### Permit Number 20041, N196M1, and PSDTX1590

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)		Name (5)	lb/hour	TPY (4)
TC1	Test Cell 1	NO <sub>x</sub>	106.9	-
	Gas fuel firing	со	84.8	-
		voc	46.6	-
		РМ	5.3	-
		PM <sub>10</sub>	5.3	-
		PM <sub>2.5</sub>	5.3	-
		SO <sub>2</sub>	2.0	-
TC1	Test Cell 1 Liquid fuel firing	NO <sub>x</sub>	181.5	-
		СО	88.8	-
		VOC	20.4	-
		РМ	15.7	-
		PM <sub>10</sub>	15.7	-
		PM <sub>2.5</sub>	15.7	-
		SO <sub>2</sub>	7.5	-
TC1	Test Cell 1 - Annual Emission Rate	NO <sub>x</sub>	-	100.2
	Gas and Liquid Fuel Firing	СО	-	27.7
		VOC	-	9.4
		РМ	-	10.7
		PM <sub>10</sub>	-	10.7
		PM <sub>2.5</sub>	-	10.7
		SO <sub>2</sub>	-	2.9

TC2		NO <sub>x</sub>	8.7	-
	Gas Fuel Firing	СО	18.4	-
		VOC	4.7	-
		PM	0.7	-
		PM <sub>10</sub>	0.7	-
		PM <sub>2.5</sub>	0.7	-
		SO <sub>2</sub>	0.4	-
TC2	Test Cell 2	NO <sub>x</sub>	13.0	-
	Liquid Fuel Firing	СО	37.0	-
		VOC	4.7	-
		РМ	3.5	-
		PM <sub>10</sub>	3.5	-
		PM <sub>2.5</sub>	3.5	-
		SO <sub>2</sub>	1.5	-
TC2	Test Cell 2 – Annual Emission Rates	NO <sub>x</sub>	-	8.7
	Gas and Liquid Fuel Firing	СО	-	9.2
		VOC	-	0.9
		РМ	-	1.9
		PM <sub>10</sub>	-	1.9
		PM <sub>2.5</sub>	-	1.9
		SO <sub>2</sub>	-	0.8

TC3	Test Cell 3	NO <sub>x</sub>	80.0	-
	Gas Fuel Firing	СО	84.8	-
		VOC	13.5	-
		РМ	2.5	-
		PM <sub>10</sub>	2.5	-
		PM <sub>2.5</sub>	2.5	-
		SO <sub>2</sub>	1.1	-
тсз	Test Cell 3	NO <sub>x</sub>	120.0	-
	Liquid Fuel Firing	СО	45.6	-
		VOC	7.2	-
		РМ	15.7	-
		PM <sub>10</sub>	15.7	-
		PM <sub>2.5</sub>	15.7	-
		SO <sub>2</sub>	4.8	-
TC3	Test Cell 3 – Annual Emission Rates	NO <sub>x</sub>	-	35.9
	Gas and Liquid Fuel Firing	СО	-	19.4
		VOC	-	1.8
		РМ	-	10.7
		PM <sub>10</sub>	-	10.7
		PM <sub>2.5</sub>	-	10.7
		SO <sub>2</sub>	-	2.7
TC4	Test Cell 4	NO <sub>x</sub>	106.9	-
	Gas Fuel Firing	СО	84.8	-
		voc	46.6	-
		РМ	5.3	-
		PM <sub>10</sub>	5.3	-
		PM <sub>2.5</sub>	5.3	-

		SO <sub>2</sub>	2.0	_
TC4	Test Cell 4			
104	Liquid Fuel Firing	NO <sub>x</sub>	181.5	-
		СО	41.3	-
		voc	14.3	-
		РМ	15.7	-
		PM <sub>10</sub>	15.7	-
		PM <sub>2.5</sub>	15.7	-
		SO <sub>2</sub>	7.5	-
TC4	Test Cell 4 Gas and Liquid Fuel Firing	NO <sub>x</sub>	-	100.2
		со	-	27.7
		voc	-	9.4
		РМ	-	10.7
		PM <sub>10</sub>	-	10.7
		PM <sub>2.5</sub>	-	10.7
		SO <sub>2</sub>	-	2.9
TC5	Test Cell 5	NO <sub>x</sub>	192.8	-
	Gas Fuel Firing	со	30.0	-
		voc	8.8	-
		РМ	8.5	-
		PM <sub>10</sub>	8.5	-
		PM <sub>2.5</sub>	8.5	-
		SO <sub>2</sub>	3.8	-

TC5	Test Cell 5	NO <sub>x</sub>	338.8	-
	Liquid Fuel Firing	СО	30.0	-
		VOC	8.8	-
		РМ	12.1	-
		PM <sub>10</sub>	12.1	-
		PM <sub>2.5</sub>	12.1	-
		SO <sub>2</sub>	14.1	-
TC5	Test Cell 5 – Annual Emission Rates	NO <sub>x</sub>	-	74.53
	Gas and Liquid Fuel Firing	СО	-	25.48
		VOC	-	5.81
		PM	-	7.49
		PM <sub>10</sub>	-	7.49
		PM <sub>2.5</sub>	-	7.49
		SO <sub>2</sub>	-	4.15
TC6	Test Cell 6	NO <sub>x</sub>	298.43	-
	Gas Fuel Firing	СО	26.00	-
		VOC	1.49	-
		PM	4.21	-
		PM <sub>10</sub>	4.21	-
		PM <sub>2.5</sub>	4.21	-
		SO <sub>2</sub>	3.04	-
TC6	Test Cell 6	NO <sub>x</sub>	409.53	-
	Liquid Fuel Firing	СО	26.29	-
		VOC	7.50	-
		PM	13.60	-
		PM <sub>10</sub>	13.60	-

1	1			
		PM <sub>2.5</sub>	13.60	-
		SO <sub>2</sub>	0.35	-
TC6	Test Cell 6 – Annual Emission Rates	NO <sub>x</sub>	-	39.78
	Gas and Liquid Fuel Firing	со	-	49.46
		VOC	-	4.03
		РМ	-	9.88
		PM <sub>10</sub>	-	9.88
		PM <sub>2.5</sub>	-	9.88
		SO <sub>2</sub>	-	5.24
TC7	Test Cell 7	NO <sub>x</sub>	659.34	-
	Gas Fuel Firing	СО	469.11	-
		VOC	10.69	-
		PM	3.66	-
		PM <sub>10</sub>	3.66	-
		PM <sub>2.5</sub>	3.66	-
		SO <sub>2</sub>	4.92	-
TC7	Test Cell 7	NO <sub>x</sub>	989.01	-
	Liquid Fuel Firing	СО	470.11	-
		VOC	10.72	-
		РМ	8.22	-
		PM <sub>10</sub>	8.22	-
		PM <sub>2.5</sub>	8.22	-
l		SO <sub>2</sub>	0.60	-

# Emission Sources - Maximum Allowable Emission Rates

Test Cell 7 – Annual Emission Rates  Gas and Liquid	-	24.31		
	со	-	6.04	
	voc	-	0.46	
Fuel Firing		РМ	-	1.53
		PM <sub>10</sub>	-	1.53
	PM <sub>2.5</sub>	-	1.53	
		SO <sub>2</sub>	-	1.88

Emission Sources - Maximum Allowable Emission Rates

49.46				
		со	-	5.84
		VOC	-	0.46
		PM	-	1.72
		PM <sub>10</sub>	-	1.72
		PM <sub>2.5</sub>	-	1.72
		SO <sub>2</sub>	-	1.71
TC7	Test Cell 7 – Annual Emission Rates	NO <sub>x</sub>	-	58.15
	Gas and Liquid Fuel Firing – 2028 (6)	со	-	5.74
		VOC	-	0.47
		PM	-	1.72
		PM <sub>10</sub>	-	1.72
		PM <sub>2.5</sub>	-	1.72
		SO <sub>2</sub>	-	1.67

# Emission Sources - Maximum Allowable Emission Rates

Test Cell 7 – Annual Emission Rates (7)	-	72.69		
	со	-	7.17	
Gas and Liquid		voc	-	0.59
Fuel Firing - 2029 and thereafter	РМ	-	2.15	
	PM <sub>10</sub>	-	2.15	
		PM <sub>2.5</sub>	-	2.15
		SO <sub>2</sub>	-	2.09

Emission Sources - Maximum Allowable Emission Rates

0.3				
F2	TC2 Process Fugitives (8)	voc	0.3	0.1
F3	TC6 Process Fugitives (8)	voc	0.01	0.01
S1	Oil/Water Separator	voc	0.1	0.3
S2	TC6 Oil/Water Separator	voc	0.01	0.05
S3	TC7 Oil/Water Separator	voc	0.01	0.05
CT1	Cooling Tower	voc	0.08	0.37
		РМ	0.60	2.63
		PM <sub>10</sub>	0.15	0.66
		PM <sub>2.5</sub>	0.01	0.03
		$Cl_2$	<0.01	<0.01
СТ3	Cooling Tower	VOC	0.1	0.4
		РМ	0.60	2.63
		PM <sub>10</sub>	0.15	0.66
		PM <sub>2.5</sub>	0.01	0.03
		$Cl_2$	<0.01	<0.01
CT4	TC6 Cooling Tower	VOC	0.08	0.37
		РМ	0.06	0.26
		PM <sub>10</sub>	0.02	0.09
		PM <sub>2.5</sub>	<0.01	<0.01
		$Cl_2$	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

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### Emission Sources - Maximum Allowable Emission Rates

0.37			
	РМ	0.06	0.26
	PM <sub>10</sub>	0.02	0.07
	PM <sub>2.5</sub>	<0.01	<0.01
	Cl <sub>2</sub>	<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)  $NO_x$  - total oxides of nitrogen

CO - carbon monoxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1 PM - total particulate matter, suspended in the atmosphere, including  $PM_{10}$  and  $PM_{2.5}$  PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including  $PM_{2.5}$ 

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

 $SO_2$  - sulfur dioxide  $Cl_2$  - chlorine

- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rates for EPN: TC7 are effective for calendar year 2027, and/or for the subsequent calendar year following approval from TCEQ EBT for the NOx emission credits
- (6) Emission rates for EPN: TC7 are effective for calendar year 2028, and/or for the subsequent calendar year following approval from TCEQ EBT for the NOx emission credits
- (7) Emission rates for EPN: TC7 are effective for calendar year 2029 and thereafter, following approval from TCEQ EBT for the NOx emission credits.
- (8) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

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Date:	February 23, 2024	
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