Permit Numbers 107523, PSDTX1336, and N174M3

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	
(<u></u>	Course Hame (2)	7 iii Oomammani Namo (O)	lbs/hour	TPY (4)
COMBCAP	Combustion Unit Cap Includes HR15.101 DW37.101 BO10.103A BO10.103B (8)	NO _x		110.21
		SO ₂	33.84	135.22
		NH ₃		127.27
		H ₂ SO ₄		41.41
COMBCAP2	Combustion Cap Includes	СО		106.49
	HR15.101	VOC		6.26
	BO10.103A BO10.103B	РМ		17.14
	(9)	PM ₁₀		17.14
		PM _{2.5}		17.14
HR15.101	Reactor Charge Heater (8)(9)	NO _x	9.74	21.34
		NO _x MSS (6)(10)	15.59	
		СО	38.32	83.92
		VOC	0.97	4.27
		VOC MSS (6)(10)	1.95	
		PM	5.85	15.90
		PM ₁₀	5.85	15.90
		PM _{2.5}	5.85	15.90
		SO ₂	25.45	111.48
		NH ₃	2.20	9.65
		H ₂ SO ₄	7.80	34.14
DW37.101	Waste Heat Boiler, Waste Heat Boiler Burner, HR15.103, Regeneration Air Heater, HR15.102, Regen Air Comp. Gas	NO _x	37.53	75.74
		NO _x MSS (6)(10)	67.50	
		СО	87.84	178.83
		CO MSS (6)(10)	90.00	
	Turbine A,			

Emission Sources - Maximum Allowable Emission Rates

		VOC	18.76	83.09
		VOC MSS (6)(10)	43.76	
		PM	33.06	78.91
		PM ₁₀	33.06	78.91
		PM _{2.5}	33.06	78.91
		SO ₂	36.71	55.54
		NH ₃	31.18	117.09
		H ₂ SO ₄	11.24	34.61
GT26.101A	Turbine A Bypass	NO _x	43.51	1.47
	Stack (7)	СО	152.98	0.79
		VOC	3.97	0.05
		PM	3.00	0.18
		PM ₁₀	3.00	0.18
		PM _{2.5}	3.00	0.18
		SO ₂	0.88	0.04
GT26.101B	Turbine B Bypass Stack (7)	NO _x	43.51	1.47
	Stack (1)	СО	152.98	0.79
		VOC	3.97	0.05
		РМ	3.00	0.18
		PM ₁₀	3.00	0.18
		PM _{2.5}	3.00	0.18
		SO ₂	0.88	0.04
BO10.103A	Auxiliary Boiler A (8)(9)	NO _x	4.31	
	(6)(9)	NO _x MSS (10)	10.50	
		СО	31.89	
		VOC	3.45	
		РМ	2.16	
		PM ₁₀	2.16	
		PM _{2.5}	2.16	

1	1			
		SO ₂	24.84	
		NH ₃	1.95	
		H ₂ SO ₄	7.61	
BO10.103B	Auxiliary Boiler B (8)(9)	NO _x	4.31	
	(0)(9)	NO _x MSS (10)	10.50	
		СО	31.89	
		VOC	3.45	
		РМ	2.16	
		PM ₁₀	2.16	
		PM _{2.5}	2.16	
		SO ₂	24.84	
		NH ₃	1.95	
		H ₂ SO ₄	7.61	
BO10.103A BO10.103B	Auxiliary Boiler A Auxiliary Boiler B	NO _x		21.24
BO10.103B	Annual Caps (8)(9)	СО		59.58
		VOC		10.77
		РМ		6.73
		PM ₁₀		6.73
		PM _{2.5}		6.73
		SO ₂		7.87
		NH ₃		5.87
		H ₂ SO ₄		2.41
CT13.801	Cooling Tower (5)	РМ	2.53	6.33
		PM ₁₀	1.73	4.77
		PM _{2.5}	0.67	1.95
		VOC	2.81	6.16
SK25.801		NO _x	22.62	
	Hourly Rates	SO ₂	0.54	
		СО	117.33	

Emission Sources - Maximum Allowable Emission Rates

1	1			
		VOC	10.31	
	Process Flare, MSS (10) Hourly Rates	NO _x	144.57	
	(10) Houry Rates	SO ₂	0.78	
		СО	754.01	
		VOC	81.35	
SK25.801	Process Flare Annual	NO _x		27.24
	Rates	SO ₂		0.81
		СО		142.37
		VOC		8.54
PM18.803	Fire Water Pump	NO _x	2.53	0.07
	Engine	СО	4.01	0.10
		VOC	2.10	0.05
		PM	0.23	<0.01
		PM ₁₀	0.23	<0.01
		PM _{2.5}	0.23	<0.01
		SO ₂	0.01	<0.01
GEN001	PCR001 Emergency	NOx	4.41	0.11
	Generator Engine	СО	6.99	0.18
		VOC	3.66	0.10
		PM	0.40	0.01
		PM ₁₀	0.40	0.01
		PM _{2.5}	0.40	0.01
		SO ₂	0.01	<0.01
GEN002	PCR004 Emergency	NO _x	4.41	0.11
	Generator Engine	СО	6.99	0.18
		voc	3.66	0.10
		PM	0.40	0.01
		PM ₁₀	0.40	0.01
		PM _{2.5}	0.40	0.01

		SO ₂	0.01	<0.01
GEN003	Control Room	NO _x	2.75	0.07
	Emergency Generator Engine	со	4.37	0.11
		VOC	2.29	0.06
		PM	0.25	<0.01
		PM ₁₀	0.25	<0.01
		PM _{2.5}	0.25	<0.01
		SO ₂	0.01	<0.01
LOAD-PDH	Truck Loading Line Disconnect Losses	VOC	<0.01	<0.01
UNLD-PDH	Truck Unloading Line Disconnect Losses	VOC	0.01	<0.01
FUG-PDH	Process Fugitives (5)	VOC	3.47	15.19
FUG-NGAS	Nat. Gas Pipeline Fugitives (5)	VOC	0.14	0.61
FUG-SCR	SCR Ammonia Fugitives (5)	NH ₃	0.01	0.06
MSS-PDH	Maintenance, Startup, Shutdown Cap	VOC	21.11	0.51
CATMSS1	Catalyst Blending	РМ	0.02	<0.01
	Filter Vent	PM ₁₀	0.02	<0.01
		PM _{2.5}	0.02	<0.01
CATMSS2	Catalyst Loading Fugitive	РМ	0.03	<0.01
	Fugitive	PM ₁₀	0.01	<0.01
		PM _{2.5}	0.01	<0.01
CATMSS3	Catalyst Loading Filter Vents	РМ	0.01	<0.01
	Vents	PM ₁₀	0.01	<0.01
		PM _{2.5}	0.01	<0.01
CATMSS4	Catalyst Unloading Filter Vents	PM	0.04	0.01
	Filter Verits	PM ₁₀	0.04	0.01
		PM _{2.5}	0.04	0.01
CATMSS5	Catalyst Separation Filter Vent	PM	0.02	<0.01

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		PM ₁₀	0.02	<0.01
		PM _{2.5}	0.02	<0.01
FL20.103	Catalyst De-dusting Filter Vent	РМ	3.40	0.01
		PM ₁₀	0.99	<0.01
		PM _{2.5}	0.55	<0.01
WWT	Wastewater Treatment Facilities	VOC	0.22	0.95
SV19.901	Wastewater Equalization Tank	VOC	0.01	0.04
SV19.610	Sludge Holding Tank	voc	0.01	0.04
SV19.842	FWP Diesel Tote	voc	0.01	0.04
SV19.841	Methanol Tote	voc	0.01	0.04

- (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
 - $\begin{array}{cccc} CO & & \ carbon \ monoxide \\ H_2SO_4 & & \ sulfuric \ acid \\ NH_3 & & \ ammonia \end{array}$
- (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) Annual MSS emissions are included in the annual routine allowable rate for this EPN.
- (7) Annual emissions are sub-caps of the annual allowable rate for EPN DW37.101.
- (8) The annual combined NO_x , SO_2 , NH_3 , H_2SO_4 emissions from Emission Point Nos. HR15.101, DW37.101, BO10.103A, BO10.103B are limited per the annual emissions CAP for each pollutant listed.
- (9) The annual combined CO, VOC, PM, PM₁₀, and PM_{2.5} emissions from Emission Point Nos. HR15.101, BO10.103A, and BO10.103B are limited per the annual emissions CAP for each pollutant listed.
- (10)Contaminants for this EPN not specifically listed in MSS are limited to their respective routine short-term (lb/hr) emission rates.