### 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, 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. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
(=)		(6)	lbs/hour	TPY (8)
1	Plant 1 No. 1 and	PM <sub>10</sub>	0.82	3.37
	No. 2 Dryer Purge	NO <sub>x</sub>	1.58	6.49
	Stack (7)	VOC	0.56	2.30
		СО	3.39	13.94
		SO <sub>2</sub>	78.43	322.06
		H <sub>2</sub> S	0.40	1.64
		CS <sub>2</sub>	0.40	1.64
		COS	0.13	0.55
2	Plant 1 Secondary Filter Stack	PM	1.18	4.86
3	Plant 1 No. 3 and	PM <sub>10</sub>	0.87	3.56
	No. 4 Dryer Purge	NO <sub>x</sub>	1.58	6.49
	Stack (7)	VOC	0.56	2.30
		СО	3.39	13.94
		SO <sub>2</sub>	78.43	322.06
		H <sub>2</sub> S	0.40	1.64
		CS <sub>2</sub>	0.40	1.64
		COS	0.13	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
106	Plant 1 Pulse Filter No. 3 Vent	PM	0.14	0.59
105	Plant 1 Pulse Filter No. 4 Vent	PM	0.14	0.59
107	Plant 1 Pulse Filter No. 5 Vent	PM	0.14	0.59

74	Plant 2 No. 1, No.	PM <sub>10</sub>	0.88	3.58
	2, and No. 3	NO <sub>x</sub>	1.73	7.11
	Dryer Purge	VOC	0.56	2.30
	Stack (7)	CO	3.72	15.27
		SO <sub>2</sub>	78.43	322.06
		H <sub>2</sub> S	0.40	1.64
		CS <sub>2</sub>	0.40	1.64
		COS	0.13	0.55
	Plant 2			
76	Secondary Filter Stack	PM	1.37	5.61
78	Plant 2 No. 4, No.	PM <sub>10</sub>	0.98	4.02
	5, and No. 6	NO <sub>x</sub>	1.73	7.11
	Dryer Purge	VOC	0.56	2.30
	Stack (7)	CO	3.72	15.27
		SO <sub>2</sub>	78.43	322.06
		H <sub>2</sub> S	0.40	1.64
		CS <sub>2</sub>	0.40	1.64
		COS	0.13	0.55
108	Plant 2 Pulse Filter No. 1 Vent	РМ	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	РМ	0.14	0.59
111	Plant 2 Pulse Filter No. 4 Vent	РМ	0.14	0.59
112	Plant 2 Pulse Filter No. 5 Vent	РМ	0.14	0.59
119	Boiler Stack	NO <sub>x</sub>	222.44	
	(Boilers 1 and 2	VOC	21.03	
	common stack)	CO	477.57	
	(4)	PM <sub>10</sub>	38.75	
121	Plant 1 Dryer	NO <sub>x</sub>	36.36	149.30
	Stack (7)	VOC	4.17	17.10
		CO	78.06	320.53
		PM <sub>10</sub>	6.34	26.01
122	Plant 2 Dryer	NO <sub>x</sub>	39.84	163.59

	Stack (7)	VOC	4.52	18.55
		СО	85.52	351.20
		PM <sub>10</sub>	6.94	28.50
119/Flare-1/Flare-	Cap for Boiler	NO <sub>x</sub>		913.41
2/Flare-3/Flare-4	Stack and Flares	VOC		96.70
	(4) (6)	СО		1961.03
		PM		164.65
		PM <sub>10</sub>		164.65
119/121/122/ Flare-	Cap for Boiler	SO <sub>2</sub>	3607.88	14814.84
1/Flare-2/Flare-	Stack, Dryers,	H₂S	18.42	75.62
3/Flare-4	and Flares for	CS <sub>2</sub>	18.42	75.62
	Combined Sulfur Compounds (5) (7)	cos	6.14	25.21
C-1	Emergency	NO <sub>x</sub>	5.57	2.44
	Generator Engine	VOC	0.07	0.03
	1	СО	3.87	1.70
15	No. 4 Oil	PM <sub>10</sub>	0.01	0.03
	Preheater Stack	СО	0.08	0.40
		NO <sub>x</sub>	0.09	0.40
		VOC	0.01	0.03
		SO <sub>2</sub>	0.01	0.01
19	No. 5 Oil	PM <sub>10</sub>	0.01	0.03
	Preheater Stack	CO	0.08	0.40
		NO <sub>x</sub>	0.09	0.40
		VOC	0.01	0.03
21	No. 1 Oil Preheater Stack	PM <sub>10</sub>	0.01	0.03
		CO	0.08	0.40
		NO <sub>x</sub>	0.09	0.40
		VOC	0.01	0.03
		SO <sub>2</sub>	0.01	0.01
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

SAMPLING FUGITI	VE EMISSIONS			
CBO SAMPLE	Feedstock (carbon black oil) sampling.	VOC	0.01	0.01
BLACK SAMPLE	In-situ carbon	PM	0.02	0.02
	black sampling.	PM <sub>10</sub>	0.01	0.01
MAINTENANCE, S	TARTUP, AND SHUT	DOWN (MSS) EMISS	SIONS	
Flare-1	Plant 1 Unit 1	NO <sub>x</sub>	11.55	
	Primary Bag Filter	VOC	12.11	
	Flare (4) (6)	CO	156.98	
		PM <sub>10</sub>	15.47	
Flare-2	Plant 1 Unit 2	NO <sub>x</sub>	13.86	
	Primary Bag Filter	VOC	14.53	
	Flare (4) (6)	CO	188.38	
		PM	18.56	
Flare-3	Plant 2 Unit 3	NO <sub>x</sub>	15.71	
	Primary Bag Filter Flare (4) (6)	VOC	16.47	
		CO	213.49	
		PM	21.04	
Flare-4	Plant 2 Unit 4 Primary Bag Filter Flare (4) (6)	NO <sub>x</sub>	13.86	
		VOC	14.53	
		CO	188.38	
		PM	18.56	
		PM <sub>10</sub>	18.56	
		PM <sub>2.5</sub>	18.56	
RVS	Cap for the 12 Small Reactor Vents	NO <sub>x</sub>	4.20	3.29
		CO	3.53	2.77
		VOC	0.23	0.20
		PM <sub>10</sub>	0.32	0.25
		PM <sub>2.5</sub>	0.32	0.25
		SO <sub>2</sub>	0.03	0.02
RVL	Cap for the 3 Large Reactor Vents	NO <sub>x</sub>	2.50	4.04
		CO	2.10	3.40
		VOC	0.14	0.23
		PM <sub>10</sub>	0.19	0.31
		PM <sub>2.5</sub>	0.19	0.31

		SO <sub>2</sub>	0.02	0.03
119	Boiler Stack	NO <sub>x</sub>	6.50	0.67
	(Boilers 1 and 2	CO	5.46	0.56
	common stack)	VOC	0.36	0.04
	MSS Emissions	PM <sub>10</sub>	0.50	0.05
	(4)	PM <sub>2.5</sub>	0.50	0.05
		SO <sub>2</sub>	0.04	0.01
121/122	Cap for Plants 1	NO <sub>x</sub>	3.50	1.02
	&2 Dryer Stacks	CO	3.00	0.86
	MSS Emissions	VOC	0.20	0.06
	(7)	PM <sub>10</sub>	0.30	0.08
		PM <sub>2.5</sub>	0.30	0.08
		SO <sub>2</sub>	0.10	0.01
MSS FUGITIVE EM	MISSIONS			
CanMSS	Solvent and Aerosol Can Usage	VOC	6.40	1.40
FEEDTIP	Feed tip changeouts.	VOC	0.01	0.10
ORIFICE	Orifice changeout	VOC	0.01	0.02
REFRACTORY	Recasting furnace	PM	0.03	0.01
	refractory.	PM <sub>10</sub>	0.02	0.01

- (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) 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
  - CS<sub>2</sub> carbon disulfide
  - COS carbonyl 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. (8/10)
- (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)
- (8) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

Dated: July 28, 2011