Emission Sources - Maximum Allowable Emission Rates

Permit Number 80289 and PSDTX1082M1

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)
CBY41	Combustion Turbine 41	NO_x (6)	28	(8)
		NO_x (MSS) (6)	206	
		CO (6)	72.3	
		CO (MSS) (6)	6675	
		VOC (6)	5.5	
		VOC (MSS) (6)	48	
		PM	15.5	51
		PM_{10}	15.5	51
		$PM_{2.5}$	15.5	51
		SO_2	17.7	11.6
		H_2SO_4	2.7	1.8
		NH_3	20.5	80.3
		H_2CO (7)	0.47	1.8
CBY42	Combustion Turbine 42	NO_x (6)	28	(8)
		NO_x (MSS) (6)	206	
		CO (6)	72.3	
		CO (MSS) (6)	6675	
		VOC (6)	5.5	
		VOC (MSS) (6)	48	
		PM	15.5	51
		PM_{10}	15.5	51
		$PM_{2.5}$	15.5	51
		SO_2	17.7	11.6

Emission Sources - Maximum Allowable Emission Rates

		H_2SO_4	2.7	1.8
		NH_3	20.5	80.3
		H_2CO (7)	0.47	1.8
CBY4CAP	Combustion Turbines CBY41 and CBY42 CAP	NO_x	-	186.33
		CO	-	1733.12
		VOC	-	22.96
CBY41-LOV	Combustion Turbine 41 Lube Oil Vent	PM	0.05	0.22
		PM_{10}	0.05	0.22
CBY42-LOV	Combustion Turbine 42 Lube Oil Vent	PM	0.05	0.22
		PM_{10}	0.05	0.22
U4ST-LOV	Unit 4 Steam Turbine Lube Oil Vent	PM	0.05	0.22
		PM_{10}	0.05	0.22
BS-GEN	Black Start Generator	NO_x	11.8	2.95
		CO	0.53	0.13
		PM	0.05	0.01
		PM_{10}	0.05	0.01
		$PM_{2.5}$	0.05	0.01
		VOC	2.54	0.64
		SO_2	0.38	0.09
C-Tower1	Cooling Tower 1	PM	0.14	0.62
		PM_{10}	0.14	0.62
FUG-NAS	Fugitives: Natural Gas (5)	VOC	0.17	0.74
FUG-SCR	Fugitives: SCR Piping (5)	NH_3	0.02	0.1
MSSFUG	Miscellaneous Maintenance Activities (5)	VOC	32.65	0.61
		PM	2.31	0.05
		PM_{10}	0.59	0.04
		$PM_{2.5}$	0.57	0.04
		NO_x	<0.01	<0.01
		CO	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

		SO_2	<0.01	<0.01
		NH_3	<0.01	<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) NO_x - total oxides of nitrogen
    CO   - carbon monoxide
    VOC   - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
    PM   - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$
    PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$
    $PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
    SO_2 - sulfur dioxide
    H_2SO_4 - sulfuric acid
    NH_3 - ammonia
    H_2CO - formaldehyde
    MSS   - maintenance, startup and shutdown
(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) MSS lb/hr limits apply only during each clock hour that includes one or more minutes of MSS activities. During all other clock hours, the normal lb/hr limits apply.
(7) The formaldehyde emission limits and initial demonstration of compliance become effective upon the EPA either lifting the stay that applies to lean premix gas-fired turbines and diffusion flame gas-fired turbines or taking final action declining to remove these subcategories from the source category list. (See 69 Fed. Reg. 51184 (August 18, 2004), available at: http://www.epa.gov/ttn/atw/turbine/fr18au04.pdf).
(8) Emissions are included and represented under the annual cap emission rates.

Dated: May 31, 2018