Permit Numbers 22038 and PSDTX815

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. 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.	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
(1)			lbs/hour	TPY (4)
Case I: Turbine with D	ouct Burner Fired	,		
CG1	GE Frame 7 Turbine (75 MW) 265-MMBTU/HR Duct Burner (6)(7)(8)	NO _X	89.8	54.2
		СО	85.5	343.8
		SO ₂	7.9	19.5
		PM ₁₀	12.3	53.9
		VOC	5.2	21.8
		SO₃	0.3	0.73
		,		
CG2	GE Frame 7 Turbine (75 MW) 265-MMBTU/HR Duct Burner (6)(7)(8)	NOx	89.8	367.0
		СО	85.5	343.8
		SO ₂	7.9	19.5
		PM ₁₀	12.3	53.9
		VOC	5.2	21.8
		SO₃	0.3	0.73
			<u>I</u>	<u> </u>
FECG	Fugitives (5)	VOC	0.33	1.45
	1	1	1	

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1 2 [GE Frame 7	NO _X	58.0	54.2
	Turbine (75 MW)			
	265 MMBTU/HR Duct Burner	СО	59.0	227.8
	(6)(8)	SO ₂	0.7	2.8
		PM ₁₀	7.0	30.7
		VOC	2.0	7.9
		SO ₃	0.03	0.1
		•	,	
CG2	GE Frame 7 Turbine (75 MW)	NOx	58.0	227.8
	265 MMBTU/HR Duct Burner	СО	59.0	227.8
	(6)(8)	SO ₂	0.7	2.8
		PM ₁₀	7.0	30.7
		VOC	2.0	7.9
		SO ₃	0.03	0.1
		1	1	
Emissions Relat	ed to the CCU Boiler			
H600	CCU CO Boiler	NO _X	56.88	124.56
		СО	346.32	1381.92
			F02.40	216.62
		SO ₂	593.48	210.02
		SO ₂	66.00	289.08
		PM	66.00	289.08
		PM VOC	66.00 3.20	289.08 14.02
FUGCCU	CCU Fugitives (5)	PM VOC	66.00 3.20	289.08 14.02
FUGCCU	CCU Fugitives (5)	PM VOC NH ₃	66.00 3.20 5.25	289.08 14.02 23.02

		H ₂ S	0.10	0.42
FUGCCUSCR	FCCU SCR Fugitives (5)	NH ₃	0.06	0.25
MSSCOGEN	MSS Cogen Emissions	VOC	1.27	0.02
		СО	<0.01	<0.01
		NOx	<0.01	<0.01
		PM ₁₀	0.15	0.05
		PM _{2.5}	0.14	0.05
		NH ₃	17.76	0.02
Standard Permit (SP) listed below:	sources incorporate	d by reference. Sources rem	ain authorized by th	ne SP(s) as
	Stand	dard Permit Number 81971		
CG1	GE Frame 7 Turbine (75 MW) 265-MMBTU/HR Duct Burner (7)(8)	NO _X		54.2
		NH ₃	20.66	90.50
COGENFUGITIVES	Fugitives	NH ₃	0.09	0.38
COGENFUGITIVES		NH ₃	0.09	0.38

- (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

NH₃ - ammonia

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide SO₃ - sulfur trioxide

PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}

 PM_{10} - total particulate matter equal to or less than 10 microns in diameter $PM_{2.5}$ - total particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide H₂S - hydrogen sulfide

- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (6) Maximum hourly emission based on 20°F ambient temperature.
- (7) Annual emissions based on 70°F ambient temperature with duct burners in operation.
- (8) Maximum hourly emissions include planned maintenance, startup, and shutdown (MSS) emissions. Annual emissions include planned MSS emissions.

Date: January 13, 2015

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