

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 3226

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)	Emission Rates	
			lb/hr	TPY
E-1 A	Brine Well Heater 0.3 MMBtu/hr	NO _x 0.03	0.07	
		CO	<0.01	0.01
		SO ₂ <0.01	<0.01	
		VOC	<0.01	<0.01
		PM	<0.01	0.01
E-1 B	Brine Well Heater 0.3 MMBtu/hr	NO _x 0.03	0.07	
		CO	<0.01	0.01
		SO ₂ <0.01	<0.01	
		VOC	<0.01	<0.01
		PM	<0.01	0.01
E-1 C	Brine Well Heater 0.3 MMBtu/hr	NO _x 0.03	0.07	
		CO	<0.01	0.01
		SO ₂ <0.01	<0.01	
		VOC	<0.01	<0.01
		PM	<0.01	0.01
E-1 D	Brine Well Heater 0.3 MMBtu/hr	NO _x 0.03	0.07	
		CO	<0.01	0.01
		SO ₂ <0.01	<0.01	
		VOC	<0.01	<0.01
		PM	<0.01	0.01
E-1 F	Brine Tank Heater 3 MMBtu/hr	NO _x 0.30	0.66	
		CO	0.06	0.14
		SO ₂ <0.01	<0.01	
		VOC	0.01	0.02
		PM	0.04	0.08

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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>

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	<u>TPY</u>
E-1 G	Brine Well Heater 0.3 MMBtu/hr	NO _x 0.03	0.07	
		CO	<0.01	0.01
		SO ₂ <0.01	<0.01	
		VOC	<0.01	<0.01
		PM	<0.01	0.01
E-1 H	Brine Well Heater 0.3 MMBtu/hr	NO _x 0.03	0.07	
		CO	<0.01	0.01
		SO ₂ <0.01	<0.01	
		VOC	<0.01	<0.01
		PM	<0.01	0.01
E-1 I	Brine Well Heater 0.3 MMBtu/hr	NO _x 0.03	0.07	
		CO	<0.01	0.01
		SO ₂ <0.01	<0.01	
		VOC	<0.01	<0.01
		PM	<0.01	0.01
E-1 J	Brine Well Heater 0.3 MMBtu/hr	NO _x 0.03	0.07	
		CO	<0.01	0.01
		SO ₂ <0.01	<0.01	
		VOC	<0.01	<0.01
		PM	<0.01	0.01
E-1 K	Brine Well Heater 0.3 MMBtu/hr	NO _x 0.03	0.07	
		CO	<0.01	0.01
		SO ₂ <0.01	<0.01	
		VOC	<0.01	<0.01
		PM	<0.01	0.01
E-1 L	Brine Well Heater 0.3 MMBtu/hr	NO _x 0.03	0.07	
		CO	<0.01	0.01
		SO ₂ <0.01	<0.01	
		VOC	<0.01	<0.01
		PM	<0.01	0.01

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	<u>TPY</u>
E-1 M	Brine Well Heater 0.3 MMBtu/hr	NO _x 0.03	0.07	
		CO	<0.01	0.01
		SO ₂ <0.01	<0.01	
		VOC	<0.01	<0.01
		PM	<0.01	0.01
E-4	Product Dryer Baghouse	NO _x 1.61	4.07	
		CO	0.40	0.86
		SO ₂ 0.01	0.02	
		VOC	0.03	0.16
		PM ₁₀ (5)	0.53	2.17
E-5	Fire Tube Boiler	NO _x 4.69	20.53	
		CO	1.17	5.13
		SO ₂ 0.48	2.09	
		VOC	0.09	0.41
		PM	0.46	2.01
E-6 A	Truck Loading Baghouse	PM ₁₀ (Na ₂ SO ₄)	0.21	0.08
E-6 B	Truck Loading Fugitives (4)	PM (Na ₂ SO ₄)	1.5	1.37
		PM ₁₀ (Na ₂ SO ₄)	1.5	1.37
E-7 A	Storage Tank No. 3 Standby Baghouse	PM ₁₀ (Na ₂ SO ₄)	0.10	0.45
E-7 B	Storage Tank No. 4 Standby Baghouse	PM ₁₀ (Na ₂ SO ₄)	0.10	0.45
E-8	Emergency Lighting Generator	NO _x 1.41	0.08	
		CO	0.31	0.02
		SO ₂ 0.09	0.01	
		VOC	0.11	0.01
		PM	0.10	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>

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
E-9	Emergency Field Generator	NO _x 5.16	0.31	
		CO	1.12	0.07
		SO ₂ 0.34	0.02	
		VOC	0.41	0.03
		PM	0.37	0.02
E-10	Magnetic Particle Separator Baghouse	PM ₁₀ (Na ₂ SO ₄)	0.05	0.23
E-12 A	Bin Vent Tank No. 1	PM ₁₀ (Na ₂ SO ₄)	<0.01	<0.01
E-12 B	Bin Vent Tank No. 2	PM ₁₀ (Na ₂ SO ₄)	<0.01	<0.01
E-12 C	Bin Vent Tank No. 3	PM ₁₀ (Na ₂ SO ₄)	<0.01	<0.01
E-12 D	Bin Vent Tank No. 4	PM ₁₀ (Na ₂ SO ₄)	<0.01	<0.01
E-12 E	Bin Vent Tank No. 5	PM ₁₀ (Na ₂ SO ₄)	<0.01	<0.01
E-12 F	Bin Vent Tank No. 6	PM ₁₀ (Na ₂ SO ₄)	<0.01	<0.01
E-12 G	Bin Vent Tank No. 7	PM ₁₀ (Na ₂ SO ₄)	<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.

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- (3) PM - particulate matter including PM₁₀
PM₁₀ - particulate matter less than 10 microns
VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
Na₂SO₄ - sodium sulfate
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) This emission rate represents the combination of PM₁₀ resulting from the drying of Na₂SO₄ and the combustion of fuel.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Emission Point Nos. (EPNs) E-8 and E-9:

Hrs/day _____ Days/week _____ Weeks/year _____ or Hrs/year 120

EPNs E-1 (A, B, C, D, F, G, H, I, J, K, L, and M):

Hrs/day _____ Days/week _____ Weeks/year _____ or Hrs/year 4,380

EPNs E-4, E-5, E-6 (A and B), E-7 (A and B), E-10, E-11, E-12
(A, B, C, D, E, F, and G), and Fugitives:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year 8,760

Dated _____