#### Permit Number 9423

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**
EPNs Common	to C-Line, D-Line, and E-	Line		
30 and 34	LOG Flare and Elevated Flare (6)	VOC (5) Ethylene Propylene NO <sub>x</sub> CO	81.24 81.24 81.24 11.21 90.64	61.56 61.56 61.56 8.50 68.69
98	D-885 Waste Oil Loading Drum	VOC	1.62	0.06
C-Line EPNs				
39	D-3106 Catalyst Handling Drum	VOC	3.89	0.02
40	D-3504 Stabilizer Addition Drum	$PM_{10}$	4.07	0.03
15	M-522 Pellet Silo Cyclone	VOC PM <sub>10</sub>	(7) 0.01	(7) 0.05
15B	M2542A/B Recycle Pellet Cyclones	VOC PM <sub>10</sub>	(7) 0.02	(7) 0.10
43	M-2522 Pellet Silo Cyclone	VOC PM <sub>10</sub>	(7) 0.01	(7) 0.05
118	M-571 Pellet Bulk Loading Cyclone	VOC PM <sub>10</sub>	(7) 0.03	(7) 0.10

55A	M-500A Flake Bag Filter	VOC PM <sub>10</sub>	(7) 0.02	(7) 0.08
55B	M-500B Flake Bag Filter	VOC PM <sub>10</sub>	(7) 0.02	(7) 0.02
120	M-574 Bag Filter	VOC PM <sub>10</sub>	(7) 0.02	(7) 0.08
122	M-2574 Bag Filter	VOC PM <sub>10</sub>	(7) 0.02	(7) 0.08
123	M-2572 Bag Filter	VOC PM <sub>10</sub>	(7) 0.02	(7) 0.08
109	D-3103 TEAL Seal Pot Drum	VOC	0.04	0.01
110	D-3105 Oil and Grease Mixing	VOC	0.21	0.01
111	D-3107 Hydraulic Oil Drum	VOC	0.04	0.01
112	D-3110A Donor Storage Drum	VOC	1.99	0.01
113	D-3110B Donor Storage Drum	VOC	0.34	0.01
114	TK-3111 Donor Storage Drum	VOC	0.60	0.01
115	T-3501 Scrubber Wastewater	VOC	0.07	0.31
116	Railcar Loading (Flake)	VOC	(7)	(7)
35	Fugitives (4)	VOC NH₃	6.38 0.66	27.93 2.89
143	Mineral Oil Tank	VOC	0.01	0.01
144	Mineral Oil Tank	VOC	0.01	0.01

149	D-3106B Catalyst Handling Drum	VOC	0.64	0.01
D-Line EPNs				
37	D-4106 Catalyst Unloading	VOC	0.82	0.01
38	D-4504 Stabilizer Addition	VOC	0.08	0.01
41	Fugitives (4)	VOC NH₃	4.11 0.11	18.00 0.50
100A	M-4511A Bag Filter (6)	VOC PM <sub>10</sub>	(8) 0.57	(8) 2.38
100B	M-4511B Bag Filter (6)	VOC PM <sub>10</sub>	(8) 0.57	(8) 2.38
101A	M-43500A Flake Bag Filter (6)	VOC PM <sub>10</sub>	(8) 0.28	(8) 1.23
101B	M-42500B Flake Bag Filter (6)	VOC PM <sub>10</sub>	(8) 0.28	(8) 1.23
102	Railcar Loading/VOC Residual (6)	VOC	(8)	(8)
103	D-4105 Oil and Grease Mixing	VOC	0.18	0.01
104	D-4110A Donor Storage Drum	VOC	0.09	0.01
105	D-4110B Donor Storage Drum	VOC	0.59	0.01
106	TK-4111 Donor Storage Drum	VOC	0.55	0.01
107	D-4103 TEAL Seal Pot	VOC	0.01	0.01
108	T-4501 Scrubber Wastewater	VOC	0.23	1.00

152	DLX Flake Transfer	VOC PM <sub>10</sub>	(8) 0.13	(8) 0.56
153	DLX Pellet Silos	VOC	(8)	(8)
154	Railcar Loading DLX	VOC PM <sub>10</sub>	(8) 0.69	(8) 3.00
E-Line EPNs				
50A	Catalyst Handling	VOC	0.28	0.01
50B	Catalyst Handling	VOC	0.28	0.01
51	Stabilizer Addition	VOC	0.01	0.01
14C	Pellet Transfer System	VOC PM <sub>10</sub>	(8) 0.03	(8) 0.08
131	Pellet Transfer System	VOC PM <sub>10</sub>	(9) 0.03	(9) 0.08
124	TEAL Seal Pot	VOC	0.01	0.01
125	Oil and Grease Mixing	VOC	0.01	0.01
126	Hydraulic Oil Drum	VOC	0.01	0.01
127	Donor Storage Drum	VOC	0.09	0.01
128	Donor Storage Drum	VOC	0.09	0.01
129	Donor Storage Drum	VOC	0.16	0.01
130	Scrubber Wastewater	VOC	0.07	0.31
132	Railcar Loading MP2	VOC	(9)	(9)
133	Railcar Loading MP4	VOC	(9)	(9)
135	Additive Surge Drum	VOC	0.01	0.01
52	Fugitives (4)	VOC NH <sub>3</sub>	5.31 0.66	23.24 2.89
147	Additive Storage	VOC	0.06	0.01

148	Additive Storage	VOC	0.02	0.01
99	West Marley Cooling Tower	VOC (4) (5) Ethylene Propylene PM <sub>10</sub> (10)	1.08 1.08 1.08 0.33	4.73 4.73 4.73 1.46
146	East Marley Cooling Tower	VOC (4) (5) Ethylene Propylene PM <sub>10</sub> (10)	0.57 0.57 0.57 0.18	2.49 2.49 2.49 0.77

- (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<sub>x</sub> - total oxides of nitrogen

PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter

CO - carbon monoxide

NH₃ - ammonia

- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) The allowable emission rates for individual VOC species of ethylene and propylene from this EPN are included in the total VOC emission rates.
- (6) Emission rates shown are combined totals for EPN 30 and EPN 34.
- (7) The combined total VOC emissions for all EPNs with this note shall not exceed 1.25 lb/hr and 4.83 tpy.
- (8) The combined total VOC emissions for all EPNs with this note shall not exceed 1.46 lb/hr and 3.50 tpy.
- (9) The combined total VOC emissions for all EPNs with this note shall not exceed 0.31 lb/hr and 0.92 tpy.
- (10) The PM<sub>10</sub> emission rates effective September 1, 2010. Until then, compliance with the cooling tower monitoring requirements in Special Condition No. 16 shall be demonstrated by maintaining a total dissolved solid concentration of 2500 mg/L or less in the cooling water.

*	schedule:	are based on and	the facilities	are limited t	by the following	maximum	operatino
	Hrs/day _	Days/week _	Weeks/	year or <u>8,760</u>	<u>0</u> Hrs/year		
**	Compliance with	annual emission	limits is based	on a rolling	12-month period	l.	

Dated December 22, 2009