

EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

Flexible Permit Number 292

This table lists the maximum allowable emission caps or 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.

Emission	Source	AIR CONTAMINANTS DATA		
		Air	Emission Rates*	
Point No. (1)	Name (2)	Contaminant Name(3)	lb/hr	TPY**
VOC Emission CAP EPNs				
E-DF137	Tank - Cyclohexane			
E-DF138	Tank - Hexane			
E-DF139	Tank - Styrene			
E-DF140	Tank - Styrene			
E-DF142	Tank - TNPP			
E-FDRUM	Drum Dryer Product Fugitives			
E-FCRUMB	Crumb Unit Product Fugitives			
E-FCRUMB3	Crumb Unit 3 Product Fugitives			
E-DFTO	Direct-Fired Oxidizer			Thermal
E-RGTO	Regenerative Oxidizer			Thermal
E-DM801	West Flare			
E-M600R	South Flares			

FLEX-FUG

Total Piping Fugitives

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Emission Point No. (1)	Source Name (2)	AIR CONTAMINANTS DATA		
		Air Contaminant Name(3)	Emission Rates*	
			lb/hr	TPY**
E-PDN500	Crumb Sump			
E-P200	Total Water Drawdowns to 200 Area			
E-P500	Total Water Drawdowns to 500 Area			
E-PBIO	Total Water Drawdowns to BIO			
E-PSTF	Water Drawdowns to South Tank Farm			
E-P951	Water Drawdowns to NEPS			
E-SDDS	South Drum Dryer Sheet Stacks			
E-NDDS	North Drum Dryer Sheet Stacks			
E-SDDH	South Drum Dryer Hood Stacks			
E-NDDH	North Drum Dryer Hood Stacks			
E-NCHOODED	North Crumb Hooded Diversion Vent			

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E-SCHOODED	South Diversion Vent	Crumb	Hooded
E-NSPIRAL	North Diversion Vent	Crumb	Spiral
E-SSPIRAL	South Diversion Vent	Crumb	Spiral
E-NCDWS	North Crumb Dewatering Diversion Vent		

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		Air	<u>Emission Rates*</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	Contaminant <u>Name(3)</u>	<u>lb/hr</u>	<u>TPY**</u>
E-NCDWP	North Crumb Dewatering Press Diversion Vent			
E-SCDWS	South Crum Dewatering Diversion Vent			
E-SCDWP	South Crum Dewatering Press Diversion Vent			
E-TCDWS	Third Crumb Dewatering Diversion Vent			
E-TCDWP	Third Crumb Dewatering Press Diversion Vent			
E-TCHOODED	Third Crumb Hooded Diversion Vent			

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Emission Cap		VOC	427.77	610.52
E-DFTO	Direct-Fired Thermal Oxidizer (4)	NO _x	7.00	20.44
		CO	16.74	73.34
		PM ₁₀	0.61	2.68
		SO ₂	1.20	5.26
E-RGTO	Regenerative Thermal Oxidizer (4)	NO _x	1.52	6.64
		CO	1.01	3.62
		PM ₁₀	0.09	0.33
		SO ₂	0.11	0.47
E-DM801/E-M600R	West and South Flares (4)	NO _x	9.17	1.41
		CO	47.25	7.28
		BF ₃	0.0013	0.000048
		SO ₂	0.02	0.09
		HF	0.0013	0.000048
F-DK801	DK801 Cooling Tower	VOC	1.47	6.44

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		Air Contaminant	Emission Rates*	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name(3)</u>	<u>lb/hr</u>	<u>TPY**</u>
F-DK1801	DK1801 Cooling Tower	VOC	1.05	4.60

ROUTINE START-UP, SHUTDOWN, AND MAINTENANCE (SSM) EMISSIONS

MSS-CAP	MSS Emissions Cap	VOC	140.3	9.48
		NO _x	67.6	8.45
		CO	14.60	1.82
		PM ₁₀	7.66	0.71
		SO ₂	4.47	0.56

- (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 area name or fugitive source name.
- (3)
 - NO_x - total oxides of nitrogen
 - CO - carbon monoxide
 - PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
 - SO₂ - sulfur dioxide
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1 and measured as hexane.
 - BF₃ - boron trifluoride

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- (4) VOC emissions for these sources are included in the Emissions Cap.
- (5) VOC emissions from the flares not included in the Emissions Cap.

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

24 Hrs/day 7 Days/week 52 Weeks/year or _____ Hrs/year

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

Dated August 18, 2009