5.57
		VOC	2.63	*
		SO_2	0.06	0.28
		PM	0.11	0.47
		PM_{10}	0.11	0.47
		$PM_{2.5}$	0.11	0.47
05	Engine, Waukesha 7042GL	NO_x	6.52	*
		CO	1.27	5.57
		VOC	2.63	*
		SO_2	0.06	0.28
		PM	0.11	0.47
		PM_{10}	0.11	0.47
		$PM_{2.5}$	0.11	0.47
06	Engine, Waukesha 7042GL	NO_x	6.52	*
		CO	1.27	5.57
		VOC	2.63	*
		SO_2	0.06	0.28
		PM	0.11	0.47
		PM_{10}	0.11	0.47
		$PM_{2.5}$	0.11	0.47
07	Engine, Waukesha 7042GL	NO_x	6.52	*
		CO	1.27	5.57
		VOC	2.63	*
		SO_2	0.06	0.28
		PM	0.11	0.47
		PM_{10}	0.11	0.47
		$PM_{2.5}$	0.11	0.47
08	Engine, Waukesha 7042GL	NO_x	6.52	*

Emission Sources - Maximum Allowable Emission Rates

		CO	1.27	5.57
		VOC	2.63	*
		SO_2	0.06	0.28
		PM	0.11	0.47
		PM_{10}	0.11	0.47
		$PM_{2.5}$	0.11	0.47
09	Engine, Waukesha 7042GL	NO_x	6.52	*
		CO	1.27	5.57
		VOC	2.63	*
		SO_2	0.06	0.28
		PM	0.11	0.47
		PM_{10}	0.11	0.47
		$PM_{2.5}$	0.11	0.47
14	Engine, Caterpillar G3616TALE	NO_x	4.90	*
		CO	4.02	17.60
		VOC	2.45	*
		SO_2	0.19	0.84
		PM	0.32	1.42
		PM_{10}	0.32	1.42
		$PM_{2.5}$	0.32	1.42
01/02/03/04/05/ 06/07/08/09/14	Compressor Engines Annual Cap*	NO_x	--	32.40
		VOC	--	62.40
10	Dehy#1 Reboiler Heater No. 1	NO_x	0.20	--
		CO	0.16	--
		VOC	0.01	--
		SO_2	0.01	--
		PM	0.01	--
		PM_{10}	0.01	--
		$PM_{2.5}$	0.01	--

Emission Sources - Maximum Allowable Emission Rates

11	Dehy#1 Reboiler Heater No. 2	NO_x	0.20	--
		CO	0.16	--
		VOC	0.01	--
		SO_2	0.01	--
		PM	0.01	--
		PM_{10}	0.01	--
		$PM_{2.5}$	0.01	--
10/11	Dehy#1 Reboiler Heater Nos. 1 and 2 Annual Cap	NO_x	--	0.86
		CO	--	0.72
		VOC	--	0.05
		SO_2	--	0.05
		PM	--	0.07
		PM_{10}	--	0.07
		$PM_{2.5}$	--	0.07
12	Facility Process Flare	NO_x	1.13	4.14
		CO	2.25	8.29
		VOC	1.75	1.13
16	Thermal Oxidizer	NO_x	0.67	1.48
		CO	0.57	1.24
		VOC	0.37	0.80
F	Fugitives (5)	VOC	0.51	2.24
Post-TERP Project Operational Scenario (7)				
1a	Compressor 1a (TERP)	NO_x	0.56	--
		VOC	0.01	--
		PM	0.04	--
		PM_{10}	0.04	--
		$PM_{2.5}$	0.04	--

Emission Sources - Maximum Allowable Emission Rates

		SO_2	<0.01	--
		CO	1.34	--
2a	Compressor 2a (TERP)	NO_x	0.56	--
		VOC	0.01	--
		PM	0.04	--
		PM_{10}	0.04	--
		$PM_{2.5}$	0.04	--
		SO_2	<0.01	--
		CO	1.34	--
3a	Compressor 3a (TERP)	NO_x	0.56	--
		VOC	0.01	--
		PM	0.04	--
		PM_{10}	0.04	--
		$PM_{2.5}$	0.04	--
		SO_2	<0.01	--
		CO	1.34	--
4a	Compressor 4a (TERP)	NO_x	0.56	--
		VOC	0.01	--
		PM	0.04	--
		PM_{10}	0.04	--
		$PM_{2.5}$	0.04	--
		SO_2	<0.01	--
		CO	1.34	--
5a	Compressor 5a (TERP)	NO_x	0.56	--
		VOC	0.01	--
		PM	0.04	--
		PM_{10}	0.04	--
		$PM_{2.5}$	0.04	--
		SO_2	<0.01	--

Emission Sources - Maximum Allowable Emission Rates

		CO	1.34	--
6a	Compressor 6a (TERP)	NO_x	0.56	--
		VOC	0.01	--
		PM	0.04	--
		PM_{10}	0.04	--
		$PM_{2.5}$	0.04	--
		SO_2	<0.01	--
		CO	1.34	--
7a	Compressor 7a (TERP)	NO_x	0.56	--
		VOC	0.01	--
		PM	0.04	--
		PM_{10}	0.04	--
		$PM_{2.5}$	0.04	--
		SO_2	<0.01	--
		CO	1.34	--
8a	Compressor 8a (TERP)	NO_x	0.56	--
		VOC	0.01	--
		PM	0.04	--
		PM_{10}	0.04	--
		$PM_{2.5}$	0.04	--
		SO_2	<0.01	--
		CO	1.34	--
9a	Compressor 9a	NO_x	0.56	--
		VOC	0.01	--
		PM	0.04	--
		PM_{10}	0.04	--
		$PM_{2.5}$	0.04	--
		SO_2	<0.01	--
		CO	1.34	--

Emission Sources - Maximum Allowable Emission Rates

14	Compressor 14 (Caterpillar G3616TALE)	NO_x	5.22	--
		VOC	3.91	--
		PM	0.34	--
		PM_{10}	0.34	--
		$PM_{2.5}$	0.34	--
		SO_2	0.02	--
		CO	4.28	--
Engine Cap	Annual Cap – All Engines	NO_x	--	17.44
		VOC	--	10.36
		PM	--	1.10
		PM_{10}	--	1.10
		$PM_{2.5}$	--	1.10
		SO_2	--	0.01
		CO	--	20.19
TERPSubCap	Terp SubCap (EPNs 1-8) (8)	NO_x	--	2.26
		VOC	--	0.05
		PM	--	0.15
		PM_{10}	--	0.15
		$PM_{2.5}$	--	0.15
		SO_2	--	<0.01
		CO	--	5.43
10	Dehy#1 Reboiler Heater No. 1	NO_x	0.20	--
		CO	0.16	--
		VOC	0.01	--
		SO_2	0.01	--
		PM	0.01	--
		PM_{10}	0.01	--
		$PM_{2.5}$	0.01	--
11	Dehy#1 Reboiler Heater No. 2	NO_x	0.20	--

Emission Sources - Maximum Allowable Emission Rates

		CO	0.16	--
		VOC	0.01	--
		SO_2	0.01	--
		PM	0.01	--
		PM_{10}	0.01	--
		$PM_{2.5}$	0.01	--
10/11	Dehy#1 Reboiler Heater Nos. 1 and 2 Annual Cap	NO_x	--	0.86
		CO	--	0.72
		VOC	--	0.05
		SO_2	--	0.05
		PM	--	0.07
		PM_{10}	--	0.07
		$PM_{2.5}$	--	0.07
12	Facility Process Flare	NO_x	1.13	4.14
		CO	2.25	8.29
		VOC	1.75	1.13
16	Thermal Oxidizer	NO_x	0.67	1.48
		CO	0.57	1.24
		VOC	0.37	0.80
F	Fugitives (5)	VOC	0.51	2.24

(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

Emission Sources - Maximum Allowable Emission Rates

CO - carbon monoxide

(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) Current Operating Scenario represents the plant before installation of the 8 TERP compressor engines referenced in the Special Conditions subsection titled Texas Emissions Reduction Plan (TERP).
(7) The Post-Terp Operational Scenario represents the plant after installation of all 8 of the TERP compressor engines referenced in the Special Conditions subsection titled Texas Emissions Reduction Plan (TERP).
(8) The TERP SubCap is to be considered a subset of the Engine Cap total.

Date: November 3, 2021