Permit Number 20011

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	
(1)			lbs/hour	TPY (4)
10FLR-005	Adiponitrile Flare (6)	voc	15.80	8.92
		NO _x	10.62	7.68
		со	72.36	47.94
		NH₃	1.01	0.57
07TFX-005	No. 1 WAK HUT	voc	8.94	1.41
07TFX-005A	No. 2 WAK HUT	voc	21.13	2.50
07TFX-005B	No.3 WAK HUT	voc	0.38	0.18
07TFX-005C	No.4 WAK HUT	voc	0.38	0.18
07VNT-008	Filter Jet Vent	NO _x	5.80	25.30
		со	0.18	0.81
07FLT-013	Crude Filter Vent	NO _x	0.30	1.30
		со	0.03	0.12
07LTR-016	Op. 11-12 Truck Loading	voc	0.01	0.01
07LTR-015A	CDD and CDDA/K Truck Loading	voc	1.40	1.05
07MUDTANK	CAK Decanter Mud Tank	voc	0.47	2.03
07TFX-023	DCC Decanter	voc	12.13	2.00
07TFX-024	2nd Stage Decanter	voc	21.08	4.06
07TFX-025	NVR Residue Tank	voc	3.40	0.13

07TFX-026A	DBW Tank A	voc	0.01	0.01
		NO _x	0.02	0.01
		HNO ₃	0.01	0.01
07TFX-026B	DBW Tank B	voc	0.01	0.01
		NO _x	0.02	0.01
		HNO ₃	0.01	0.01
07FLT-028	DDDA Rework Filter	РМ	3.50	0.30
07VNT-029	Op. 15 Backup Vent (7)	NO _x	0.04	0.20
		со	0.39	1.69
		SO ₂	0.01	0.04
	Op. 15 Backup Vent during DeColorizer	NO _x	129.22	11.63
	operation (8)	со	9.34	0.84
		SO ₂	0.24	0.02
07TFX-032A	PDT (CDDT) Receiver A	voc	1.80	0.40
07TFX-032B	PDT (CDDT) Receiver B	voc	1.80	0.40
07TFX-032C	PDT (CDDT) Receiver C	voc	1.80	0.40
07TFX-032D	PDT (CDDT) Receiver D	voc	1.80	0.40
07TFX-032E	PDT (CDDT) Receiver E	voc	1.80	0.40
07TFX-032F	PDT Shore Tank	VOC	0.42	0.23
07TFX-033A	CDD Receiver A	VOC	2.09	0.47
07TFX-033B	CDD Receiver B	VOC	2.09	0.47
07TFX-034	CDD Storage Tank	VOC	11.06	0.85
07TFX-035	Scaletrol PDC9353 Tank	voc	0.14	0.01
07TFX-036	OptiSperse CL2000	voc	0.05	0.01

Emission Sources - Maximum Allowable Emission Rates

	Tank			
07TFX-037A	PAK Receiver A	VOC	4.42	0.23
07TFX-037B	PAK Receiver B	VOC	4.42	0.23
07TFX-037C	PAK Receiver C	VOC	4.42	0.23
07TFX-038A	PAK Storage A	VOC	4.42	0.32
07TFX-038B	PAK Storage B	VOC	4.42	0.26
07TFX-039	RDD HUT Vent Maintenance (8)	voc	0.22	0.06
07TFX-040	Organic HUT	voc	34.21	7.17
07TFX-040A	EAW Neutralization Tank	voc	2.95	0.88
07CWA-041	Cooling Water	VOC	0.84	2.39
07VNT-045	H2 Separator Vent	voc	0.90	3.94
07TFX-051	Op. 11 Organic Hut	VOC	0.06	0.03
07TFX-053	WFE Jet Tank	VOC	0.01	0.01
07TFX-054	Clean Out Drum	VOC	0.01	0.01
07TFX-054A	Inhibitor Tank	VOC	0.01	0.01
07TFX-057	Op. 14 Aqueous Waste Decanter	voc	8.84	2.33
07TFX-058	Op. 14 Building Decanter	voc	0.02	0.01
07TFX-075	Op. 15 Refined Crystallizer Fume	voc	0.01	0.01
	Header Maintenance (8)	NOx	0.23	0.02
		HNO₃	0.14	0.01
07TFX-630	Op. 15 Flasher Feed Tank Fume Header Maintenance (8)	VOC	0.01	0.01
		HNO ₃	0.09	0.01
07TFX-631	Op. 15 Dilute Nitric Acid Tank Fume Header Maintenance (8)	HNO₃	0.05	0.01

Emission Sources - Maximum Allowable Emission Rates

07TFX-632	Op. 15 Conc. Nitric Acid Tank Fume Header Maintenance (8)	HNO ₃	0.08	0.01
07TFX-632A	Op. 15 #1 Crude Crystallizer Fume	voc	0.01	0.01
	Header Maintenance (8)	NOx	0.08	0.01
		HNO ₃	0.05	0.01
07TFX-632B	Op. 15 #2 Crude Crystallizer Fume	voc	0.01	0.01
	Header Maintenance (8)	NOx	0.08	0.01
		HNO ₃	0.05	0.01
07TFX-634	Op. 15 NAFM Tank Fume Header	voc	0.01	0.01
	Maintenance (8)	HNO ₃	0.09	0.01
07TFX-697	Op. 16 NML Tank Fume Header	voc	0.01	0.01
	Maintenance (8)	HNO ₃	0.09	0.01
07TFX-698	Op. 16 DBW Extractor Fume Header	voc	0.01	0.01
	Maintenance (8)	HNO ₃	0.02	0.01
07VNT-122	DDDA Flaker Visual Inspections (8)	РМ	0.13	0.14
07VNT-123	M1 Flaker Visual Inspections (8)	РМ	0.04	0.04
18TFL-027	Class "A" Waste Tank	voc	0.28	0.65
	Roof Landing & Cleaning (8)	voc	12.17	0.15
18LTR-027	Class "A" Waste Truck and Frac Tank Loading (8)	voc	12.30	0.15
18LTR-073	TRI Oil Truck Loading	VOC	0.01	0.01
	WET Tank Truck Loading Class "A" Desludging Waste (8)	VOC	3.94	0.02
18TFX-028	B Aqueous Waste Tank	VOC	0.01	0.01
	Tank	HNO₃	4.32	1.18

Emission Sources - Maximum Allowable Emission Rates

18TFL-030	Class "A" Oil Tank	voc	0.03	0.04
	Roof Landing & Cleaning (8)	voc	0.43	0.01
18LTR-030	Class "A" Oil Truck Loading	VOC	0.52	0.09
	Class "A" Oil Truck Loading (8)	VOC	3.94	0.04
18TFX-061	CSM Tank	voc	0.01	0.01
		HNO ₃	0.72	0.23
		NO _x	0.01	0.01
		HNO ₃	0.01	0.01
18TFX-062	Unloading Tank	voc	0.01	0.01
		HNO₃	0.01	0.01
18TFX-062A	RF Separator	voc	0.01	0.01
		HNO ₃	0.01	0.01
18SMP-63	Settler Sump	voc	0.01	0.01
18TFL-065	A/B Swing Tank	voc	0.98	2.30
		HNO ₃	0.09	0.27
	Roof Landing & Cleaning (8)	VOC	0.18	0.01
18TFX-072	Waste Collection Tank	VOC	0.01	0.01
		РМ	0.01	0.01
		HNO ₃	0.01	0.01
18TFX-073	Waste Equalization Tank	voc	0.01	0.01
18SEP-075	A Tank Oil/Water Separator (9)	VOC	0.01	0.01
18TRN-027	Trench from 18TFL027 (8)	VOC	0.13	0.01
18TRN-030	Trench from 18TFL030 (8)	VOC	0.13	0.01
18TRN-065	Trench from 18TFL065	voc	0.13	0.01

Emission Sources - Maximum Allowable Emission Rates

	(8)			
18SMP-736	Unloading Sump	voc	0.01	0.02
	Waste Area Tank Cleaning (8)	VOC	0.01	0.01
18SMP-737	Acids Waste Sump	VOC	0.01	0.01
		HNO₃	0.01	0.01
	Waste Area Tank Cleaning (8)	VOC	0.01	0.01
07SMP-011	Op. 11 Sump	VOC	0.01	0.01
07SMP-011A	Op. 11A Sump	VOC	0.01	0.01
07SMP-012	Op. 12 Sump	voc	0.01	0.01
07TRN-013	Op. 13 Trenches (8)	H₃BO₃	1.27	0.15
07SMP-013E	Op. 13 East Sump (8)	H ₃ BO ₃	0.58	0.41
07SMP-013W	Op. 13 West Sump (8)	H ₃ BO ₃	0.86	1.13
07SMP-013	Op. 13 Sump	voc	0.01	0.01
07SMP-014	Op. 14 Sump	voc	0.01	0.01
07SMP-015	Op. 15 and 16 Sumps	VOC	0.01	0.01
		HNO ₃	0.04	0.01
07SMP-016	Op. 16 Sump	voc	0.01	0.01
		HNO ₃	0.04	0.01
07FUG	Fugitive Emissions (5)	VOC	7.10	30.98
		СО	0.01	0.01
		NH ₃	0.01	0.04
		HNO₃	0.08	0.32
		H ₃ BO ₃	0.01	0.01
		TiCl ₄	0.01	0.01
07FUG-1	DBW Solids Transloading	NOx	0.01	0.01
		PM	0.63	0.01
07TFX-636A	Urea Mix Tank	voc	0.02	0.01
07TFX-636	Urea Solution Tank	voc	0.03	0.01

07LTR-025A	NVR Truck Loading	voc	0.16	0.02
07LTR-026C	DBW Truck Loading	VOC	0.01	0.01
	and M1 Transloading	NOx	0.02	0.01
		HNO₃	0.01	0.01
		PM	0.66	0.02
07LTR-028A	DDDA Transloading	РМ	0.11	0.01
07LTR-028B	M1 Transloading to Drums	РМ	0.26	0.01
07LTR-040B	EAW Neut Tank Oil Layer Loading	VOC	1.69	0.03
07RSY-026F	DBW H2 Reactor	NH ₃	0.01	0.01
		со	0.01	0.01
07DIS-026G	DBW Flash Dryer	NH₃	0.01	0.01
		СО	0.01	0.01
07DIS-512	No. 1 Flash Dryer Vent	voc	0.02	0.07
07FUGMSS	C-12 Unit Grouped Maintenance Activities	voc	3.41	0.07
	(8)	NOx	0.83	0.91
		со	0.08	0.09
		РМ	0.13	0.01
		NH ₃	0.24	0.01
		HNO ₃	1.10	0.79
		H ₃ BO ₃	0.01	0.01

- (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) VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - NO_x total oxides of nitrogen
 - SO₂ sulfur dioxide
 - PM total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented

 PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as

represented

PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

 NH_3 ammonia HNO_3 - nitric acid H_3BO_3 - boric acid TiCl titanium at

TiCl₄ - titanium chloride

- (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) Routine emissions attributable to this facility.
- (7) Pilot emissions only
- (8) Emissions associated with a planned maintenance activity only.
- (9) Emissions include both normal operation and planned maintenance, startup and shutdown emissions.