

Emission Sources - Maximum Allowable Emission Rates

Permit Number 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, sources, and related activities. 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)	Emission Rates	
			lbs/hour	TPY (4)
05LDR-051	Cyclohexane Drum Loading	VOC	0.61	0.001
05LTR-034	KA Trailer Loading	VOC	0.36	0.03
05LBA-048	KA Barge Loading	VOC	1.07	0.61
5LTR-054	NVR Trailer Loading	VOC	0.56	0.025
PD-50	N ₂ O/NO _x Abater (7)	CO	6.20	25.84
		NH ₃	2.11	4.50
		NO _x	47.39	20.25
		N ₂ O	2922.08	6243.75
		VOC	2.11	4.5
PD-16A	No. 1 Dryer Dust Scrubber	PM	0.01	0.05
PD-16B	No. 2 Dryer Dust Scrubber	PM	0.01	0.05
PD-17	Adipic Acid Loading	PM	0.35	1.13
PD-32	Adipic Acid Solution Tank	NO _x	0.45	1.08
PD-33	No. 1 Vacuum Jet Seal Tank	NO _x	0.21	0.5
PD-34	No. 2 Vacuum Jet Seal Tank	NO _x	0.05	0.12
PD-35	Semi-Refined WML Receiver	NO _x	0.02	0.1
PD-36	RML Receiver	NO _x	0.02	0.1
PD-37	Semi-Refined WML Storage Tank	NO _x	0.47	1.14
PD-38	RML Storage Tank	NO _x	0.22	0.53

Emission Sources - Maximum Allowable Emission Rates

PD 39	Solution Water Receiver	NO _x	0.02	0.1
PD 40	Solution Water Tank	NO _x	0.47	1.13
PD 41	No. 1 Refined Solution Receiver	NO _x	0.02	0.10
PD 42	No. 2 Refined Solution Receiver	NO _x	0.02	0.10
PD 43	PML Tank Vent	NO _x	0.01	0.01
PD 49	Refined Solution Storage Tank	NO _x	0.22	0.54
PD-4	West Cone Burner (6)	CO	5.10	22.30
		NO _x	52.90	39.80
		VOC	0.10	0.44
PD-5	East Cone Burner (6)	See footnote		
05CLT 095	Adipic Acid Cooling Tower	PM	0.78	3.41
NA CLT	Nitric Acid Cooling Tower	PM	0.30	1.30
PC-9	Vent Stack	NH ₃	2.12	8.50
		NO _x	79.50	210.00
		N ₂ O	1097.70	2072.50
PC-14	Batch Stripping	NH ₃	2.98	1.10
05FUG-050	KA Fugitives (5)	VOC	1.43	6.26
MEOH-FUG	Methanol Area Fugitives (5)	VOC	0.46	2.01
FD-27	AA Plant Fugitives (5)	VOC	0.04	0.17
FD-28	AA Inorganic Fugitives (5)	HNO ₃	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

FC-10	Fugitives (5)	HNO ₃	0.02	0.06
		NH ₃	0.05	0.20
		NO _x	0.02	0.07
		N ₂ O	0.01	0.01
05TFL-07B	No. 3 Cyane Tank	VOC	0.34	0.38
05TFL-07C	No. 4 Cyane Tank	VOC	0.33	0.38
05TFL-07D	No. 6 De-Inventory Tank	VOC	0.09	0.31
05TFL-07E	No. 61 Cyane Tank	VOC	0.34	0.38
05TFX-008	Lean Oil Tank	VOC	0.40	0.03
05TFX-011	EDTA Storage Tank	VOC	0.01	0.01
05TFX-012	EDTA Metering Tank	VOC	0.01	0.01
05TFX-015	Seal Flush Tank	VOC	0.01	0.01
05TFX-016	Cobalt Catalyst Tank	VOC	0.17	0.03
05TFX-18A	No. 5 KA Tank	VOC	0.97	0.36
05TFX-18B	No. 11 KA Tank	VOC	1.36	0.57
05TFX-18C	No. 52 KA Tank	VOC	1.36	0.57
05TFX-18D	No. 53 KA Tank	VOC	1.36	0.57
05TFX-020	NVR Storage Tank K-2	VOC	0.04	0.05
05TFX-021	NVR Storage Tank K-1	VOC	0.04	0.05
05TFX-022	Divert Tank K-6	VOC	0.71	0.10
05TFL-023	Divert Tank K-8	VOC	0.71	0.10
05TFX-024	NVR Storage Tank K-7	VOC	0.04	0.03
05TFX-025	Divert Tank K-10	VOC	0.71	0.10
05TFX-026	KA Storage Tank K-51	VOC	1.29	0.92
05TFX-027	50A Tank	VOC	0.80	0.11

Emission Sources - Maximum Allowable Emission Rates

05TFX-028	50B Tank	VOC	0.80	0.11
05TFX-029	50C Tank	VOC	0.80	0.11
05TFX-030	50D Tank	VOC	0.80	0.11
05TFX-032	Unichem Tank	VOC	0.03	0.01
05TFX-033	Crude KA/KALL Tank	VOC	6.82	16.06
05TFX-035	Aqueous Waste Divert Tank	VOC	0.13	0.02
05TFX-038	Spill Containment Collection Tank	VOC	0.01	0.01
05TFX-049	Portable Diesel Tank	VOC	0.25	0.01
PD-45	DBE Process Tank Vent	VOC	0.19	0.80
PJ-14I	Methanol Tank No. 41	VOC	0.143	0.12
PJ-14J	Methanol Tank No. 42	VOC	0.143	0.12
WWFUG	Wastewater Fugitives (5)	VOC	0.69	3.11
PC-12	Ammonia Flare (MSS)	CO	1.073	0.861
		NH ₃	3.41	1.84
		NO _x	1.903	1.079
		VOC	0.408	0.322
PD-25	Absorber Vent (MSS)	CO	53.00	19.13
		NO _x	72.9	18.98
		N ₂ O	14985	5852
		VOC	10.80	4.22
05VNT-031	Aqueous Waste Decanter Vent (MSS)	CO	0.04	0.01
		VOC	0.14	0.02
05VNT-014	Steam Still Vent (MSS)	CO	13.13	0.32
		VOC	0.57	0.05
05VNT-037	Steam Still Decanter	CO	2.63	0.06

Emission Sources - Maximum Allowable Emission Rates

		VOC	0.11	0.01
5ABS-005	High Pressure Scrubber (MSS)	CO	542.08	0.81
		VOC	175.29	0.27
5ABS-013	Low Pressure Scrubber (MSS)	CO	206.09	0.31
		VOC	25.81	0.04
MSS FUG	MSS Emissions to Atmosphere (MSS)	CO	6.71	0.39
		NOX	5.84	0.44
		PM10	0.87	0.02
		SO2	0.01	0.01
		VOC	151.19	1.84

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- (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)
 - CO - carbon monoxide
 - NH₃ - ammonia
 - NO_x - total oxides of nitrogen
 - N₂O - nitrous oxide
 - PM - particulate matter, suspended in the atmosphere, including PM₁₀
 - PM₁₀ - particulate matter 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
 - HNO₃ - nitric acid
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) The holder of this permit, at his option, may emit all or part of the emissions allowed from the West Cone Burner (EPN PD-4) through the East Cone Burner (EPN PD-5). The sum of all emissions from both EPNs PD-4 and PD-5 may not exceed the maximum allowable emission rates shown for EPN PD 4.
- (7) The emissions allowed from the N₂O/NO_x Abater (EPN PD-50) include emissions referenced in Standard Permit Number 81904.

Date: August 12, 2014