EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 1867A/PSD-TX-1032

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)	Emission Rates * lb/hr	TPY**
1	No. 1 and No. 2 Dryer Purge Stack	PM	0.54	2.24
2	Secondary Filter Stack	PM	1.18	4.86
3	No. 3 and No. 4 Dryer Purge Stack	PM	0.59	2.43
103	Pulse Filter No. 1 Vent	PM	0.14	0.59
104	Pulse Filter No. 2 Vent	PM	0.14	0.59
105	Pulse Filter No. 3 Vent	PM	0.14	0.59
106	Pulse Filter No. 4 Vent	PM	0.14	0.59
107	Pulse Filter No. 5 Vent	PM	0.14	0.59
108	Pulse Filter No. 1 Vent	PM	0.14	0.59
109	Pulse Filter No. 2 Vent	PM	0.14	0.59
110	Pulse Filter No. 3 Vent	PM	0.14	0.59
111	Pulse Filter No. 4 Vent	PM	0.14	0.59
112	Pulse Filter No. 5 Vent	PM	0.14	0.59
74	No. 1 and No. 2 Dryer Purge Stack	PM	0.46	1.87

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
77	No. 3 and No. 4 Dryer Purge Stack	PM	0.23	0.93
78	No. 5 and No. 6 Dryer Purge Stack	PM	0.56	2.31
76	Secondary Filter Stack	PM	1.37	5.61
119	Boiler Stack	PM_{10}	38.75	159.13
		CO	477.57	1961.03
		NO_x	222.44	913.41
		VOC	3.84	15.76
121	Plant 1 Dryer Stack	NO_x	39.52	162.28
		VOC	0.68	2.80
		CO	84.85	348.40
		PM_{10}	6.89	28.27
122	Plant 2 Dryer Stack	NO_x	43.30	177.81
		VOC	0.75	3.07
		CO	92.96	381.74
		PM_{10}	7.54	30.98
119/121/122	Boiler Stack, Plant 1 Dryer, and Plant 2 Dryer (combined Sulfur Compounds) ***	SO_2	3921.61	16103.09
		H_2S	20.02	82.20
		CS_2	20.02	82.20
		COS	6.67	27.40
C-1	Emergency Generator Engine 1	CO	3.87	1.70
		NO_x	5.57	2.44
		VOC	0.07	0.03

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
15	No. 4 Oil Preheater Stack	PM_{10}	0.01	0.03
		CO	0.08	0.40
		NO_x	0.09	0.40
		VOC	0.01	0.03
		SO_2	<0.01	<0.01
19	No. 33 Oil Preheater Stack	PM_{10}	0.01	0.03
		CO	0.08	0.40
		NO_x	0.09	0.40
		VOC	0.01	0.03
21	No. 44 Oil Preheater Stack	PM_{10}	0.01	0.03
		CO	0.08	0.40
		NO_x	0.09	0.40
		VOC	0.01	0.03
		SO_2	<0.01	<0.01
123	Railcar Unloading and Rerun System	PM_{10}	4.8	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

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(1) Emission point identification - either specific equipment designation or emission point number 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
NO_x - total oxides of nitrogen
CO - carbon monoxide
SO_2 - sulfur dioxide
PM - particulate matter, suspended in the atmosphere, including PM_{10}.
PM_{10} - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
H_2S - hydrogen sulfide
CS_2 - carbon disulfide
COS - carbonyl sulfide
(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

_____ Hrs/day____ Days/week ___Weeks/year or 8,760 Hrs/year

** Compliance with annual emission limits is based on a rolling 12-month period.

*** These emissions are the reduced sulfur compounds associated with combustion of the tail gas. The combined reduced sulfur compounds from EPNs 119, 121, and 122 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.

Dated March 29, 2004