

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 7186

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
10FLR-001	No. 1 Converter Start-up Flare	VOC	220.2	4.6
		NOx	1039.9	29.8
		CO	92.4	3.0
		NH3	174.4	3.8
10FLR-002	No. 2 Converter Start-up Flare	VOC	220.2	4.6
		NOx	1039.9	29.7
		CO	92.4	3.0
		NH3	172.4	3.8
10FLR-003	No. 3 Converter Start-up Flare	VOC	220.2	4.6
		NOx	1039.9	29.7
		CO	92.4	3.0
		NH3	172.4	3.8
10FLR-004	Ammonia Start-up Flare	NOx	1509.3	32.3
		CO	32.3	0.9
		NH3	277.6	6.0
10FLR-004A	Cold Ammonia Tank Flare (5)	VOC	4.0	1.2
		NOx	0.2	0.1
		CO	1.0	0.1
		NH3	0.2	0.2
10FLR-005	Process Flare (6)	VOC	324.4	35.6
		NOx	434.2	39.4
		CO	545.8	93.9
		NH3	0.2	0.2
10TFL-006A	Crude Pentenenitrile Tank	VOC	0.2	0.8
10TFL-006B	2-Methyl-3-Butenenitrile	VOC	<0.1	0.3

	Tank			
10TFL-006C	2-Methyl-3-Butenenitrile Tank	VOC	0.1	0.5

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lb/hr	TPY
10TFL-006D	Lo Boiler Feed Tank	VOC	<0.1	0.2
10TFL-006F	SII FL Make Tank	VOC	<0.1	0.2
10TFX-008	Catalyst Purge Tank	VOC	<0.1	0.1
10TFX-010	Fresh Ligand Tank	VOC	<0.1	<0.1
10TFX-011	Fresh Catalyst 3 Tank	VOC	<0.1	<0.1
10TFX-012	Catalyst Blend Tank	VOC	<0.1	<0.1
10TFL-013	2-Methyl-3-Butenenitrile Tank	VOC	<0.1	0.2
10TFL-015	Extract Tank	VOC	0.5	2.2
10TFL-015A	Extract Tank	VOC	0.5	2.2
10TFX-016	Recycle Ligand Tank	VOC	0.2	0.8
10TFX-017	Recycle Ligand Tank	VOC	0.2	0.8
10TFL-018	Recycle Cyane Tank	VOC	0.8	3.3
10TFL-018A	Recycle Cyane Tank	VOC	0.8	3.3
10TFX-019	Fresh Catalyst Tank	VOC	<0.1	<0.1
10TFX-020	Fresh Catalyst Tank	VOC	<0.1	<0.1
10TFX-020A	Fresh Catalyst Tank	VOC	<0.1	<0.1

10TFL-021	North Raffinate Tank	VOC	<0.1	0.3
10TFL-022	South Raffinate Tank	VOC	<0.1	0.3
10TFL-023	Wet Organic Tank	VOC	0.2	0.9
10TFX-024	Methylglutaronitrile Tank	VOC	<0.1	<0.1
10TFX-025	WFE Feed Tank	VOC	<0.1	<0.1

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			lb/hr	TPY
10TFX-025A	WFE Feed Tank	VOC	<0.1	<0.1
10TFX-25B	WFE Tail Tank	VOC	<0.1	<0.1
10TFL-026	Refined Pentenenitrile Tank	VOC	<0.1	0.3
10TFL-026A	Refined Pentenenitrile Tank	VOC	0.2	0.6
10TFX-027	Refined Adiponitrile Tank	VOC	<0.1	<0.1
10TFX-028	Refined Adiponitrile Tank	VOC	<0.1	<0.1
10TFX-029	Refined Adiponitrile Tank	VOC	<0.1	<0.1
10TFX-030	Refined Adiponitrile Tank	VOC	<0.1	<0.1
10TFX-031	Refined Adiponitrile Tank	VOC	<0.1	<0.1
10TFX-032	Refined Adiponitrile Tank	VOC	<0.1	<0.1
10TFX-032B	Refined Adiponitrile 7 Tank	VOC	<0.1	<0.1
10TFX-033	Multi-purpose PN Tank	VOC	0.3	1.1
10TFX-034A	Multi-purpose PN Tank	VOC	0.3	1.0
10TFX-034B	Multi-purpose PN Tank	VOC	0.3	1.3

10TFX-035	Multi-purpose PN 1 Tank	VOC	0.3	1.0
10TFX-035B	Multi-purpose PN 1A Tank	VOC	<0.1	0.4
10TFX-035C	Multi-purpose PN 1C Tank	VOC	<0.1	0.4
10TFX-035D	Multi-purpose 2PN 1B Tank	VOC	<0.1	0.3
10TFX-036	Refined Methylglutaronitrile Tank	VOC	<0.1	0.1
10TFX-036A	Crude Dinitriles Tank-MP	VOC	0.3	1.1

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates*</u>	
			lb/hr	TPY
10TFX-037	Crude Dinitriles Tank		VOC	<0.1 0.2
10TFX-037A	Crude Methylglutaronitrile Tank-MP		VOC	<0.1 0.3
10FUG	Fugitives (4)	VOC	19.5	85.4
		NH3	1.8	7.9
		HCN	2.5	11.0
10CLT-040	Cooling Tower (4)	VOC	3.0	13.1
		NH3	3.0	13.0
10LRC-041	ADN Rail Loading		VOC	<0.1 <0.1
10TFX-042	Promoter Pentenenitrile Tank		VOC	<0.1 0.2
10TFX-043	Promoter Inspection Tank 1		VOC	0.3 0.9
10TFX-044	Promoter Inspection Tank 2		VOC	0.3 1.0
10TFX-045	Promoter Check 1 Tank		VOC	<0.1 0.3
10TFX-046	Promoter Check 2 Tank		VOC	<0.1 0.3
10TFX-047	Methanol Tank		VOC	<0.1 0.2
10TFL-053	Miscellaneous Purge Tank		VOC	<0.1 0.2
10LRC-061A	NH3 Rail Loading		NH3	<0.1 0.3
10TFX-080	Adiponitrile Storage Tank		VOC	<0.1 0.1

- (1) Emission point identification - either specific equipment designation or from plot plan. emission point number
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.

- (3) VOC - volatile organic compounds as defined in General Rule 101.1
NOx - total oxides of nitrogen
CO - carbon monoxide
NH3 - ammonia
HCN - hydrogen cyanide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) 10FLR004A emission rates include emissions from the Barge Loading Operations-Facility Identification Number (FIN) 10LBA061B
- (6) 10FLR005 emission rates include emissions from the Lo Boil Waste Tank-FIN 10TFX006E Benzene and Coproducts Loading Tank--FIN 10TFX060 and Truck Loading-FIN10LTR061

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

Hrs/day____Days/week____Weeks/year____or Hrs/year 8,760

Revised _____