EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 27849

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>		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
1	Storage Tank 006 Vent	Na ₂ Cr ₂ O ₇	0.029	0.001	
3	Storage Tank 005 Vent	КОН	0.03	0.002	
4	Storage Tank 004 Vent	NaOH	0.02	<0.002	
6	Storage Tank 002 Vent	PFU Resin Phenol ** HCHO **	0.09 0.001 <0.00001	0.01 <0.0001 <0.00001	
8	Storage Tank 020 Vent	Fuel Oil	0.004	0.0001	
10	Storage Tank 014 Vent	Diesel	0.04	0.0003	
11	Storage Tank 015 Vent	Gasoline	20.08	0.40	
15	No. 10 Silo Baghouse Exhaust	Lignite PM ₁₀	0.04	0.01	
18	Nauta Mixer Bag Filter Vent	Lignite PM ₁₀ Methanol Ethanol Isopar M	0.78 15.00 50.00 10.00	1.25 0.89 7.60 1.99	
19	Storage Tank 003 Vent (Caustic Day Tank)	NaOH KOH	0.03 0.03	0.0012 0.0012	
20	Storage Tank 008 Vent (S-35-9 Polymer)	S-35-9 Isopar M ***	0.42 0.01	0.13 0.00034	

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AIR CONTAMINANTS DATA

Emission Point No. (1)		r Contaminant Name (3)	Emission lb/hr	Rates * TPY
21	Storage Tank 001 Vent (Resin)	PFU Resin Phenol ** HCHO **	0.09 0.001 <0.00001	0.01 <0.00007 <0.000001
22	Storage Tank 007 Vent (TR-70)	TR-70 Ethanol **** Methanol ****	1.32 1.00 0.21	0.12 0.04 0.01
27	Boiler Stack	$\begin{array}{c} PM_{10} \\ CO \\ NO_x \\ SO_2 \\ VOC \end{array}$	0.004 0.02 0.13 0.01 0.004	0.0009 0.004 0.03 0.002 0.001
28	Product Transfer Bag Filter Exhaust	Lignite PM ₁₀ Isopar M Ethanol Methanol	0.50 3.00 1.00 0.30	1.89 0.29 0.29 0.09
29	No. 1 Mill Bag Filter Exhaust	Lignite PM ₁₀ Fuel Oil (VOC) NO _x CO SO ₂ Isopar M Ethanol Methanol	0.78 0.045 2.17 0.20 1.26 313.41 58.60 17.58	2.95 0.20 9.52 0.87 5.50 68.00 13.51 3.14
30	No. 8 Dust Collector Exhaust	Lignite PM ₁₀	0.02	0.02
31	Storage Tank 021 Vent (Waste 0il)	Motor Oil	0.006	<0.00001
33	No. 2 or No. 3 Packer Bag Filter Exhaust	Lignite PM ₁₀	0.10	0.25

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AIR CONTAMINANTS DATA

Emission	Emission Source		Air Contaminant		<u>Emission Rates *</u>		
Point No. (1)	Name (2)		Name (3)		lb/hr	TPY	
34	No. 1 Packer Bag Filter Exhaust		Lignite	PM ₁₀	0.30	0.30	
36	No. 4 Dust Collector Exhaust		Lignite	PM ₁₀	0.04	0.04	
FUG-1	Building 11 (4)		Ethanol Methanol Isopar M		0.0033 0.0007 <0.0001	0.0086 0.0018 <0.00026	
FUG-2	Liquid Raw Material Unloading\Drumming	• •	S-35-9 Isopar M TR-70 Methanol Ethanol PFU Resi Phenol * HCHO ** Na ₂ Cr ₂ O ₇ KOH NaOH TI Sulfa	**** **** n :*	2.55 0.004 3.29 0.028 2.49 <0.01 0.001 <0.00001 <0.00002 <0.00002 <0.00001 0.03	0.04 <0.0007 0.02 0.0019 0.02 <0.002 <0.00002 <0.000001 <0.000077 <0.0004 0.0006	
FUG-3	Pump Seals (4)		Na ₂ Cr ₂ O ₇ NaOH/KOH PFU Resi		0.02 0.02 0.02	0.04 0.04 0.04	
FUG-4	Fueling Operations (4)	Diesel Gasoline Fuel Oil		0.29 13.98 <0.001	<0.04 0.08 <0.0001	
FUG-5	Rotary Transfer Valv 0.03	es (4)	Lignite 7	ГЅР	0.02	
	0.03		Lignite	PM_{10}	0.01	0.016	

FUG-6	Pump Seals (4)	Isopar M	<0.0008	<0.00022	
	•	Ethanol	0.03	0.01	
		Methanol	<0.004	0.0011	
		NaOH	0.02	0.04	
		PFU Resin	0.02	0.04	

- (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.

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(3) TSP - total suspended particulate, including PM_{10}

 PM_{10} - particulate matter less than 10 microns in diameter

VOC - volatile organic compounds as defined in General Rule 101.1

 NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide CO - carbon monoxide

Na₂Cr₂O₇ - sodium bichromate

KOH - potassium hydroxide

NaOH - sodium hydroxide

HCHO - formaldehyde

- (4) Fugitive emissions are an estimate only.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule and parameters:

H	lrs/	d	ayl	Days/	/weel	\	Wee	ks/	year	_or	Hrs/	'year_	<u>8,76</u>	0_

- * Hourly and Annual Production: Limited to rates specified on "confidential" page 3-8 dated January 28, 1996 of the permit application.
- ** Included in PFU Resin emission rate.
- *** Included in S-35-9 emission rate.
- **** Included in TR-70 emission rate.

Dated			