Emission Sources - Maximum Allowable Emission Rates

Permit Number 7186 and PSDTX1079M2

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

Table A - Maximum Allowable Emission Rates in Effect Before ADN Retrofit Project

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
10FLR-001 10FLR-002 10FLR-003 10FLR-003A	Converter Flares (7)	CO	1.29	5.66
		NH_3	0.01	0.03
		NO_x	0.16	0.72
		SO_2	0.01	0.04
		VOC	0.28	1.23
10FLR-001 10FLR-002 10FLR-003 10FLR-003A	Converter Flares MSS (8)	CO	331.84	24.50
		NH_3	125.46	8.22
		NO_x	133.24	9.79
		SO_2	0.22	0.02
		VOC	347.29	13.91
10FLR-004	Ammonia Startup Flare	CO	0.19	0.80
		NH_3	0.05	0.20
		NO_x	0.03	0.10
		SO_2	0.01	0.01
		VOC	0.04	0.16
10FLR-004	Ammonia Startup Flare MSS Emissions	CO	116.00	10.58
		NH_3	95.80	8.75
		NO_x	55.66	5.62
		SO_2	0.13	0.02
		VOC	22.54	1.32
10FLR-004A	Ammonia Tank Flare	CO	1.67	3.65
		NH_3	0.47	0.80
		NO_x	0.44	0.83
		SO_2	0.02	0.02
		VOC	0.63	1.61

Emission Sources - Maximum Allowable Emission Rates

10FLR-004A	Ammonia Tank Flare MSS Emissions	CO	12.43	0.60
		NH_3	21.33	0.54
		NO_x	12.11	0.34
		SO_2	<0.01	<0.01
		VOC	4.94	0.28
10FLR-004B	Butadiene Flare	CO	9.32	10.51
		NO_x	2.21	3.65
		SO_2	0.01	0.02
		VOC	2.74	3.40
10FLR-004B	Butadiene Flare MSS Emissions	CO	15.61	1.59
		NO_x	5.23	0.29
		SO_2	0.03	0.01
		VOC	9.64	0.53
10FLR-005	Adiponitrile Flare	CO	1,637.74	2,569.39
		NH_3	1.32	1.04
		NO_x	141.16	184.34
		SO_2	0.04	0.08
		VOC	624.33	518.06
		HCN	0.01	0.01
10FLR-005	Adiponitrile Flare MSS Emissions	CO	1,069.32	81.50
		NH_3	0.01	0.01
		NO_x	231.63	14.00
		SO_2	0.63	0.07
		VOC	1,042.13	65.17
10FLR-TMP	TEMP Flare (6)	CO	1.98	0.32
		NH_3	0.05	0.01
		NO_x	0.41	0.07
		SO_2	0.01	0.01
		VOC	2.97	0.47
10FLR-ALT	Alternative Flare for 10FLR-005	CO	5.56	1.96
		NH_3	0.05	0.02
		NO_X	0.89	0.29
		SO_2	<0.01	<0.01
		VOC	6.36	2.18
10FLRALTF	Fugitives from Alternative Flare for 10FLR-005 (5)	NH_3	0.02	0.01
		VOC	1.89	0.01
10CLT-040	Cooling Tower	NH_3	3.83	16.75
		PM_{10}	1.10	4.21
		VOC	3.83	16.75
10FUG	ADN Fugitives (5)	CO	0.17	0.53
		H_2S	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

		NH_3	2.48	8.07
		VOC	55.15	195.80
		HCN	0.02	0.02
10FUG	ADN Fugitives (5) MSS Emissions	CO	0.01	0.01
		NH_3	0.01	0.01
		VOC	0.04	0.15
10FUG2	311 Fugitives (5)	HCl	0.02	0.07
		NH_3	0.03	0.06
		VOC	1.26	5.41
10FUGMSS2	Ammonia Flare 10FLR004A, propane supplemental and pilot fuel	VOC	0.38	0.02
10MSS-001	MSS in ADN Area MSS Emissions	CO	0.02	0.01
		CL_2	0.06	0.01
		H_2O_2	0.01	0.01
		HCl	0.08	0.01
		NH_3	2.13	0.02
		VOC	164.93	3.23
10MSS-002	MSS in 311 Area MSS Emissions	HCl	6.26	0.06
		NH_3	2.20	0.05
		VOC	7.32	0.42
10FLT-063	Nickel Addition Bag Filter	PM_{10}	0.01	0.01
10FLT-063A	Nickel Powder Vacuum System	PM_{10}	0.05	0.01
10LBA-061B	ADN Barge Loading	VOC	0.18	0.06
10LBA-061D	NH_3 Barge Loading	NH_3	0.69	0.05
10LDR-326A	ADN Drum Loading	VOC	0.01	0.01
10LDR-326B	2M3BN Drum Loading	VOC	0.01	0.01
10LRC-041A	ADN Railcar Loading	VOC	0.02	0.02
10LRC-041B	ADN Load/Unload	VOC	0.02	0.02
10LRC-041C	ADN Railcar Loading	VOC	0.02	0.02
10LRC-041E	MGN Railcar Loading	VOC	0.09	0.02
10LRC-041F	2PN Railcar Degassing	VOC	9.42	0.18
10LTR-036	REF MGN Truck Loading	VOC	0.04	0.02
10LTR-056	No. 3 Tank Farm Truck Spot	VOC	2.05	0.08
10LTR-057	2PN Truck Unloading	VOC	0.04	0.01
10LTR-061	Truck Loading	VOC	3.53	0.75
		NH_3	0.05	0.02
10LTR-062	Misc. Load/Unload	VOC	0.07	0.01
10LTR-072	MDEA Truck Loading/Unloading	VOC	0.03	0.01
10LTR-073	Methanol Brine Truck Loading	VOC	0.32	0.01
10LTR-074	Anti-foulant Unloading	VOC	0.01	0.01
10LTR-087	Oil Unloading	VOC	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

10SCB-154	HCl Scrubber	HCl	0.38	0.05
10TFX-010	Fresh Ligand Tank	VOC	0.01	0.01
10TFX-027	REF ADN Tank No. 1	VOC	0.21	0.04
10TFX-028	REF ADN Tank No. 2	VOC	0.21	0.04
10TFX-029	REF ADN Tank No. 3	VOC	0.21	0.04
10TFX-030	REF ADN Tank No. 4	VOC	0.21	0.04
10TFX-031	REF ADN Tank No. 5	VOC	0.21	0.04
10TFX-032	REF ADN Tank No. 6	VOC	0.21	0.04
10TFX-032B	REF ADN Tank No. 7	VOC	0.10	0.12
10TFX-033	North Raffinate Sphere	VOC	17.39	0.70
10TFX-034A	Middle Raffinate Sphere	VOC	17.39	0.70
10TFX-034B	South Raffinate Sphere	VOC	17.39	0.70
10TFX-035A	TG MGN Tank	VOC	1.49	0.56
10TFX-036	REF MGN Tank	VOC	0.04	0.12
10TFX-036A	Promoter PN Sphere	VOC	3.45	1.52
10TFX-037	Crude DN/MGN Tank	VOC	0.07	0.02
10TFX-037A	Crude MGN Sphere	VOC	0.31	0.11
10TFX-038	Ethylene Glycol Tank	VOC	0.15	0.01
10TFX-047	Methanol Tank	VOC	10.38	0.22
10TFX-049A	Methanol Solution Mix Tank	VOC	1.32	0.03
10TFX-049B	Methanol Solution Tank (20%)	VOC	1.26	0.01
10TFX-049C	Methanol Solution Tank (70%)	VOC	0.37	0.01
10TFX-059	Ammonium Salt Tank	NH_3	0.08	0.01
		VOC	0.02	0.01
10TFX-067	Produced Water Tank	NH_3	0.03	0.02
		VOC	0.01	0.01
10TFX-080	Barge Dock REF ADN Tank	VOC	0.34	0.33
10TFX-085	MDEA Amine Tank	VOC	0.01	0.01
10TFX-086	Anti-foulant Tank	VOC	0.50	0.01
10TFX-087	Oil Storage Skid	VOC	0.05	0.01
10VNT-001	Feed Gas Analyzer Vent	NH_3	0.09	0.36
		VOC	0.01	0.01
10VNT-002	HCN Sample Blower Vent	CO	0.01	0.01
		NH_3	0.19	0.01
		VOC	0.26	0.01
10VNT-003	BD Column GCs	HCN	0.01	0.01
		VOC	0.02	0.02
10VNT-255	Pump Tank Scrubber and Closed Sump	CO	0.02	0.07
		VOC	0.14	0.53
10VNT-255	Pump Tank Scrubber and Closed Sump MSS Emissions	CO	0.01	0.01
		VOC	66.80	0.68

Emission Sources - Maximum Allowable Emission Rates

11TFX-036	HCN/HMD AWST	NH_3	3.62	1.72
		VOC	1.34	0.65
11TFX-047	HCN/HMD HUT	NH_3	1.47	0.87
		VOC	0.55	0.33
11TFX-048	Nitrile HUT	NH_3	1.03	0.46
		VOC	0.41	0.19
11TFX-053	RPF Filtrate Tank No. 1	NH_3	0.17	0.05
		VOC	0.01	0.01
11TFX-055	311 Area Wastewater Tank	NH_3	0.21	0.06
		VOC	0.05	0.02
11SEP-055A	API Decanter	NH_3	0.18	0.05
		VOC	0.05	0.02
11ODP-055B	Organics Dumpster	VOC	0.01	0.01
11TFX-064	NETZ Filter Feed Tank	NH_3	0.39	0.28
		VOC	0.17	0.13
11TFX-070	NETZ Effluent Tank	NH_3	0.47	0.31
		VOC	0.20	0.14
11TFX-076	Waste Collection Tank	NH_3	0.10	0.07
		VOC	0.03	0.02
11TFX-077	Waste Lift Tank	NH_3	0.01	0.01
		VOC	0.01	0.01
11TFX-153	Precoat Tank No. 1	NH_3	0.08	0.01
		VOC	0.03	0.01
10RPF-001	Rotary Precoat Filter No. 1	NH_3	1.93	3.44
		VOC	0.28	0.54
10RPF-002	RPF Conveyor/Bagger 1	NH_3	0.01	0.01
		VOC	0.01	0.01
10RPF-005	RPF Diatomaceous Earth Loading	PM_{10}	0.01	0.01

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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

Table B - Maximum Allowable Emission Rates in Effect Upon Completion of the ADN Retrofit Project (11)

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
10FLR-001 10FLR-002 10FLR-003 10FLR-003A	Converter Flares – Normal Operations (7)	CO	1.29	5.66
		NH_3	0.01	0.03
		NO_x	0.16	0.72
		SO_2	0.01	0.04
		HCN	0.02	0.10
		VOC	0.26	1.13
10FLR-001 10FLR-002 10FLR-003 10FLR-003A	Converter Flares MSS (8)	CO	331.84	24.50
		NH_3	125.46	8.22
		NO_x	133.24	9.79
		SO_2	0.22	0.02
		HCN	341.40	13.08
		VOC	5.89	0.83
10FLR-004	Ammonia Startup Flare – Normal Operations	CO	0.19	0.80
		NH_3	0.05	0.20
		NO_x	0.03	0.10
		SO_2	0.01	0.01
		HCN	<0.01	<0.01
		VOC	0.04	0.16
10FLR-004	Ammonia Startup Flare MSS	CO	116.00	10.58
		NH_3	95.80	8.75
		NO_x	55.66	5.62
		SO_2	0.13	0.02
		HCN	0.09	<0.01
		VOC	22.45	1.32
10FLR-004A	Ammonia Tank Flare – Normal Operations	CO	1.67	3.65
		NH_3	0.47	0.80
		NO_x	0.44	0.83
		SO_2	0.02	0.02
		VOC	0.63	1.61
10FLR-004A	Ammonia Tank Flare MSS	CO	12.43	0.6
		NH_3	21.33	0.54
		NO_x	12.11	0.34
		SO_2	<0.01	<0.01
		VOC	4.94	0.28

Emission Sources - Maximum Allowable Emission Rates

10FLR-004B	Butadiene Flare – Normal Operations	CO	9.32	10.51
		NO_x	2.21	3.65
		SO_2	0.01	0.02
		VOC	2.74	3.40
10FLR-004B	Butadiene Flare MSS	CO	15.61	1.59
		NO_x	5.23	0.29
		SO_2	0.03	0.01
		VOC	9.64	0.53
10FLR-005	Adiponitrile Flare (ADN Operating Flare) – Emissions from Continuous and Non-Continuous Vents from Normal Operation Only	CO	1760.42	2543.02
		NH_3	0.03	0.11
		NO_x	155.81	183.21
		SO_2	0.03	0.07
		HCN	9.86	15.08
		VOC	904.21	502.36
10FLR-005	Adiponitrile Flare (ADN Operating Flare) - MSS	CO	1067.26	81.58
		NH_3	0.24	0.01
		NO_x	218.88	13.96
		SO_2	0.63	0.07
		HCN (10)	397.71	25.03
		VOC	666.77	40.22
10FLR-TMP	Temporary-Use Flare for Vent Headers During Flare (EPN: 10FLR-005) Maintenance (6)	CO	1.98	0.32
		NH_3	0.05	0.01
		NO_x	0.41	0.07
		SO_2	0.01	0.01
		HCN	0.06	0.01
		VOC	2.91	0.46
10FLR-ALT	Alternative Flare for 10FLR-005 Maintenance	CO	5.56	1.96
		NH_3	0.05	0.02
		NO_x	0.89	0.29
		SO_2	<0.01	<0.01
		HCN	0.06	0.02
		VOC	6.30	2.16
10FLRALTF	Fugitives from Alternative Flare for Vent Headers During Flare 10FLR-005 Maintenance (5)	NH_3	0.02	0.01
		HCN	0.01	<0.01
		VOC	1.88	0.01
10CLT-040	Cooling Tower	NH_3	3.83	16.75
		PM	0.55	2.11
		PM_{10}	0.30	1.18
		$PM_{2.5}$	<0.01	<0.01
		HCN	0.46	2.00
		VOC	3.83	16.75

Emission Sources - Maximum Allowable Emission Rates

10FUG	ADN Fugitives (5)	CO	0.17	0.50
		H_2S	0.01	0.01
		NH_3	2.34	7.46
		HCN	1.84	6.13
		VOC	55.95	204.3
10FUG	ADN Fugitives MSS Emissions (5)	CO	0.01	0.01
		NH_3	0.01	0.01
		HCN	<0.01	<0.01
		VOC	0.04	0.15
10FUG2	311 Area Fugitives (5)	HCl	0.02	0.07
		NH_3	0.03	0.06
		HCN	0.03	0.12
		VOC	1.23	5.29
10FUGMSS2	Ammonia Flare 10FLR004A with propane supplemental and pilot fuel	VOC	0.38	0.02
10MSS-001	MSS Emissions in the ADN Area	CO	0.02	0.01
		Cl_2	0.06	0.01
		H_2O_2	0.01	0.01
		HCl	0.08	0.01
		NH_3	5.38	0.03
		HCN (10)	0.84	0.01
		VOC	206.54	4.10
10MSS-002	MSS Emissions in the 311 Area	HCl	6.26	0.06
		NH_3	1.15	0.02
		HCN	0.12	<0.01
		VOC	8.14	0.43
10FLT-063	Nickel Addition Bag Filter	PM_{10}	0.01	0.01
10FLT-063A	Nickel Vacuum System	PM_{10}	0.05	0.01
10FLT-064	Promoter Dump Dust Collector	VOC	0.05	0.03
		PM	0.11	0.47
		PM_{10}	0.11	0.47
		$PM_{2.5}$	0.11	0.47
10FLT-065	Nickel Dump Filter	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
10LBA-061B	ADN Barge Loading	VOC	0.28	0.06
10LBA-061D	NH_3 Barge Loading	NH_3	0.69	0.05
10LDR-326A	ADN Drum Loading	VOC	<0.01	<0.01
10LRC-041A	ADN Railcar Loading	VOC	0.03	0.01
10LRC-041B	ADN Load/Unload	VOC	0.03	0.01
10LRC-041C	ADN Railcar Loading	VOC	0.03	0.01

Emission Sources - Maximum Allowable Emission Rates

10LRC-041E	MGN (Refined) and MGN (Crude) Railcar Loading	VOC	0.17	0.01
		HCN	<0.01	<0.01
10LTR-036	REF MGN Truck Loading	VOC	0.06	0.01
10LTR-056	No. 3 Tank Farm Truck Spot	VOC	5.14	0.10
		HCN	<0.01	<0.01
10LTR-061	Truck Loading	VOC	5.12	0.92
		NH_3	<0.01	<0.01
		HCN	<0.01	<0.01
10LTR-071	HCl Solution Loading	HCl	0.15	0.02
10LTR-072	MDEA Truck Loading/Unloading	VOC	<0.01	<0.01
10LTR-073	Methanol Brine Truck Loading	VOC	0.20	<0.01
10LTR-074	Anti-foulant Unloading	VOC	0.01	<0.01
10LTR-087	Oil Unloading	VOC	<0.01	<0.01
10SCB-154	HCl Scrubber	HCl	0.40	0.04
10TFX-010	Fresh Ligand Tank	VOC	<0.01	<0.01
10TFX-027	REF ADN Tank No. 1	VOC	0.10	0.02
		HCN	<0.01	<0.01
10TFX-028	REF ADN Tank No. 2	VOC	0.10	0.02
		HCN	<0.01	<0.01
10TFX-029	REF ADN Tank No. 3	VOC	0.10	0.02
		HCN	<0.01	<0.01
10TFX-030	REF ADN Tank No. 4	VOC	0.10	0.02
		HCN	<0.01	<0.01
10TFX-031	REF ADN Tank No. 5	VOC	0.10	0.02
		HCN	<0.01	<0.01
10TFX-032	REF ADN Tank No. 6	VOC	0.10	0.02
		HCN	<0.01	<0.01
10TFX-032B	REF ADN Tank No. 7	VOC	0.06	0.05
		HCN	<0.01	<0.01
10TFX-033	North Raffinate Sphere (9)	VOC	13.56	0.03
		HCN	<0.01	<0.01
10TFX-034A	Middle Raffinate Sphere (9)	VOC	13.56	0.03
		HCN	<0.01	<0.01
10TFX-034B	South Raffinate Sphere (9)	VOC	13.56	0.03
		HCN	<0.01	<0.01
10TFX-035A	TG MGN Tank	VOC	0.47	0.16
		HCN	0.49	0.17
10TFX-036	REF MGN Tank	VOC	0.19	0.11
		HCN	0.08	0.09
10TFX-036A	Promoter PN Sphere	VOC	5.14	2.27
10TFX-037	Crude DN Tank	VOC	0.11	0.02

Emission Sources - Maximum Allowable Emission Rates

		HCN	0.03	0.01
10TFX-037A	Crude MGN Sphere	VOC	0.71	0.29
		HCN	0.75	0.36
10TFX-038	Ethylene Glycol Tank	VOC	0.18	<0.01
10TFX-047	Methanol Tank	VOC	21.83	0.14
10TFX-049A	Methanol Solution Mix Tank	VOC	2.18	0.02
10TFX-049B	Methanol Solution Tank (20%)	VOC	4.31	<0.01
10TFX-049C	Methanol Solution Tank (70%)	VOC	3.27	<0.01
10TFX-057	Storm Water Tank	VOC	0.08	<0.01
		HCN	0.85	0.01
10TFX-059	Ammonium Salt Tank	NH_3	0.08	<0.01
		VOC	0.01	<0.01
		HCN	<0.01	<0.01
10TFX-067	Produced Water Tank	NH_3	0.01	<0.01
		VOC	<0.01	<0.01
		HCN	<0.01	<0.01
10TFX-080	Barge Dock REF ADN Tank	VOC	0.45	0.18
		HCN	<0.01	<0.01
10TFX-085	MDEA Amine Tank	VOC	<0.01	<0.01
10TFX-086	Anti-foulant Tank	VOC	0.97	<0.01
10TFX-087	Oil Storage Skid	VOC	0.02	<0.01
10VNT-001	Feed Gas Analyzer Vent	NH_3	0.09	0.36
		VOC	0.01	0.01
		HCN	<0.01	<0.01
10VNT-002	HCN Sample Blower Vent	CO	0.01	0.01
		NH_3	0.19	0.01
		VOC	0.01	<0.01
		HCN	0.25	<0.01
10VNT-003	BD Column Gas Chromatographs	VOC	0.01	0.01
		HCN	<0.01	<0.01
10VNT-255	Pump Tank Scrubber and Closed Sump	CO	0.02	0.07
		VOC	0.14	0.53
		HCN	<0.01	<0.01
10VNT-255	Pump Tank Scrubber and Closed Sump MSS Emissions	CO	0.01	0.01
		HCN	37.50	0.23
		VOC	29.30	0.45
11TFX-036	HCN/HMD AWST	NH_3	<0.01	<0.01
		HCN	0.07	0.33
		VOC	0.34	1.48
11TFX-047	HCN/HMD HUT	NH_3	<0.01	<0.01
		HCN	0.06	0.25

Emission Sources - Maximum Allowable Emission Rates

		VOC	0.11	0.47
11TFX-048	Nitrile HUT	NH_3	<0.01	<0.01
		HCN	<0.01	0.01
		VOC	0.34	1.48
11TFX-053	RPF Filtrate Tank No. 1	NH_3	0.46	0.14
		VOC	<0.01	<0.01
11TFX-055	311 Area Wastewater Tank	NH_3	0.14	0.04
		VOC	0.02	0.01
11SEP-055A	API Decanter	NH_3	0.14	0.04
		VOC	0.02	0.01
11ODP-055B	Organics Dumpster	VOC	<0.01	<0.01
11TFX-064	NETZ Filter Feed Tank	NH_3	<0.01	<0.01
		HCN	<0.01	<0.01
		VOC	0.19	0.81
11TFX-070	NETZ Effluent Tank	NH_3	0.06	0.04
		HCN	0.01	<0.01
		VOC	0.09	0.06
11TFX-076	Waste Collection Tank	NH_3	0.11	0.07
		HCN	0.01	0.01
		VOC	0.17	0.12
11TFX-077	Waste Lift Tank	NH_3	0.01	<0.01
		HCN	<0.01	<0.01
		VOC	<0.01	<0.01
11TFX-153	Precoat Tank No. 1	NH_3	0.07	<0.01
		HCN	<0.01	<0.01
		VOC	0.02	<0.01
10RPF-001	Rotary Precoat Filter No. 1	NH_3	1.93	3.44
		VOC	0.28	0.54
		HCN	<0.01	<0.01
10RPF-002	RPF Conveyor/Bagger 1	NH_3	0.01	0.01
		VOC	0.01	0.01
10RPF-005	RPF Diatomaceous Earth Loading	PM_{10}	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
SO_2 - 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
HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C

Emission Sources - Maximum Allowable Emission Rates

Cl_2 - chlorine
H_2O_2 - hydrogen peroxide
HCl - hydrogen chloride
HCN - hydrogen cyanide
H_2S - hydrogen sulfide
NH_3 - ammonia

(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) This flare is authorized to operate for 336 hours per year and only when Flare 10FLR-005 is shut down for maintenance during an ADN unit turnaround. (01/08)
(7) Only one converter can be in startup mode at a time.
(8) Converter startups are limited to 36 total for all converters in a rolling 12-month period. (01/08)
(9) Only one of the three Raffinate spheres will be filled at any time.
(10) For Maximum Allowable Emission Rate Tables (MAERT) dated August 9, 2016 and earlier, the HCN allowable emission rate was included with the VOC allowable emission rate limit. For subsequent amendments, modified sources emitting HCN shall represent this rate as a separate HCN limit for this emission point. During the next renewal application, an amendment application shall be submitted to separate all remaining HCN emissions still included in the VOC limit and included them as separate HCN limits by EPN in the MAERT. The VOC emission rate limit shall be reduced accordingly when HCN is reported as a separate limit. This note shall be deleted once all HCN emission rate limits are shown separately.
(11) Effective project milestones for the new allowable emission rates are specified in Attachment E of the Special Conditions.

Date: January 28, 2021