Permit Numbers 122003 and PSDTX1424

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	Emission Rates	
(+)			lbs/hour (4)	TPY (5)	
Option 1				,	
1	Combustion Turbine 1/ Duct Burner 1	NO _x	28.71	132.59	
	(GE 7HA.01, 2x1)	NO _x (MSS)	208.96	-	
		со	17.49	177.70	
		CO (MSS)	1,169.62	-	
		voc	10.00	66.78	
		VOC (MSS)	443.30	-	
		SO ₂	6.48	23.79	
		РМ	21.45	63.86	
		PM ₁₀	21.45	63.86	
		PM _{2.5}	21.45	63.86	
		NH ₃	26.51	97.42	
		H ₂ SO ₄	4.17	15.28	
	Combustion Turbine 2/ Duct Burner 2	NO _x	28.71	132.59	
	(GE 7HA.01, 2x1)	NO _x (MSS)	208.96	-	
		со	17.49	177.70	
		CO (MSS)	1,169.62	-	
		voc	10.00	66.78	
		VOC (MSS)	443.30	-	
		SO ₂	6.48	23.79	

i	i			
		РМ	21.45	63.86
		PM ₁₀	21.45	63.86
		PM _{2.5}	21.45	63.86
		NH ₃	26.51	97.42
		H ₂ SO ₄	4.17	15.28
Option 2				•
1	Combustion Turbine 1/ Duct Burner 1	NO _x	35.53	150.67
	(GE 7HA.02, 2x1)	NO _x (MSS)	212.08	-
		СО	21.67	179.78
		CO (MSS)	1,171.53	-
		VOC	12.32	55.24
		VOC (MSS)	144.90	-
		SO ₂	8.03	29.76
		РМ	25.30	76.28
		PM ₁₀	25.30	76.28
		PM _{2.5}	25.30	76.28
		NH ₃	32.89	121.88
		H ₂ SO ₄	5.15	19.10
2	Combustion Turbine 2/ Duct Burner 2	NO _x	35.53	150.67
	(GE 7HA.02, 2x1)	NO _x (MSS)	212.08	-
		со	21.67	179.78
		CO (MSS)	1,171.53	-
		voc	12.32	55.24
		VOC (MSS)	144.90	-
		SO ₂	8.03	29.76

i				
		РМ	25.30	76.28
		PM ₁₀	25.30	76.28
		PM _{2.5}	25.30	76.28
		NH ₃	32.89	121.88
		H ₂ SO ₄	5.15	19.10
Option 3				•
1	Combustion Turbine 1/ Duct Burner 1	NO _x	25.85	99.61
	(GE 7FA.05, 2x1)	NO _x (MSS)	82.50	-
		СО	15.73	221.28
		CO (MSS)	1,674.20	-
		VOC	9.01	110.74
		VOC (MSS)	505.95	-
		SO ₂	5.85	21.09
		РМ	20.02	59.18
		PM ₁₀	20.02	59.18
		PM _{2.5}	20.02	59.18
		NH ₃	23.98	86.34
		H ₂ SO ₄	3.75	13.55
2	Combustion Turbine 2/ Duct Burner 2	NO _x	25.85	99.61
	(GE 7FA.05, 2x1)	NO _x (MSS)	82.50	-
		СО	15.73	221.28
		CO (MSS)	1,674.20	-
		VOC	9.01	110.74
		VOC (MSS)	505.95	-
		SO ₂	5.85	21.09

I	I			
		PM	20.02	59.18
		PM ₁₀	20.02	59.18
		PM _{2.5}	20.02	59.18
		NH ₃	23.98	86.34
		H ₂ SO ₄	3.75	13.55
Option 4				
1	Combustion Turbine 1/ Duct Burner 1	NO _x	25.08	116.51
	(MHI 501GAC, 2x1)	NO _x (MSS)	54.60	-
		СО	22.88	552.71
		CO (MSS)	1,287.07	-
		voc	8.47	191.60
		VOC (MSS)	443.38	-
		SO ₂	4.73	20.54
		РМ	14.19	57.40
		PM ₁₀	14.19	57.40
		PM _{2.5}	14.19	57.40
		NH₃	13.86	60.21
		H ₂ SO ₄	4.31	18.72
2	Combustion Turbine 2/ Duct Burner 2	NO _x	25.08	116.51
	(MHI 501GAC, 2x1)	NO _x (MSS)	54.60	-
		СО	22.88	552.71
		CO (MSS)	1,287.07	-
		VOC	8.47	191.60
		VOC (MSS)	443.38	-
		SO ₂	4.73	20.54

1	1		1	1
		РМ	14.19	57.40
		PM ₁₀	14.19	57.40
		PM _{2.5}	14.19	57.40
		NH ₃	13.86	60.21
		H ₂ SO ₄	4.31	18.72
Option 5				•
1	Combustion Turbine 1/ Duct Burner 1	NO _x	25.08	116.03
	[MHI 501GAC, (2) 1x1]	NO _x (MSS)	54.60	-
		СО	22.88	533.23
		CO (MSS)	1,351.15	-
		VOC	8.47	182.29
		VOC (MSS)	433.80	-
		SO ₂	4.73	20.54
		РМ	14.19	57.40
		PM ₁₀	14.19	57.40
		PM _{2.5}	14.19	57.40
		NH ₃	13.86	60.21
		H ₂ SO ₄	4.31	18.72
2	Combustion Turbine 2/ Duct Burner 2	NO _x	25.08	116.03
	[MHI 501GAC,	NO _x (MSS)	54.60	-
	(2) 1x1]	СО	22.88	533.23
		CO (MSS)	1,351.15	-
		VOC	8.47	182.29
		VOC (MSS)	433.80	-
		SO ₂	4.73	20.54

I		PM		
			14.19	57.40
		PM ₁₀	14.19	57.40
		PM _{2.5}	14.19	57.40
		NH ₃	13.86	60.21
		H ₂ SO ₄	4.31	18.72
Option 6				
1	Combustion Turbine 1/ Duct Burner 1	NO _x	25.30	128.63
[Siemens SCC6-8000H(1.4), 2x1]	[Siemens SCC6-	NO _x (MSS)	173.63	-
	000011(1.4), 2X1]	СО	15.40	362.29
		CO (MSS)	1,952.45	-
		VOC	7.92	79.83
		VOC (MSS)	332.77	-
		SO ₂	4.95	20.69
		РМ	15.62	65.56
		PM ₁₀	15.62	65.56
		PM _{2.5}	15.62	65.56
		NH ₃	23.43	100.09
		H ₂ SO ₄	1.76	7.38
2	Combustion Turbine 2/ Duct Burner 2	NO _x	25.30	128.63
	[Siemens SCC6- 8000H(1.4), 2x1]	NO _x (MSS)	173.63	-
	000011(1.4), 2X1]	СО	15.40	362.29
		CO (MSS)	1,952.45	-
		VOC	7.92	79.83
		VOC (MSS)	332.77	-
		SO ₂	4.95	20.69

Emission Sources - Maximum Allowable Emission Rates

i	1			
		PM	15.62	65.56
		PM ₁₀	15.62	65.56
		PM _{2.5}	15.62	65.56
		NH ₃	23.43	100.09
		H ₂ SO ₄	1.76	7.38
3	Auxiliary Boiler	NO _x	1.61	3.53
		со	5.45	11.93
		voc	0.83	1.82
		PM	1.15	2.52
		PM ₁₀	1.15	2.52
		PM _{2.5}	1.15	2.52
		SO ₂	0.09	0.20
4	Emergency Generator	NO _x	42.33	3.53
	Generator	со	23.02	11.93
		voc	42.33	1.82
		РМ	1.32	2.52
		PM ₁₀	1.32	2.52
		PM _{2.5}	1.32	2.52
		SO ₂	0.05	<0.01
5	Fire Pump Engine	NO _x	4.96	0.25
		СО	0.01	<0.01
		VOC	4.96	0.25
		PM	0.25	0.01
		PM ₁₀	0.25	0.01
		PM _{2.5}	0.25	0.01

		SO ₂	0.01	<0.01
6	Cooling Tower	PM	15.01	65.75
		PM ₁₀	1.06	4.65
		PM _{2.5}	0.01	0.03
7	Diesel Tank - Emergency Generator	voc	0.01	0.02
8	Diesel Tank - Fire Pump Engine	voc	0.01	<0.01
9	Fugitive Emissions - Ammonia (6)	NH ₃	0.03	0.15
10	Dew Point Heater	NO _x	0.60	2.63
		СО	1.10	4.82
		VOC	0.08	0.35
		PM	0.07	0.31
		PM ₁₀	0.07	0.31
		PM _{2.5}	0.07	0.31
		SO ₂	0.01	0.03
11	Fugitive Emissions - Natural Gas (6)	VOC	<0.01	0.01
LOV_1	Lube Oil Vent	PM	0.09	0.39
		PM ₁₀	0.09	0.39
		PM _{2.5}	0.09	0.39
		VOC	0.09	0.39
LOV_2	Lube Oil Vent	PM	0.09	0.39
		PM ₁₀	0.09	0.39
		PM _{2.5}	0.09	0.39
		VOC	0.09	0.39
LOV_3	Lube Oil Vent	PM	0.09	0.39

		PM ₁₀	0.09	0.39
		PM _{2.5}	0.09	0.39
		voc	0.09	0.39
LOV_4	Lube Oil Vent	PM	0.09	0.39
		PM ₁₀	0.09	0.39
		PM _{2.5}	0.09	0.39
		voc	0.09	0.39
E	Inherently Low Emitting Maintenance Activities	NO _x	<0.01	<0.01
		со	<0.01	<0.01
		voc	1.59	0.02
		РМ	0.17	0.02
		PM ₁₀	0.17	0.02
		PM _{2.5}	0.17	0.02
		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) VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - NO_x total oxides of nitrogen
 - SO₂ sulfur dioxide
 - PM total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 - PM₁₀ 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 maintenance, startup, and shutdown (MSS) lbs/hour emissions for all pollutants are authorized even if not specifically identified as MSS. During any clock hour that includes one or more minutes of planned MSS, that pollutant's maximum hourly emission rate shall apply during that clock hour.
- (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 MSS emissions.
- (6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Permit Numbers	122003	and F	PSDT	(1424
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Date:	February 9, 2015	
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