

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 810

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		Air Contaminant		<u>Emission Rates *</u>	
	Name (2)	Name (3)	lb/hr	TPY		
06HUT-003	No. 1 PAA Hold-Up Tank		PM ₁₀		0.45	0.5
06FLT-004	No. 1 SR Filter		PM ₁₀		0.45	1.0
			NO _x		0.20	0.5
06FLT-005	No. 2 SR Filter		PM ₁₀		0.45	1.0
			NO _x		0.20	0.5
06CEN-006	No. 1 and No. 2 Refined Centrifuge		PM ₁₀		0.28	0.6
			NO _x		0.10	0.2
06DRY-008	No. 1 Dryer		PM ₁₀		2.00	2.5
06DRY-009	No. 2 Dryer		PM ₁₀		2.00	2.5
06BIN-011	No. 1 Loading Bin		PM ₁₀		0.50	1.5
06TFX-012	Op1 Catalyst Mix Tank (5) (Interim Emission)		VOC		28.00	1.2
06TFX-013	No. 3 TWKA Tank		VOC		6.94	3.9
06TFX-014	No. 2 Cyane Storage Tank		VOC		1.13	4.4
06TFX-015	No. 3 Cyane Storage Tank		VOC		1.13	4.4
06TFL-016	No. 4 Cyane Storage Tank		VOC		1.39	4.5
06CLR-017	No. 1 Fluid Bed Cooler		PM ₁₀		2.00	1.5
06LTR-019	ADBA Truck Loading		VOC		0.01	<0.01
			NO _x		1.00	0.5

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
06FLT-024	No. 3 Crude Filter	PM ₁₀	0.23	0.5
		NO _x	1.00	2.2
06CEN-026	No. 3 and No. 4 Refined Centrifuge	PM ₁₀	0.28	0.6
		NO _x	0.10	0.2
06FLT-027	Purge Filter	NO _x	1.30	2.5
06DRY-028	No. 3 Dryer	PM ₁₀	3.00	4.0
06DRY-029	No. 4 Dryer	PM ₁₀	3.00	4.0
06BIN-031	No. 2 Loading Bin	PM ₁₀	1.00	2.0
06CLR-037	No. 2 Fluid Bed Cooler	PM ₁₀	2.00	2.0
06TFX-038	No. 2 TWKA Storage Tank	VOC	6.94	3.9
06TFX-042	Op1A No. 1 TWKA Receiver	VOC	0.52	1.0
06TFX-043	Op1A No. 2 TWKA Receiver	VOC	0.52	1.0
06TFX-044	Op1A Crude KA Tank	VOC	2.06	1.5
06TFX-045	Op1A NVR Tank	VOC	0.11	0.3
06LBA-047	Cyane Barge Unloading	VOC	5.50	2.0
06DRY-050	No. 1 Fluid Bed Dryer	PM ₁₀	1.50	3.0
06TFX-052	Op1 No. 1 TWKA Receiver	VOC	1.91	1.3
06TFX-053	Op1 No. 2 TWKA Receiver	VOC	1.91	1.3
06TFX-054	Op1 Crude KA Tank	VOC	1.26	0.6

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			lb/hr	TPY
06TFX-056	No. 1 TWKA Storage Tank	VOC	6.94	3.9
06CEN-062	No. 5 and No. 6 Crude Centrifuge	PM ₁₀	0.19	0.4
		NO _x	1.00	2.2
06CRY-066	No. 1 SR Crystallizer Jet Seal Tank	NO _x	1.01	2.0
06CRY-067	No. 1 Refined Crystallizer Jet Seal Tank	NO _x	<0.01	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
06CRY-068	No. 2 SR Crystallizer Jet Seal Tank	NO _x	1.10	2.0
06CRY-069	No. 2 Refined Crystallizer Jet Seal Tank	NO _x	<0.01	<0.01
06HUT-071	No. 2 PAA HUT	PM ₁₀	0.19	0.4
06TFX-072	Op1A Catalyst Mix Tank(5) (Interim Emission)	VOC	21.00	0.2
06LTR-074	KA/NVR Truck Spot	VOC	1.55	0.2
06LBA-084	KA Barge Spot	VOC	3.10	0.7
06CTL-090	Op2 Cooling Towers	VOC	1.00	3.3
06WA-091	Cooling Water Basin	VOC	2.10	8.3
06FUG	Fugitives (4)	VOC	18.08	79.1

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) PM₁₀ - particulate matter less than 10 microns in diameter
NO_x - total oxides of nitrogen
VOC - volatile organic compounds as defined in General Rule 101.1
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Emission rates from Emission Point Nos. 06TFX-012 and 06TFX-072 are temporary. (see Special Condition No. 14) The emission points shall be voided if the Catalyst Mix Tanks' vents are routed to the Low Pressure Scrubbers. New emission rate limits shall apply if the permit holder implements other options.

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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr	TPY
Hrs/day _____ Days/week _____ Weeks/year _____ or Hrs/Year <u>8,760</u>				

Dated _____