Permit Numbers 70898 and PSDTX410M3

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)	
BA-1100	West Pre-coking Heater	СО	1.22	5.18	
		NO _X	2.05	8.69	
		PM	0.25	1.04	
		PM ₁₀	0.25	1.04	
		PM _{2.5}	0.25	1.04	
		SO ₂	0.68	2.88	
		VOC	0.18	0.76	
BA-2601	Pre-Filtration Heater	СО	1.76	6.73	
		NO _X	1.14	4.37	
		PM	0.33	1.25	
		PM ₁₀	0.33	1.25	
		PM _{2.5}	0.33	1.25	
		SO ₂	0.90	3.45	
		VOC	0.24	0.91	
BF-1622	Auxiliary Boiler	СО	1.26	4.33	
		NO _X	1.24	4.27	
		PM	0.25	0.87	
		PM ₁₀	0.25	0.87	
		PM _{2.5}	0.25	0.87	
		SO ₂	0.70	2.41	
		VOC	0.18	0.63	
BK-1401BX	Rotary Kiln Auxiliary Drive	СО	0.23	1.01	
		NO _x	1.07	4.68	
		PM	0.08	0.33	
		PM ₁₀	0.08	0.33	

1	1		ı	1
		PM _{2.5}	0.08	0.33
		SO ₂	0.07	0.31
		VOC	0.09	0.38
CA-1101X	Heaters BA-1001, BA-1101, & BA-1202 Common Stack (6)	СО	4.58	17.05
	BA-1202 Common Stack (0)	NO _x (PSD)	8.30	30.93
		РМ	0.92	3.44
		PM ₁₀	0.92	3.44
		PM _{2.5}	0.92	3.44
		SO ₂ (PSD)	2.54	9.48
		VOC	0.67	2.49
CA-1102	Heaters BA-1102 & BA-1103	СО	2.37	8.69
	Common Stack	NO _X	3.70	13.62
		РМ	0.66	2.43
		PM ₁₀	0.66	2.43
		PM _{2.5}	0.66	2.43
		SO ₂	1.81	6.71
		VOC	0.48	1.76
CA-1621X	Calciner Kiln Common Stack (6)	СО	50.49	61.94
		NO _x (PSD)	86.44	292.99
		РМ	8.23	36.04
		PM ₁₀ (PSD)	2.88	12.61
		PM _{2.5}	0.44	1.91
		SO ₂ (PSD)	280.64	834.41
	1	1	1	1

		VOC	1.05	2.31
CB-1701	Plant Flare (6)	CO	186.66	118.67
		H ₂ S	<0.01	<0.01
		NO _x (PSD)	25.86	16.52
		SO ₂ (PSD)	10.95	6.97
		VOC	89.15	56.65
CB-1750	Naphtha Barge Dock Flare	СО	6.70	1.08
		H ₂ S	0.09	<0.01
		NO _x	1.96	0.49
		SO ₂	8.91	0.38
		VOC	10.95	0.40
DC-1101X	Coke Drum De-Heading	VOC	57.00	13.94
EF-1620	South Cooling Tower (5)	PM	2.85	12.48
		PM_{10}	1.24	5.45
		PM _{2.5}	0.01	0.02
		VOC	<0.01	0.01
EF-1621	North Cooling Tower (5)	PM	11.74	51.43
		PM_{10}	5.12	22.44
		PM _{2.5}	0.02	0.10
		VOC	0.01	0.03
EK-1401BK	Cooler Auxiliary Diesel Drive	СО	0.04	0.17
		NO _X	0.18	0.77
		PM	0.01	0.05
		PM ₁₀	0.01	0.05
		PM _{2.5}	0.01	0.05
		SO ₂	0.01	0.05
		VOC	0.01	0.06
FA-1401	Dedusting Oil Tank	VOC	<0.01	<0.01

FB-1103	Bulk Antifoam Tank	VOC	0.16	0.09
FB-1401	Sour Water Tank	H₂S	<0.01	<0.01
		VOC	0.02	<0.01
FB-1501	Feedstock Tank 1501	H ₂ S	<0.01	(7)
		VOC	<0.01	(7)
FB-1502	Feedstock Tank 1502	H ₂ S	<0.01	(7)
		VOC	<0.01	(7)
=B-1503	Feedstock Tank 1503	H ₂ S	<0.01	(7)
		VOC	<0.01	(7)
=B-1504	Feedstock Tank 1504	H ₂ S	<0.01	(7)
		VOC	<0.01	(7)
FB-1505	Feedstock Blend Tank 1505	H ₂ S	<0.01	<0.01
		VOC	<0.01	<0.01
FB-1506	Feedstock Blend Tank 1506	H ₂ S	<0.01	<0.01
		VOC	<0.01	<0.01
FB-1507	Naphtha Tank 1507	H ₂ S	<0.01	0.01
		VOC	0.19	0.85
FB-1508	Feedstock Tank 1508	H ₂ S	<0.01	(7)
		VOC	<0.01	(7)
FB-1509	Slop Oil Tank 1509	H ₂ S	<0.01	0.01
		VOC	0.29	1.25
=B-1510	Feedstock Tank 1510	H ₂ S	<0.01	(7)
		VOC	<0.01	(7)
FB-1511	Feedstock Tank 1511	H ₂ S	<0.01	(7)
		VOC	<0.01	(7)
=B-1512	Gas Oil Tank 1512	H ₂ S	<0.01	<0.01
		VOC	0.04	0.01
FB-1603X	Firewater Pump Diesel Tank	VOC	0.01	<0.01
=B-1620	North Cooling Tower Sulfuric	H ₂ SO ₄	<0.01	<0.01

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Emission Sources - Maximum Allowable Emission Rates

FB-1401	Sour Water Tank	H₂S	<0.01	<0.01

		VOC	0.02	<0.01
FB-1501	Feedstock Tank 1501	H₂S	<0.01	(7)
		VOC	<0.01	(7)
FB-1502	Feedstock Tank 1502	H ₂ S	<0.01	(7)
		VOC	<0.01	(7)
FB-1503	Feedstock Tank 1503	H ₂ S	<0.01	(7)
		VOC	<0.01	(7)
FB-1504	Feedstock Tank 1504	H₂S	<0.01	(7)
		VOC	<0.01	(7)
FB-1505	Feedstock Blend Tank 1505	H₂S	<0.01	<0.01
		VOC	<0.01	<0.01
FB-1506	Feedstock Blend Tank 1506	H₂S	<0.01	<0.01
		VOC	<0.01	<0.01
FB-1507	Naphtha Tank 1507	H ₂ S	<0.01	0.01
		VOC	0.19	0.85
FB-1508	Feedstock Tank 1508	H₂S	<0.01	(7)
		VOC	<0.01	(7)
FB-1509	Slop Oil Tank 1509	H ₂ S	<0.01	0.01
		VOC	0.29	1.25
FB-1510	Feedstock Tank 1510	H ₂ S	<0.01	(7)
		VOC	<0.01	(7)
FB-1511	Feedstock Tank 1511	H ₂ S	<0.01	(7)
		VOC	<0.01	(7)
FB-1512	Gas Oil Tank 1512	H₂S	<0.01	<0.01
		VOC	0.04	0.01
FB-1603X	Firewater Pump Diesel Tank	VOC	0.01	<0.01
FB-1620	North Cooling Tower Sulfuric Acid Storage Tank	H ₂ SO ₄	<0.01	<0.01
FB-1621	North Cooling Tower Hydrochloric Acid Storage Tank	HCI	0.02	<0.01
FB-1622	Emergency Generator Diesel	VOC	0.02	<0.01

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Emission Sources - Maximum Allowable Emission Rates

	Tank			
FB-1670	Gasoline Tank	voc	16.85	0.38

FB-1671	Diesel Tank	VOC	0.04	<0.01
FB-TKFM	Feedstock Tank Farm Annual	H ₂ S		<0.01
	Emissions Cap (7)	VOC		0.08
FD-1361	Barge Loading Dust Collector	PM	0.82	3.28
		PM ₁₀	0.29	1.15
		PM _{2.5}	0.04	0.17
FUG-PM-1A	Green Coke Handling and Storage (5)	PM	6.32	8.15
	Storage (5)	PM ₁₀	2.99	3.85
		PM _{2.5}	0.54	0.74
FUG-PM-1B	Green Coke Pad	PM	0.55	2.41
		PM ₁₀	0.28	1.20
		PM _{2.5}	0.28	1.20
FUG-PM-2A	Cooler/Emergency Storage Silo	PM	1.73	2.01
		PM ₁₀	0.82	0.95
		PM _{2.5}	0.15	0.17
FUG-PM-2B	Calcined Coke Silo Conveyors	PM	1.33	3.22
		PM ₁₀	0.63	1.53
		PM _{2.5}	0.14	0.27
	Calcined Coke Discharging	PM	0.13	0.01
	Conveyor	PM ₁₀	0.06	<0.01
		PM _{2.5}	0.06	<0.01
FUG-PM-2D	Calcined Coke Truck and Railcar	PM	0.51	0.93
	Loading	PM ₁₀	0.24	0.44
		PM _{2.5}	0.05	0.09
FUG-PM-2E	Calcined Coke Barge Dock	PM	0.10	0.13
		PM ₁₀	0.05	0.06
		PM _{2.5}	0.01	0.02
FUG-PM-2F	Calcined Coke West Bag Loading Station	PM	0.07	0.04

I		PM ₁₀	0.03	0.02
		PM _{2.5}	0.01	0.01
FUG-VOC-1	Equipment Fugitives (5)	H₂S	<0.01	0.01
		VOC	8.67	37.98
FUG-VOC-2	Wastewater Treatment Station (5)	VOC	0.63	2.91
FUG-VOC-3	Green Coke Pit	СО	0.01	0.01
		H ₂ S	0.25	0.06
		VOC	0.03	0.01
FRAC-1	Mott Filter Frac Tank 1	H ₂ S	<0.01	<0.01
		VOC	<0.01	<0.01
FRAC-2	Mott Filter Frac Tank 2	H ₂ S	<0.01	<0.01
		VOC	<0.01	<0.01
FRAC-3 Mott Filte	Mott Filter Frac Tank 3	H ₂ S	<0.01	<0.01
		VOC	<0.01	<0.01
	Firewater Pump Diesel	СО	1.98	0.04
	Emergency Engine	NO _X	9.18	0.18
		PM	0.65	0.01
		PM ₁₀	0.65	0.01
		PM _{2.5}	0.65	0.01
		SO ₂	0.60	0.01
		VOC	0.75	0.01
GE-1622	Emergency Generator (8)	СО	9.89	0.99
		NO _X	37.23	3.72
		PM	1.16	0.12
		PM ₁₀	0.67	0.07
		PM _{2.5}	0.65	0.06
		SO ₂	0.59	0.06
		VOC	0.95	0.10

PA-1504	Naphtha Truck Loading	H ₂ S	0.02	<0.01
		VOC	2.43	0.06
PA-1505A/B	Gas Oil Barge Dock	H ₂ S	<0.01	<0.01
		VOC	0.04	<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.

(2) Specific point source name. For fugitive (3) CO - carbon monoxide

 $\begin{array}{lll} HCI & - & \text{hydrogen chloride} \\ H_2S & - & \text{hydrogen sulfide} \\ H_2SO_4 & - & \text{sulfuric acid} \end{array}$

NO_x - total oxides of nitrogen

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

SO₂ - sulfur dioxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

- (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) PSD-TX-410M3 Emission sources for NO_X, SO₂, and PM.
- (7) Total annual H₂S and VOC emissions from the feedstock tanks identified as FB-1501, FB-1502, FB-1503, FB-1504, FB-1508, FB-1510, and FB-1511 may not exceed the annual rates for EPN FB-TKFM.
- (8) This source is being listed for reference only. It will remain under its Permit-By-Rule and/or Standard Permit.

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