Permit No. 1790

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.

Emission	Source	Air Contaminant <u>Emis</u>		Emission F	Rates *		
Point No. (1)	Name (2)		Name (3)		-	lb/hr	TPY
5ABS-005 Only	High-Pressure Scrubber		Start-up,	Upset,	and	Maintenance	e Service
5ABS-013 Only	Low-Pressure Scrubber		Start-up,	Upset,	and	Maintenance	e Service
05COM-001	Portable Compressors		CO NO _x VOC			5.64 0.20 2.82	6.35 0.23 3.17
5FUG-050	KA Fugitives (4)		VOC			2.79	12.22
5LBA-048	KA Barge Loading/Unloading	l	VOC			0.72	0.19
05LDR-051	Cyclohexane Drum Loading		VOC			0.61	<0.001
5LTR-034	KA Trailer Loading		VOC			0.40	0.10
5LTR-054	NVR Trailer Loading		VOC			0.56	0.025
05TFL-07B	No. 3 Cyane Tank		VOC			0.40	0.39
05TFL-07C	No. 4 Cyane Tank		VOC			0.40	0.39
05TFL-07D	No. 6 De-inventory Tank		VOC			0.40	0.31
05TFL-07E	No. 61 Cyane Tank		VOC			0.40	0.39
05TFX-008	Lean Oil Tank		VOC			4.33	0.021
05TFX-009	DEHPA Tank		VOC			0.03	0.007

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
05TFX-010	DEHPA Metering Tank	VOC	0.01	0.001
05TFX-011	EDTA Tank	VOC	0.001	<0.001
05TFX-012	EDTA Metering Tank	VOC	<0.001	<0.001
05TFX-015	Seal Flush Tank	VOC	0.001	<0.001
05TFX-016	Cobalt Catalyst Tank	VOC	2.0	0.031
05TFX-017	Chromium Tank	VOC	0.13	0.012
05TFX-18A	No. 5 KA Tank	VOC	0.043	0.374
05TFX-18B	No. 11 KA Tank	VOC	0.061	0.59
05TFX-18C	No. 52 KA Tank	VOC	0.061	0.59
05TFX-18D	No. 53 KA Tank	VOC	0.061	0.59
05TFX-019	Catalyst Metering Tank	VOC	0.01	<0.001
05TFX-020	NVR Storage Tank K-2	VOC	<0.001	0.081
05TFX-021	NVR Storage Tank K-1	VOC	0.46	0.152
05TFX-022	Divert Tank K-6	VOC	0.92	0.096
05TFL-023	Divert Tank K-8	VOC	0.92	0.096
05TFX-024	NVR Storage Tank K-7	VOC	<0.001	0.035
05TFL-025	Divert Tank K-10	VOC	0.92	0.096
05TFX-026	KA Storage Tank K-51	VOC	0.013	0.927
05TFX-027	50A Tank	VOC	0.0043	0.0054

Emission	Source	Air Contaminant	r Contaminant <u>Emission Rates *</u>		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
05TFX-028	50B Tank	VOC	0.005	0.078	
05TFX-029	50C Tank	VOC	0.005	0.035	
05TFX-030	50D Tank	VOC	0.005	0.035	
05TFX-032	Unichem Tank	VOC	0.02	0.003	
05TFX-033	Crude KA/KALL Tank	VOC	0.38	13.526	
05TFX-035	Aqueous Waste Divert Tank	VOC	0.001	0.016	
05TFX-038	Spill Control Containment	VOC	0.0005	<0.001	
05TFX-039 Me	No. 2 Chromium DEHPA tering Tank	VOC	0.01	<0.001	
05TFX-046	Chrome/DEHPA Day Tank	VOC	0.01	0.002	
05TFX-049	Portable Diesel Tank	VOC	0.01	0.01	
05VNT-014	Steam Still Vent	Maintenance Service	Maintenance Service Only		
05VNT-037	Steam Still Decanter Vent	Maintenance Servic	Maintenance Service Only		
FD-27	AA Plant Fugitives (4)	VOC	0.07	0.30	
PD-4	West Cone Burner (5)	CO NO _× VOC	5.1 52.90 0.10	22.30 39.80 0.44	
PD-5	East Cone Burner (5)	See footnote.			
PD-16A	No. 1 Dryer Dust Scrubber	PM	4.00	12.00	

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission F	Rates * TPY
PD-16B	No. 2 Dryer Dust Scrubber	PM	4.00	12.00
PD-17	Adipic Acid Loading	РМ	0.94	1.2
PD-25 Only	Absorber Vent	Startup, Upset, and	Maintenance	e Service
PD-32	Adipic Acid Solution Tank	NO _x	0.30	0.72
PD-33	No. 1 Vacuum Jet Seal Tank	NO _x	0.16	0.39
PD-34	No. 2 Vacuum Jet Seal Tank	NO _x	0.04	0.09
PD-35	No. 1 RML Receiver	NO _x	0.023	0.10
PD-36	No. 2 RML Receiver	NO _x	0.023	0.10
PD-37	No. 1 RML Tank	NO _x	0.37	0.89
PD-38	No. 2 RML Tank	NO _x	0.15	0.37
PD-39	Solution Water Receiver	NO _x	0.023	0.10
PD-40	Solution Water Tank	NO _x	0.36	0.86
PD-41	No. 1 Refined Solution Receiv	ver NO _x	0.023	0.10
PD-42	No. 2 Refined Solution Receiv	ver NO _x	0.023	0.10
PD-43	PML Tank Vent	NO _x	<0.10	<0.10
PD-45	DBE Storage Tank Vent	VOC	0.53	3.344
PD-49	Refined Solution Storage Tan	k NO _x	0.17	0.40

AIR CONTAMINANTS DATA

Emission *	Source	Air	Contaminant	<u>Emissi</u>	on Rates
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY
PD-50	N₂O/NO _x Abater	NH ₃ NO _x N ₂ O VOC	CO 2.10 43.10 3,405 2.10	5.30 5.00 30.00 7,892 5.00	12.20
PJ-14I	Methanol Tank No. 41		VOC	0.05	0.12
PJ-14J	Methanol Tank No. 42		VOC	0.05	0.12
MEOH-Fug	Methanol Area Fugitives (4)	VOC	0.15	0.64

- (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.

Cyane - cyclohexane

DBE - dibasic esters

DEHPA - [Defined in the confidential file] EDTA - Ethylenediaminetetraacetic acid

KA - Ketone-Alcohol mixture of cyclohexanone and cyclohexanol

KALL - Ketone-Alcohol lower layer

NVR - non volatile residue

PML - Purge Mother Liquor (dibasic acid and water)
RML - Refined Mother Liquor (adipic acid and water)

(3) CO - carbon monoxide

NH₃ - ammonia

NO_x - total oxides of nitrogen

N₂O - nitrous oxide

PM - particulate matter, suspended in the atmosphere, including PM₁₀

 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.

- VOC volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1.
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable

Emission	Source	Air Contaminant		Rates
– Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
West Cone	e Burner (EPN PD-4) th	otion, may emit all or part of the emiss rough the East Cone Burner (EPN PD and PD-5 may not exceed the maximu	-5). The sum	of all
* Emission rate schedule:	es are based on and the	e facilities are limited by the following r	naximum oper	ating
Hrs/day	Days/week Weeks/	/year or Hrs/year <u>8,760</u>		
		Dated		