#### Permit Numbers 1867A and PSDTX1032

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. 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)	<u>Emissio</u> lb/hr	n Rates * TPY**	
1	Plant 1 No. 1 and No. 2 Dryer Purge Stack (7)	$PM_{10}$ $NO_x$ $VOC$ $CO$ $SO_2$ $H_2S$ $CS_2$ $COS$	0.82 1.58 0.56 3.39 78.43 0.40 0.40 0.13	3.37 6.49 2.30 13.94 322.06 1.64 1.64 0.55	
2	Plant 1 Secondary Filter Stack	PM	1.18	4.86	
3	Plant 1 No. 3 and No. 4 Dryer Purge Stack (7)	$\begin{array}{c} PM_{10} \\ NO_{x} \\ VOC \\ CO \\ SO_{2} \\ H_{2}S \\ CS_{2} \\ COS \end{array}$	0.87 1.58 0.56 3.39 78.43 0.40 0.40 0.13	3.56 6.49 2.30 13.94 322.06 1.64 1.64 0.55	
103	Plant 1 Pulse Filter No. 1 Vent	PM	0.14	0.59	
104	Plant 1 Pulse Filter No. 2 Vent	PM	0.14	0.59	
105	Plant 1 Pulse Filter No. 3 Vent	РМ	0.14	0.59	

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# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

107	Plant 1 Pulse Filter No. 5 Vent	PM	0.14	0.59
74	Plant 2 No. 1, No. 2, and No. 3 Dryer Purge Stack (7)	$\begin{array}{l} PM_{10} \\ NO_{x} \\ VOC \\ CO \\ SO_{2} \\ H_{2}S \\ CS_{2} \\ COS \end{array}$	0.88 1.73 0.56 3.72 78.43 0.40 0.40 0.13	3.58 7.11 2.30 15.27 322.06 1.64 1.64 0.55
76	Plant 2 Secondary Filter Stack	PM	1.37	5.61
78	Plant 2 No. 4, No. 5, and No. 6 Dryer Purge Stack (7)	$\begin{array}{c} PM_{10} \\ NO_{x} \\ VOC \\ CO \\ SO_{2} \\ H_{2}S \\ CS_{2} \\ COS \end{array}$	0.98 1.73 0.56 3.72 78.43 0.40 0.40 0.13	4.02 7.11 2.30 15.27 322.06 1.64 1.64 0.55
108	Plant 2 Pulse Filter No. 1 Vent	PM	0.14	0.59
109	Plant 2 Pulse Filter No. 2 Vent	PM	0.14	0.59
110	Plant 2 Pulse Filter No. 3 Vent	PM	0.14	0.59
111	Plant 2 Pulse Filter No. 4 Vent	PM	0.14	0.59
112	Plant 2 Pulse Filter No. 5 Vent	PM	0.14	0.59

119	Boiler Stack (Boilers 1 and 2 Common Stack) (4)	$NO_x$ VOC CO $PM_{10}$	222.44 21.03 477.57 38.75	  
121	Plant 1 Dryer Stack (7)	$NO_x$ VOC CO $PM_{10}$	36.36 4.17 78.06 6.34	149.30 17.10 320.53 26.01
122	Plant 2 Dryer Stack (7)	$NO_x$ VOC CO $PM_{10}$	39.84 4.52 85.52 6.94	163.59 18.55 351.20 28.50
Flare-1	Plant 1 Unit 1 Primary Bag Filter Flare (4) (6)	NO <sub>x</sub> VOC CO PM	11.55 12.11 156.98 15.47	  
Flare-2	Plant 1 Unit 2 Primary Bag Filter Flare (4) (6)	NO <sub>x</sub> VOC CO PM	13.86 14.53 188.38 18.56	  
Flare-3	Plant 2 Unit 3 Primary Bag Filter Flare (4) (6)	NO <sub>x</sub> VOC CO PM	15.71 16.47 213.49 21.04	
Flare-4	Plant 2 Unit 4 Primary Bag Filter Flare (4) (6)	NO <sub>x</sub> VOC CO PM/PM <sub>10</sub> /PM <sub>2.5</sub>	13.86 14.53 188.38 18.56	  
119/Flare-1/	Cap for Boiler Stack and	NO <sub>x</sub>		913.41

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# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Flare-2/ Flare-3/Flare-4	Flares (4) (6)	VOC CO PM/PM <sub>10</sub>	  	96.70 1961.03 164.65
119/121/122/ Flare-1/ Flare-2/ Flare-3/Flare-4	Cap for Boiler Stack, Dryers, and Flares for Combined Sulfur Compounds (5) (7)	SO <sub>2</sub> H <sub>2</sub> S CS <sub>2</sub> COS	3607.88 18.42 18.42 6.14	14814.84 75.62 75.62 25.21
C-1	Emergency Generator Engine 1	NO <sub>x</sub> VOC CO	5.57 0.07 3.87	2.44 0.03 1.70
15	No. 4 Oil Preheater Stack	$PM_{10}$ CO $NO_x$ VOC $SO_2$	0.01 0.08 0.09 0.01 0.01	0.03 0.40 0.40 0.03 0.01
19	No. 5 Oil Preheater Stack	PM <sub>10</sub> CO NO <sub>x</sub> VOC	0.01 0.08 0.09 0.01	0.03 0.40 0.40 0.03
21	No. 1 Oil Preheater Stack	$PM_{10}$ $CO$ $NO_x$ $VOC$ $SO_2$	0.01 0.08 0.09 0.01 0.01	0.03 0.40 0.40 0.03 0.01
123	Railcar Unloading and Rerun System	PM <sub>10</sub>	4.80	0.60
31	Carbon Black Oil Tank 1	VOC	0.01	0.02
32	Carbon Black Oil Tank 2	VOC	0.01	0.02
33	Carbon Black Oil Tank 3	VOC	0.01	0.02
34	Carbon Black Oil Tank 4	VOC	0.01	0.02

- (1) Emission point identification either specific equipment designation or emission point number (EPN) from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) CS<sub>2</sub> carbon disulfide
  - COS carbonyl sulfide
  - VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1 (includes CS<sub>2</sub> and COS)
  - NO<sub>x</sub> total oxides of nitrogen
  - SO<sub>2</sub> sulfur dioxide
  - PM particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>
  - PM<sub>10</sub> particulate matter equal to or less than 10 microns in diameter
  - PM<sub>2.5</sub> particulate matter equal to or less than 2.5 microns in diameter
  - CO carbon monoxide
  - H<sub>2</sub>S hydrogen sulfide
- (4) Annual emissions from the boiler stack and each flare must also comply with the annual cap of emissions for these sources. **(1/06)**
- (5) These emissions are the reduced sulfur compounds associated with combustion of the tail-gas. The combined reduced sulfur compounds from EPNs 119, 121, 122, Flare-1, Flare-2, Flare-3, and Flare-4 shall not exceed these rates. As previously authorized, the Dryers (EPNs 121 and 122) may burn up to 40 percent of the tail gas that flows to EPN 119 in addition to the natural gas-based emissions. The routed tail-gas may be burned in either Plant 1 or Plant 2 or both. (1/06)
- (6) The flares are authorized only as backup control devices to the boilers during planned shutdown, maintenance, and startup of the steam turbine, boilers and tail-gas fans as authorized by the special conditions. Emission rates are based on and the facilities are limited by 840 hours per year at each flare. (9/10)
- (7) Emission values for Dryer Purge Stacks (EPNs 1, 3, 74, and 78) have been altered to reflect increases in emissions that correspond with decreases in emissions in EPNs 121, 122, and 119/121/122 Flares due to rerouting of hot exhaust gases. (1/08)

*	Emission	rates	except	for	flares	are	based	on	and	the	facilities	are	limited	by	the	following
	maximum	n opera	iting sch	edu	ıle:											

Hrs/day[	Days/week <sub>.</sub>	Weeks/year c	or <u>8,760</u>	_Hrs/year
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\*\* Compliance with annual emission limits is based on a rolling 12-month period.

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Dated September 23, 2010