

# 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.

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			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 Thermal Oxidizer
E-RGTO	Regenerative Thermal Oxidizer
E-DM801	West Flare
E-M600R/E-M600	South Flares
FLEX-FUG	Total Piping Fugitives
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-NCHOOHED	North Crumb Hooded Vent
E-SCHOOHED	South Crumb Hooded Vent
E-NSPIRAL	North Crumb Spiral Vent
E-SSPIRAL	South Crumb Spiral Vent

Emission Cap	VOC	428.34	614.32
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			lb/hr	TPY**
E-DFTO	Direct-Fired Thermal Oxidizer (4)	NO <sub>x</sub>	7.00	17.83
		CO	16.74	73.34
		PM <sub>10</sub>	0.70	3.07
		SO <sub>2</sub>	0.05	0.22
E-RGTO	Regenerative Thermal Oxidizer (4)	NO <sub>x</sub>	1.69	7.40
		CO	1.01	3.62
		PM <sub>10</sub>	0.09	0.37
		SO <sub>2</sub>	0.01	0.02
E-DM801/E-M600R/ E-M600	West and South Flares (4)	NO <sub>x</sub>	18.38	2.58
		CO	36.68	5.16
		BF <sub>3</sub>	0.0013	0.000048
F-DK801	DK801 Cooling Tower	VOC	1.47	6.44
F-DK1801	DK1801 Cooling Tower	VOC	1.05	4.60

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

E-DM801/E-M600R/	West Flare (5) SSM	VOC	13.69	0.31
		NO <sub>x</sub>	0.95	0.01
		CO	4.88	0.11
E-PMaint	Pump Maintenance To Atm.	VOC	0.02	0.01
E-DF559	DF-559 After Purging	VOC	3.20	0.05
E-DDTEST	Drum Dryer during Dump Test	VOC	0.07	0.02
E-DDSTMG	Drum Dryer during Steaming	VOC	15.69	5.44
E-PRVMAINT	Pressure Relief Valves SSM	VOC	2.72	0.01
E-FSMAINT	Filters, Strainers, and Mixers SSM	VOC	8.40	0.56

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
E-OVEN	Oven SSM	VOC	0.01	0.01
		NO <sub>x</sub>	0.02	0.01
		CO	0.01	0.01
		PM <sub>10</sub>	0.01	0.01

- (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<sub>x</sub> - total oxides of nitrogen  
CO - carbon monoxide  
PM<sub>10</sub> - 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.  
SO<sub>2</sub> - sulfur dioxide  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1 and measured as hexane.  
BF<sub>3</sub> - boron trifluoride
- (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 \_\_\_\_\_