

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 19886

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 *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
8-1-002	Pourer Furnace	PM ₁₀	0.01	0.05
		SO ₂	<0.01	<0.01
		NO _x	0.09	0.41
		CO	0.02	0.08
		VOC	<0.01	0.02
8-1-003	W-900A Recovery Vaporizer	PM ₁₀	0.09	0.40
		SO ₂	<0.01	0.02
		NO _x	0.75	3.28
		CO	0.15	0.66
		VOC	0.04	0.17
8-1-004	Strand Room Vent	VOC	1.66	7.97
8-1-008	B-1 Storage Tank	VOC	0.01	<0.01
8-1-009	B-23 Storage Tank	VOC	1.23	0.01
8-1-010	Propionic Acid Process Fugitives (4) 0.86		VOC	0.20
8-1-011	Hydrazine Process Fugitives (4) 0.02		H ₂ NNH ₂	<0.01
8-1-012	Bulk Storage Silos	PM ₁₀	0.69	2.97
		TSP	1.98	8.49
8-1-014	B-195 Process Vessel	VOC	<0.01	<0.01
8-1-015	B-63A Process Vessel	VOC	<0.01	<0.01

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8-1-017	D-900 Process Vessel	VOC	0.06	<0.01
8-1-018	D-920 Process Vessel	VOC	0.05	<0.01
8-1-019	D-940 Process Vessel	VOC	0.02	<0.01
8-1-020	D-950 Process Vessel	VOC	0.05	<0.01
8-1-021	D-984 Process Vessel	VOC	<0.01	<0.01
8-1-023	B-1000 Process Vessel	VOC	<0.01	<0.01
8-1-024	B-130A&B Process Vessel	VOC	0.34	0.01
8-1-025	B-143 Process Vessel	VOC	0.30	<0.01
8-1-026	A-27A Storage Tank	VOC	<0.01	<0.01
8-1-027	A-27B Storage Tank	VOC	0.02	<0.01
8-1-028	B-200 Process Vessel	VOC	<0.01	<0.01
8-1-030	Packaging Silos	PM ₁₀	0.69	2.97
		TSP	1.98	8.49
8-1-031	Cooling Towers	VOC	<0.01	<0.01
8-1-032	D-949 Process Vessel	VOC	<0.01	<0.01
8-1-033	D-945 Process Vessel	VOC	<0.01	0.02
8-1-035	T-907 Catalyst Scrubber	PM ₁₀	<0.01	<0.01
		TSP	0.01	0.05
8-1-036	B-27 Reactor Refeed Hoppers	PM ₁₀	0.02	0.02
		TSP	0.06	0.05

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
8-1-037	Recovered Caprolactam Loading 0.01		VOC	0.08
8-1-038	Spent Heating Fluid Loading	VOC	<0.01	<0.01
8-1-039	B-125 Hydrazine Storage Tank <0.01		H ₂ NNH ₂	<0.01
8-1-040	F-155 Solid Additive Hopper	PM ₁₀ TSP	0.46 0.68	1.97 2.94
8-1-041	Seal Pots	VOC	0.04	0.16
8-1-042	Slurry Drums	VOC	0.05	0.20
8-1-043	B-2 TAD Storage Tank	VOC	0.08	<0.01
8-1-044	TAD Process Fugitives (4)	VOC	0.01	0.05
8-1-006	W-30E Vaporizer (Continuously Running Back-up) <0.01	PM ₁₀ SO ₂	0.02 0.02	0.07 <0.01
		NO _x	0.14	0.61
		CO	0.03	0.12
		VOC	<0.01	0.03
8-1-300	W-40C Vaporizer (Reactor Train No. 3)	PM ₁₀ SO ₂ NO _x CO VOC	0.03 <0.01 0.28 0.06 0.02	0.15 <0.01 1.23 0.25 0.07
8-1-400	W-40D Vaporizer	PM ₁₀	0.03	0.15

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
	(Reactor Train No. 4)	SO ₂	<0.01	<0.01
		NO _x	0.28	1.23
		CO	0.06	0.25
		VOC	0.02	0.07
8-1-500	W-40E Vaporizer	PM ₁₀	0.03	0.15
	(Reactor Train No. 5)	SO ₂	<0.01	<0.01
		NO _x	0.28	1.23
		CO	0.06	0.25
		VOC	0.02	0.07
8-1-101	W-50C Vaporizer	PM ₁₀	0.06	0.24
		SO ₂	<0.01	0.01
		NO _x	0.47	2.05
		CO	0.09	0.41
		VOC	0.03	0.11

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
8-1-201	W-50D Vaporizer	PM ₁₀	0.06	0.24
		SO ₂	<0.01	0.01
		NO _x	0.47	2.05
		CO	0.09	0.41
		VOC	0.03	0.11
8-1-600	W-50F Vaporizer (Reactor Train No. 6)	PM ₁₀	0.06	0.24
		SO ₂	<0.01	0.01
		NO _x	0.47	2.05
		CO	0.09	0.41
		VOC	0.03	0.11
8-1-700	W-50G Vaporizer (Reactor Train No. 7)	PM ₁₀	0.06	0.24
		SO ₂	<0.01	0.01
		NO _x	0.47	2.05
		CO	0.09	0.41
		VOC	0.03	0.11
8-1-607	CY-94F1 Train 6 Separator Cyclone	PM ₁₀	0.10	0.40
		TSP	0.27	1.13
8-1-608	CY-94F2 Train 6 Separator Cyclone	PM ₁₀	0.10	0.40
		TSP	0.27	1.13
8-1-612	D-971 Process Vessel	VOC	<0.01	<0.01
8-1-701	CY-94G1 Train 7 Separator Cyclone	PM ₁₀	0.11	0.46
		TSP	0.30	1.32
8-1-702	CY-94G2 Train 7 Separator Cyclone	PM ₁₀	0.11	0.46
		TSP	0.30	1.32
8-1-045	D-990 Process Vessel	VOC	0.06	<0.01

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
8-1-046	B-66 Diesel Tank	VOC	0.07	<0.01

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Point No. (1)	Name (2)	Name (3)	lb/hr TPY
8-1-007	W-40S Back-up Vaporizer	PM ₁₀ SO ₂ NO _x CO VOC	For Back-up Use Only

(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 General Rule 101.1

PM₁₀ - particulate matter less than 10 microns in diameter

TSP - total suspended particulate matter including PM₁₀

TAD - triacetone diamine

H₂NNH₂ - hydrazine

NO_x - total oxides of nitrogen

CO - carbon monoxide

SO₂ - sulfur dioxide

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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

_____ Hrs/day _____ Days/week _____ Weeks/year or 8,760
Hrs/year

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

Dated _____