# Permit Numbers 42179, PSDTX955, and N021

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.	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
(1)			lbs/hour	TPY (4)
Turbines, Duct Burne	rs, and Auxiliary Boil	ers (Hourly Limits)		
GTG/HRSG1	Turbine/HRSG No. 1 (Westinghouse 501F Turbine with 475 MMBtu/hr Duct	NO <sub>x</sub> (5)	32.1	
		СО	346.0	
	Burner)	PM <sub>10</sub>	29.4	
		voc	26.9	
		SO <sub>2</sub>	31.4	
		NH₃	28.0	
		H <sub>2</sub> SO <sub>4</sub>	4.8	
GTG/HRSG2	Turbine/HRSG No. 2 (Westinghouse 501F Turbine with 475 MMBtu/hr Duct Burner)	NO <sub>x</sub> (5)	32.1	
		СО	346.0	
		PM <sub>10</sub>	29.4	
		voc	26.9	
		SO <sub>2</sub>	31.4	
		NH₃	28.0	
		H <sub>2</sub> SO <sub>4</sub>	4.8	
AUXBOIL 1	Auxiliary Steam Boiler No. 1 (Rated at 430 MMBtu/hr)	NO <sub>x</sub> (5)	22.8	
		со	26.2	
		PM <sub>10</sub>	7.6	
		voc	7.6	
		SO <sub>2</sub>	6.23	

			T	1
		H <sub>2</sub> SO <sub>4</sub>	0.95	
AUXBOIL 2	Auxiliary Steam Boiler No. 2 (Rated at 430 MMBtu/hr)	NO <sub>x</sub> (5)	22.8	
		со	26.2	
		PM <sub>10</sub>	7.6	
		voc	7.6	
		SO <sub>2</sub>	6.23	
		H <sub>2</sub> SO <sub>4</sub>	0.95	
AUXBOIL 3	Auxiliary Steam Boiler No. 3	NO <sub>x</sub> (5)	22.8	
	Bollet No. 3	СО	26.2	
		PM <sub>10</sub>	7.6	
		voc	7.6	
		SO <sub>2</sub>	6.23	
		H <sub>2</sub> SO <sub>4</sub>	0.95	
Turbines, Duct Burn	ers, and Auxiliary Boi	lers Planned Maintenance, St	artup, and Shutdow	n Limits (6)
GTG/HRSG1	Turbine/HRSG No. 1 MSS	NOx	350.00	
		со	3200.00	
		PM <sub>10</sub>	29.40	
		voc	183.49	
		SO <sub>2</sub>	31.40	
		NH <sub>3</sub>	50.00	
		H <sub>2</sub> SO <sub>4</sub>	4.80	

GTG/HRSG2	Turbine/HRSG No. 2	NOx	350.00	 ì
	MSS	NOx	350.00	 ì

		со	3200.00	
		PM <sub>10</sub>	29.40	
		voc	183.49	
		SO <sub>2</sub>	31.40	
		NH <sub>3</sub>	50.00	
		H <sub>2</sub> SO <sub>4</sub>	4.80	
AUXBOIL1	Auxiliary Steam Boiler No. 1 MSS	NOx	22.80	
		со	31.44	
		SO <sub>2</sub>	6.23	
		voc	9.12	
		PM <sub>10</sub>	7.60	
AUXBOIL2	Auxiliary Steam Boiler No. 2 MSS	NO <sub>X</sub>	22.80	
		СО	31.44	
		SO <sub>2</sub>	6.23	
		VOC	9.12	
		PM <sub>10</sub>	7.60	
AUXBOIL3	Auxiliary Steam Boiler No. 3 MSS	NO <sub>X</sub>	22.80	
		СО	31.44	
		SO <sub>2</sub>	6.23	
		VOC	9.12	
		PM <sub>10</sub>	7.60	
Turbines, Duct Burners, and Auxiliary Boilers (Combined Annual Limits)				
GTG/HRSG 1-2 and AUXBOIL 1-3	Turbine/HRSG 1 and 2 and Auxiliary Boilers 1-3	NO <sub>X</sub>		268.0
TAOADOIL 1-3		со		937.0

1	1			
		PM <sub>10</sub>		180.0
		voc		102.0
		SO <sub>2</sub>		22.5
		NH <sub>3</sub>		220.0
		H <sub>2</sub> SO <sub>4</sub>		3.44
Additional Sources	,			
COOLTWR1	Cooling Tower 1 (7)	PM <sub>10</sub>	1.22	3.13
LUBEOILFUG	Lubricating Oil Systems Fugitives (7) (8)	voc	0.097	0.29
FUELGASFUG	Fuel Gas System (7) (8)	voc	0.179	0.53
NH3	Ammonia Fugitives (7) (8)	NH₃	0.011	0.03
OILDEMIST	Oil Mist Eliminator (All turbines) (7)	voc	0.024	0.06
TK-004	Americor 1,000- Gallon Storage Tank (7)	voc	0.001	0.001
TK-004AX	Americor 1,000- Gallon Storage Tank (7)	VOC	0.001	0.001

MSSFUG MSS-Related Fugitives		NO <sub>x</sub>	<0.001	<0.001
	. ag.ares	со	<0.001	<0.001
	VOC	3.52	0.02	
		PM <sub>10</sub> /PM <sub>2.5</sub>	0.11	0.02
		NH <sub>3</sub>	2.66	0.004

- (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<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

 $PM_{10}$  - total particulate matter suspended in the atmosphere equal to or less than 10 microns in

diameter, including PM<sub>2.5</sub>, as represented

PM<sub>2.5</sub> - total particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

 $NH_3$  - ammonia  $H_2SO_4$  - sulfuric acid

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

- (5) The maximum pound per hour (lb/hr)  $NO_X$  emission rate is based upon a rolling three-hour concentration.
- (6) For each pollutant whose emissions during planned MSS activities are measured using a continuous emissions monitoring system, the maintenance, startup, and shutdown (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 lb/hr and tpy emission limits specified in the table entitled "Emissions Sources Maximum Allowable Emission Rates" for this facility includes emissions from the facility during both normal operations and planned MSS activities.
- (8) Fugitive emissions are an estimate only and should not be considered as maximum allowable emission rates.

Date: December 16, 2011