

## Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 104840, PSDTX1302, and N170

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)
65B-81A	Heating Medium Heater A	NO <sub>x</sub>	0.83	-
		CO	2.52	-
		PM	0.91	-
		PM <sub>10</sub>	0.91	-
		PM <sub>2.5</sub>	0.91	-
		SO <sub>2</sub>	0.08	-
		H <sub>2</sub> SO <sub>4</sub>	<0.01	-
		VOC	0.26	-
65B-81B	Heating Medium Heater B	NO <sub>x</sub>	0.83	-
		CO	2.52	-
		PM	0.91	-
		PM <sub>10</sub>	0.91	-
		PM <sub>2.5</sub>	0.91	-
		SO <sub>2</sub>	0.08	-
		H <sub>2</sub> SO <sub>4</sub>	<0.01	-
		VOC	0.26	-
65B-81C	Heating Medium Heater C	NO <sub>x</sub>	0.83	-
		CO	2.52	-
		PM	0.91	-
		PM <sub>10</sub>	0.91	-

Emission Sources - Maximum Allowable Emission Rates

		PM <sub>2.5</sub>	0.91	-
		SO <sub>2</sub>	0.08	-
		H <sub>2</sub> SO <sub>4</sub>	<0.01	-
		VOC	0.26	-
65B-81D	Heating Medium Heater D	NO <sub>x</sub>	0.83	-
		CO	2.52	-
		PM	0.91	-
		PM <sub>10</sub>	0.91	-
		PM <sub>2.5</sub>	0.91	-
		SO <sub>2</sub>	0.08	-
		H <sub>2</sub> SO <sub>4</sub>	<0.01	-
		VOC	0.26	-
65B-81E	Heating Medium Heater E	NO <sub>x</sub>	0.83	-
		CO	2.52	-
		PM	0.91	-
		PM <sub>10</sub>	0.91	-
		PM <sub>2.5</sub>	0.91	-
		SO <sub>2</sub>	0.08	-
		H <sub>2</sub> SO <sub>4</sub>	<0.01	-
		VOC	0.26	-
65B-81A through E	Heating Medium Heaters A through E	NO <sub>x</sub>	-	4.36
		CO	-	13.27
		PM	-	4.79
		PM <sub>10</sub>	-	4.79
		PM <sub>2.5</sub>	-	4.79
	Annual Emissions Cap			

Emission Sources - Maximum Allowable Emission Rates

		SO <sub>2</sub>	-	0.41
		H <sub>2</sub> SO <sub>4</sub>	-	0.03
		VOC	-	1.37
TO1	Amine Unit/ Thermal Oxidizer 61	NO <sub>x</sub>	0.30	1.31
		CO	0.09	0.40
		PM	1.29	5.65
		PM <sub>10</sub>	1.29	5.65
		PM <sub>2.5</sub>	1.29	5.65
		SO <sub>2</sub>	0.85	3.04
		H <sub>2</sub> SO <sub>4</sub>	0.06	0.23
		VOC	0.02	0.09
		H <sub>2</sub> S	0.17	0.62
TO2	Amine Unit/ Thermal Oxidizer 62	NO <sub>x</sub>	0.30	1.31
		CO	0.09	0.40
		PM	1.29	5.65
		PM <sub>10</sub>	1.29	5.65
		PM <sub>2.5</sub>	1.29	5.65
		SO <sub>2</sub>	0.85	3.04
		H <sub>2</sub> SO <sub>4</sub>	0.06	0.23
		VOC	0.02	0.09
		H <sub>2</sub> S	0.17	0.62
TO3	Amine Unit/ Thermal Oxidizer 63	NO <sub>x</sub>	0.30	1.31
		CO	0.09	0.40
		PM	1.29	5.65
		PM <sub>10</sub>	1.29	5.65

Emission Sources - Maximum Allowable Emission Rates

		PM <sub>2.5</sub>	1.29	5.65
		SO <sub>2</sub>	0.85	3.04
		H <sub>2</sub> SO <sub>4</sub>	0.06	0.23
		VOC	0.02	0.09
		H <sub>2</sub> S	0.17	0.62
CT	Combustion Turbine Stack	NO <sub>x</sub>	9.87	40.29
		NO <sub>x</sub> (SS)	87.00	-
		CO	12.02	48.95
		CO (SS)	57.00	-
		PM <sub>10</sub>	15.22	65.06
		PM <sub>2.5</sub>	15.22	65.06
		SO <sub>2</sub>	3.68	15.12
		H <sub>2</sub> SO <sub>4</sub>	0.28	1.16
		VOC	3.43	13.95
		NH <sub>3</sub>	18.24	74.11
LUBVENT	Lube Oil Vent	PM <sub>10</sub>	0.05	0.22
		PM <sub>2.5</sub>	0.05	0.22
		VOC	0.05	0.22
PTFFLARE	PTF Flare	NO <sub>x</sub>	21.65	2.06
		CO	43.22	4.11
		VOC	127.21	1.15
PTFFWP	Fire Water Pump	NO <sub>x</sub>	4.12	0.21
		CO	3.80	0.19
		PM	0.22	0.01
		PM <sub>10</sub>	0.22	0.01

Emission Sources - Maximum Allowable Emission Rates

		PM <sub>2.5</sub>	0.22	0.01
		SO <sub>2</sub>	0.01	<0.01
		H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
		VOC	0.22	0.01
PTFEG-1	Emergency Generator Train 61	NO <sub>x</sub>	7.55	0.19
		CO	4.34	0.11
		PM	0.25	0.01
		PM <sub>10</sub>	0.25	0.01
		PM <sub>2.5</sub>	0.25	0.01
		SO <sub>2</sub>	0.01	<0.01
		H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
		VOC	0.40	0.0099
PTFEG-2	Emergency Generator Train 62	NO <sub>x</sub>	7.55	0.19
		CO	4.34	0.11
		PM	0.25	0.01
		PM <sub>10</sub>	0.25	0.01
		PM <sub>2.5</sub>	0.25	0.01
		SO <sub>2</sub>	0.01	<0.01
		H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
		VOC	0.40	0.0099
PTFEG-3	Emergency Generator Train 63	NO <sub>x</sub>	7.55	0.19
		CO	4.34	0.11
		PM	0.25	0.01
		PM <sub>10</sub>	0.25	0.01
		PM <sub>2.5</sub>	0.25	0.01

Emission Sources - Maximum Allowable Emission Rates

		SO <sub>2</sub>	0.01	<0.01
		H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
		VOC	0.40	0.0099
PTFEG-4	Emergency Generator Utility Area	NO <sub>x</sub>	7.55	0.19
		CO	4.34	0.11
		PM	0.25	0.01
		PM <sub>10</sub>	0.25	0.01
		PM <sub>2.5</sub>	0.25	0.01
		SO <sub>2</sub>	0.01	<0.01
		H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
		VOC	0.40	0.0099
PTFEG-5	Emergency Generator Utility Area	NO <sub>x</sub>	7.55	0.19
		CO	4.34	0.11
		PM	0.25	0.01
		PM <sub>10</sub>	0.25	0.01
		PM <sub>2.5</sub>	0.25	0.01
		SO <sub>2</sub>	0.01	<0.01
		H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
		VOC	0.40	0.0099
PTFEAC	Emergency Air Compressor	NO <sub>x</sub>	1.87	0.05
		CO	1.73	0.04
		PM	0.10	<0.01
		PM <sub>10</sub>	0.10	<0.01
		PM <sub>2.5</sub>	0.10	<0.01
		SO <sub>2</sub>	0.01	<0.01

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		H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
		VOC	0.10	0.0025
FUG-TREAT	Pretreatment VOC Fugitives (6)	VOC	0.22	0.98
FUG-CT	Pretreatment Ammonia Fugitives (6)	NH <sub>3</sub>	0.12	0.51
PTFEGT-1	Diesel Emergency Generator Tank 1	VOC	<0.01	0.00058
PTFEGT-2	Diesel Emergency Generator Tank 2	VOC	<0.01	0.00058
PTFEGT-3	Diesel Emergency Generator Tank 3	VOC	<0.01	0.00058
PTFEGT-4	Diesel Emergency Generator Tank 4	VOC	<0.01	0.00058
PTFEGT-5	Diesel Emergency Generator Tank 5	VOC	<0.01	0.00058
PTFEACT-1	Diesel Emergency Air Compressor Tank 1	VOC	<0.01	0.00058
PTFFWPT-1	Diesel Firewater Tank	VOC	0.02	0.00042

- (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
- H<sub>2</sub>SO<sub>4</sub> - sulfuric acid mist
- H<sub>2</sub>S - hydrogen sulfide
- (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.
- (6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

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