Permit Numbers 56653 and PSDTX1376

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

Combustion Units Firing Natural Gas

Emission Point No.	Source Name (2)	Air Contaminant Name (3)	Emission Rates		
(1)			lbs/hour	TPY (4)	
BOILER1 with Low- NO _x Burners	Central Plant Boiler	NO _x	4.46		
NO _x burriers	No. 1 124 MMBtu/hr	СО	4.59		
		VOC	0.25		
		SO ₂	0.07		
		PM	0.99		
		PM ₁₀	0.99		
		PM _{2.5}	0.99		
BOILER2 with Low- NO _x Burners	Central Plant Boiler No. 2 124 MMBtu/hr	NO _x	2.48		
NO _X Burners		СО	2.23		
		VOC	0.15		
		SO ₂	0.07		
		PM	0.99		
		PM ₁₀	0.99		
		PM _{2.5}	0.99		
BOILER9 with Low- NO _x Burners	West Chill Plant Boiler 140 MMBtu/hr	NO _x	1.40	6.13	
NO _x Burners		СО	4.90	21.45	
		VOC	0.75	3.31	
		SO ₂	0.08	0.36	
		PM	1.04	4.57	
		PM ₁₀	1.04	4.57	
		PM _{2.5}	1.04	4.57	

WP-CTG/HRSG	West Plant Combustion Turbine Normal Operating Emissions	NO _x	0.96	3.54
		СО	12.10	79.40
	Lillissions	VOC	0.76	2.84
		SO ₂	0.34	0.52
		РМ	1.80	5.06
		PM ₁₀	1.80	5.06
		PM _{2.5}	1.80	5.06
		H ₂ SO ₄	0.08	0.12
		(NH ₄) ₂ SO ₄	0.10	0.16
		NH ₃	1.66	5.07
EP-CTG/HRSG	East Plant Combustion Turbine Normal Operating Emissions	NO _x	0.96	3.54
		СО	12.10	79.40
		VOC	0.76	2.84
		SO ₂	0.34	0.52
		РМ	1.80	5.06
		PM ₁₀	1.80	5.06
		PM _{2.5}	1.80	5.06
		H ₂ SO ₄	0.08	0.12
		(NH ₄) ₂ SO ₄	0.10	0.16
		NH₃	1.66	5.07

Annual Limits for Boilers 1 and 2

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Emission Point No.	Source Name (2)	Air Contaminant Name (3)	Emission	Rates			
(-)			lbs/hour	TPY (4)			

BOILER1 and BOILER2 Central Plant Boiler No. 1 and Central Plant Boiler No. 2 Combined Annual Limits Firing Natural		NO _x	 17.13
	Plant Boiler No. 2	СО	 16.95
	Limits Firing Natural Gas and up to 200,000 gallons Fuel	voc	 0.97
		SO ₂	 5.06
Oil	PM	 4.78	
		PM ₁₀	 4.78
		PM _{2.5}	 4.78

Short Term Limits for Boilers 1 and 2 when firing Fuel Oil

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
BOILER1 with Low- NO _x Burners	Central Plant Boiler No. 1, 124 MMBtu/hr	NO _x	16.12	
	firing Fuel Oil	СО	15.0	
		VOC	0.93	
		SO ₂	41.73	
		PM	2.92	
		PM ₁₀	2.92	
		PM _{2.5}	2.92	
BOILER2 with Low- NO _x Burners	Central Plant Boiler No. 2, 124 MMBtu/hr firing Fuel Oil	NO _x	12.4	
NO _x burners		СО	15.0	
		VOC	0.62	
		SO ₂	41.73	
		РМ	2.92	
		PM ₁₀	2.92	
		PM _{2.5}	2.92	

Fugitives and Planned Maintenance Emissions

Emission Point No.	Source Name (2)	Air Contaminant Name (3)	Emission Rates (5)
(1)			

			lbs/hour	TPY (4)
BOILER9 MSS	West Chill Plant Boiler	NOx	4.20	
	140 MMBtu/hr Short Term MSS (6)	СО	14.70	
WP-CTG/HRSG MSS	West Plant Combustion Turbine	NO _x	2.36	
	Short Term MSS	СО	180.77	
		VOC	2.49	
EP-CTG/HRSG MSS	East Plant Combustion Turbine	NOx	2.36	
	Short Term MSS	СО	180.77	
		VOC	2.49	
TURB-MSS	ILE Turbine Maintenance	NO _x	< 0.01	< 0.01
	Fugitives	СО	< 0.01	< 0.01
		VOC	0.53	< 0.01
		РМ	0.09	0.02
		PM ₁₀	0.09	0.02
		PM _{2.5}	0.09	0.02
		NH ₃	< 0.01	< 0.01
WP-CTLOV	West Plant Combustion Turbine Lube Oil Vent	VOC	< 0.01	< 0.01
		РМ	< 0.01	< 0.01
		PM ₁₀	< 0.01	< 0.01
		PM _{2.5}	< 0.01	< 0.01
EP-CTLOV	East Plant	VOC	< 0.01	< 0.01
	Combustion Turbine Lube Oil Vent	РМ	< 0.01	< 0.01
		PM ₁₀	< 0.01	< 0.01
		PM _{2.5}	< 0.01	< 0.01
WP-STLOV	West Plant Steam Turbine Lube Oil	VOC	< 0.01	< 0.01
	Vent	РМ	< 0.01	< 0.01

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	PM ₁₀	< 0.01	< 0.01
	PM _{2.5}	< 0.01	< 0.01
East Plant Steam	voc	< 0.01	< 0.01
Vent	PM	< 0.01	< 0.01
	PM ₁₀	< 0.01	< 0.01
	PM _{2.5}	< 0.01	< 0.01
West Plant Cooling Tower	РМ	0.52	2.26
	PM ₁₀	0.22	0.98
	PM _{2.5}	< 0.01	< 0.01
East Plant Cooling Tower	РМ	0.27	1.17
	PM ₁₀	0.12	0.51
	PM _{2.5}	< 0.01	< 0.01
Fuel fugitives	voc	0.20	0.88
Ammonia fugitives	NH ₃	0.05	0.21
Ammonia fugitives	NH ₃	0.05	0.21
	Turbine Lube Oil Vent West Plant Cooling Tower East Plant Cooling Tower Fuel fugitives Ammonia fugitives	East Plant Steam Turbine Lube Oil Vent PM PM ₁₀ PM _{2.5} West Plant Cooling Tower PM PM ₁₀ PM _{2.5} East Plant Cooling Tower PM PM ₁₀ PM _{2.5} East Plant Cooling Tower VOC PM PM PM PM PM PM PM PM PM P	PM _{2.5}

- (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 H_2SO_4 - sulfuric acid $(NH_4)_2SO_4$ - ammonium sulfate

NH₃ - ammonia

- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period. Annual emission limits include planned startup and shutdown activities.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations. Emission rates include planned MSS activities.
- (6) During periods of start-up, shutdown, and maintenance (30 percent or less of firing capacity).

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Date: October 13, 2014