

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 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. 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
07FLR-004	Flare (5)	VOC	19.94	19.78
		NO _x	14.40	11.64
		CO	54.82	40.84
		Ammonia	1.19	2.67
07TFX-005	No. 1 WAK Tank	VOC	0.35	1.26
07TFX-005A	No. 2 WAK Tank	VOC	0.83	2.57
07VNT-006	DCC Emergency Vent	FOR EMERGENCY USE ONLY		
07VNT-008	Filter Jet Vent	NO _x	5.80	19.80
		CO	0.18	0.63
07VNT-009	Op. 14 Jet Vent No. 1	STARTUP AND SHUTDOWN USE ONLY		
07VNT-010	Op. 14 Jet Vent No. 2	STARTUP AND SHUTDOWN USE ONLY		
07VNT-011	Op. 14 Jet Vent No. 3	STARTUP AND SHUTDOWN USE ONLY		
07VNT-012	Op. 14 Jet Vent No. 4	STARTUP AND SHUTDOWN USE ONLY		
07FLT-013	Crude Filter Vent	NO _x	0.30	1.30
		CO	0.03	0.12
07LTR-015	Crude COD Loading CAS	VOC	0.20	0.04
07LTR-015A	CDDA/K Loading	VOC	0.71	0.24

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
07LTR-015B	CDD Loading	VOC	1.17	0.13
07LTR-015C	PDT Loading	VOC	0.19	0.05
07TFX-023	DCC Decanter	VOC	0.19	0.21
07TFX-024	2nd Stage Decanter	VOC	0.38	0.48
07TFX-025	NVR Tank	VOC	0.01	0.05
07TFX-026A	DBW Tank A	VOC	<0.01	<0.01
		Nitric Acid	0.03	0.11
07TFX-026B	DBW Tank B	VOC	<0.01	<0.01
		Nitric Acid	0.03	0.11
07FLT-028	DDDA Rework Filter	PM	3.50	0.30
07VNT-029	Op. 15 Backup Vent	FOR EMERGENCY USE ONLY		
07TFX-032A	CDDT Receiver A	VOC	0.03	0.04
07TFX-032B	CDDT Receiver B	VOC	0.03	0.04
07TFX-032C	CDDT Receiver C	VOC	0.03	0.04
07TFX-032D	CDDT Receiver D	VOC	0.03	0.04
07TFX-032E	CDDT/PDT Receiver E	VOC	0.03	0.04
07TFX-033A	CDD Receiver A	VOC	0.09	0.36
07TFX-033B	CDD Receiver B	VOC	0.09	0.36

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
07TFX-033C	CDD Receiver C	VOC	0.09	0.36
07TFX-034	CDD Storage Tank	VOC	0.24	1.04
07TFX-037A	PAK Receiver A	VOC	0.03	0.05
07TFX-037B	PAK Receiver B	VOC	0.03	0.05
07TFX-037C	PAK Receiver C	VOC	0.03	0.05
07TFX-038A	PAK Storage Tank A	VOC	0.04	0.15
07TFX-038B	PAK Storage Tank B	VOC	0.04	0.15
07TFX-040	Organic HUT	VOC	0.12	0.57
07TFX-040A	Boron Interim Tank	VOC	<0.01	<0.01
07TFX-040B	Chromium Catalyst Tank	VOC	<0.01	<0.01
07CWA-041	Cooling Water	VOC	8.00	6.90
07VNT-044	CDD Startup Vent	VOC CO	5.90 0.10	0.11 <0.01
07VNT-045	H2 Separator Vent	VOC	0.90	3.94
07FLT-046	Op. 16 Bag Filter	PM	0.09	0.34
07TFX-051	Op. 11 Organic Tank	VOC	0.20	0.71
07TFX-052	Op. 11 Wash Tank	VOC	0.08	0.11
07TFX-053	WFE Jet Tank	VOC	<0.01	<0.01
07TFX-054	Cleanout Drum	VOC	<0.01	<0.01

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
07TFX-054A	Inhibitor Tank	VOC	<0.01	<0.01
07TFX-057	Aqueous Waste Tank	VOC	<0.01	<0.01
07TFX-058	Op. 14 Building Decanter	VOC		<0.01
	<0.01			
18TFL-027	A Waste Tank	VOC	0.03	0.12
18TFX-028	B Aqueous Waste Tank	Nitric Acid	0.13	0.34
18TFL-030	A Waste Oil Tank	VOC	0.02	0.03
18TFX-060	Settler Tank	VOC	<0.01	<0.01
		Nitric Acid	<0.01	<0.01
18TFX-060A	Settler Seal Tank	VOC	<0.01	<0.01
		Nitric Acid	<0.01	<0.01
18TFX-061	CSM Tank	VOC	<0.01	<0.01
		Nitric Acid	0.05	0.15
18TFX-062	Unloading Tank	VOC	<0.01	<0.01
		Nitric Acid	<0.01	<0.01
18TFX-062A	RF Separator	Nitric Acid	<0.01	<0.01
18TFL-065A	Class A/B Swing Oil Service	VOC	0.01	0.03
18TFL-065B	Class A/B Swing Aqueous	Nitric Acid	0.09	0.23
18TFX-072	Waste Collection Tank	Nitric Acid	<0.01	<0.01
18TFX-073	Waste Equalization Tank	VOC		<0.01

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
	<0.01			
		Nitric Acid	<0.01	<0.01
18SEP-075	A Tank Oil/Water Separator	VOC		0.01
	0.01			
18SMP-736	Unloading Sump	VOC	<0.01	<0.01
18SMP-737	Acids Waste Sump	Nitric Acid	<0.01	<0.01
18SMP-063	Settler Sump	VOC	<0.01	<0.01
07SMP-011	Op. 11 and 12 Sumps	VOC	<0.01	<0.01
07SMP-011A	Op. 11A Sumps	VOC	<0.01	<0.01
07SMP-013	Op. 13 and 14 Sumps	VOC	<0.01	<0.01
07SMP-015	Op. 15 and 16 Sumps	VOC	<0.01	<0.01
		Nitric Acid	<0.01	<0.01
07FUG	Fugitive Emissions (4)	VOC	5.66	24.78

- (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 carbons as defined in General Rule 101.1
 NO_x - total oxides of nitrogen
 CO - carbon monoxide
 PM - particulate matter
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr TPY</u>

(5) Routine emissions attributable to this facility. This flare is also used to control facility upset emissions.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule: Hrs/year 8,760

Dated_____