

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 22622

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
1A, 3, and 189	Incinerator/Waste Heat Boiler, (5) Incinerator/WHB/Preheater, and Boiler (Combined annual emissions from all three EPNs)	PM ₁₀		15.03
		SO ₂		130.5
		NO _x		25.94
		CO		37.87
		VOC		15.02
		H ₂ S		0.56
		HCl		1.35
		Benzene		7.80
		Ethyl Benzene		7.42
		HAPS		2.25
1A	Incinerator/Waste (5 and 6) Heat Boiler	PM ₁₀	1.53	
		SO ₂	13.34	
		NO _x	2.61	
		CO	3.83	
		VOC	1.53	
		H ₂ S	0.06	
		HCl	0.14	
		Benzene	0.80	
		Ethyl Benzene	0.76	
		HAPS	0.23	
3	Incinerator/WHB/Preheater (5 and 6)	PM ₁₀	4.60	
		SO ₂	40.02	
		NO _x	7.92	
		CO	11.60	
		VOC	4.60	
		H ₂ S	0.17	
		HCl	0.41	
		Benzene	2.40	
		Ethyl Benzene	2.30	
		HAPS	0.69	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY</u>
189	Boiler Stack (5 and 6)	PM ₁₀	0.10	
		SO ₂	0.01	
		NO _x	1.26	
		CO	1.06	
		VOC	0.07	
		HAPS	<0.0012	
312	Preheater Stack (5)	PM ₁₀	0.038	0.167
		SO ₂	0.003	0.013
		NO _x	0.50	2.19
		CO	0.420	1.84
		VOC	0.028	0.121
		HAPS	0.00043	<0.002
221	Tank 1 Heater (5)	PM ₁₀	0.011	0.05
		SO ₂	0.001	0.004
		NO _x	0.150	0.657
		CO	0.130	0.552
		VOC	0.008	0.036
		HAPS	0.00013	<0.006
224	Tank 2 Heater (5)	PM ₁₀	0.011	0.05
		SO ₂	0.001	0.004
		NO _x	0.150	0.657
		CO	0.130	0.552
		VOC	0.008	0.036
		HAPS	0.00013	<0.006
227	Tank 3 Heater (5)	PM ₁₀	0.011	0.05
		SO ₂	0.001	0.004
		NO _x	0.150	0.657
		CO	0.130	0.552
		VOC	0.008	0.036
		HAPS	0.00013	<0.006
230	Tank 4 Heater (5)	PM ₁₀	0.011	0.05

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			lb/hr	TPY
		SO ₂	0.001	0.004
		NO _x	0.150	0.657
		CO	0.130	0.552
		VOC	0.008	0.036
		HAPS	0.00013	<0.006
233	Tank 6 Heater (5)	PM ₁₀	0.006	0.027
		SO ₂	0.0005	0.002
		NO _x	0.080	0.351
		CO	0.07	0.295
		VOC	0.004	0.020
		HAPS	0.00007	<0.001
236	Tank 13 Heater (5)	PM ₁₀	0.006	0.027
		SO ₂	0.0005	0.002
		NO _x	0.080	0.351
		CO	0.07	0.295
		VOC	0.004	0.020
		HAPS	0.00007	<0.001
239	Tank 14 Heater 1 (5)	PM ₁₀	0.019	0.083
		SO ₂	0.002	0.007
		NO _x	0.250	1.100
		CO	0.210	0.920
		VOC	0.014	0.06
		HAPS	0.00022	<0.001
240	Tank 14 Heater 2 (5)	PM ₁₀	0.019	0.083
		SO ₂	0.002	0.007
		NO _x	0.250	1.100
		CO	0.210	0.920
		VOC	0.014	0.06
		HAPS	0.00022	<0.001
243	Tank 15 Heater 1 (5)	PM ₁₀	0.019	0.083

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		SO ₂	0.002	0.007
		NO _x	0.250	1.100
		CO	0.210	0.920
		VOC	0.014	0.06
		HAPS	0.00022	<0.001
244	Tank 15 Heater 2 (5)	PM ₁₀	0.019	0.083
		SO ₂	0.002	0.007
		NO _x	0.250	1.100
		CO	0.210	0.920
		VOC	0.014	0.06
		HAPS	0.00022	<0.001
247	Tank 16 Heater (5)	PM ₁₀	0.006	0.027
		SO ₂	0.0005	0.002
		NO _x	0.080	0.351
		CO	0.07	0.295
		VOC	0.004	0.020
		HAPS	0.00007	<0.001
250	Tank 17 Heater 1 (5)	PM ₁₀	0.019	0.083
		SO ₂	0.002	0.007
		NO _x	0.250	1.100
		CO	0.210	0.920
		VOC	0.014	0.06
		HAPS	0.00022	<0.001
251	Tank 17 Heater 2 (5)	PM ₁₀	0.019	0.083
		SO ₂	0.002	0.007
		NO _x	0.250	1.100
		CO	0.210	0.920
		VOC	0.014	0.06
		HAPS	0.00022	<0.001
254	Tank 18 Heater (5)	PM ₁₀	0.006	0.027

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			lb/hr	TPY
		SO ₂	0.0005	0.002
		NO _x	0.080	0.351
		CO	0.07	0.295
		VOC	0.004	0.020
		HAPS	0.00007	<0.001
271 and FUG-2	Asphalt Tank Car (4 and 7) Unloading	PM	0.0012	<0.003
		PM ₁₀	0.0001	<0.001
		CO	0.1173	0.122
		H ₂ S	0.1137	0.118
		VOC(a)	0.0041	0.009
217, 218, and 219	Asphalt Truck Loading (5 and 7) Racks	PM	0.132	0.092
		PM ₁₀	0.013	0.009
		CO	0.257	0.085
		VOC(a)	0.479	0.57
		H ₂ S	0.039	0.02
		HAPS	0.0003	<0.001
258	Tank 20	VOC	0.022	<0.001
280 and 282 through 286	Pouring Sheds A, B, (7) and C	PM	0.986	0.779
		PM ₁₀	0.0986	0.078
		CO	0.045	0.035
		VOC(a)	3.50	2.76
		H ₂ S	0.0011	<0.001
287	Asphalt Solvent (5) Cold Cleaner	VOC	0.075	0.330
		HAPS	0.0059	0.024
311	Cutter Stock Loading System	VOC	46.97	3.41
313	Asphalt Solvent (5) Cold Cleaner	VOC	0.075	0.330
		HAPS	0.0004	<0.002

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY</u>
23-A, 23-B, 23-C, and 23-D	Cooling Stack (7)	PM	6.72	26.38
		PM ₁₀	2.02	7.91
		VOC	2.35	9.23
4	Filler Silo Baghouse	PM ₁₀	0.18	0.79
		HAPS 0.00054	0.002	
5	Filler Hopper Baghouse	PM ₁₀	0.10	0.45
		HAPS 0.00036	<0.002	
6	Filler Heater Baghouse	PM	0.02	0.08
		HAPS	0.00036	<0.002
10	Sand Silo Baghouse	PM ₁₀	0.002	0.009
		HAPS	0.0011	0.004
11	Process Dust Collector	PM ₁₀	0.02	0.08
		VOC	0.50	1.95
		HAPS 0.00036	<0.002	
16	Filler Oil Heater	PM ₁₀	0.114	0.50
		SO ₂	0.009	0.04
		NO _x	1.50	6.57
		CO	1.26	5.52
		VOC	0.083	0.36
		HAPS	0.0013	<0.006
18	Process Oil Heater	PM ₁₀	0.095	0.416
		SO ₂	0.007	0.033
		NO _x	1.25	5.475

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY</u>
		CO	1.05	4.599
		VOC	0.069	0.301
		HAPS	0.0011	<0.005
164	Sealant Tank	PM ₁₀	0.024	0.003
		CO	0.854	0.035
		VOC	0.832	0.0107
		H ₂ S	0.114	0.006
318	Hot Oil Heater No. 2 (5) 4 MM BTU	PM ₁₀	0.03	0.13
		SO ₂	<0.001	0.01
		NO _x	0.40	1.75
		CO	0.34	1.47
		VOC	0.02	0.10
		HAPS	0.0004	<0.002
319	Hot Oil Heater No. 1 (5) 2 MM BTU	PM ₁₀	0.02	0.07
		SO ₂	<0.0013	0.01
		NO _x	0.20	0.88
		CO	0.17	0.74
		VOC	0.01	0.05
		HAPS	0.0002	<0.001
320	4 Wide RTO Stack (8)	PM ₁₀	0.14	0.55
		SO ₂	0.57	2.25
		NO _x	0.16	0.70
		CO	0.14	0.63
		VOC	0.25	0.99
		HAPS	0.056	0.206
321 and 322	6 Wide Bldg Vents (8)	PM	2.95	12.46
		PM ₁₀	1.40	5.93
		VOC	3.28	13.85

		HAPS	0.298	1.27
323	6 Wide Upper Filler Bin (8)	PM ₁₀	0.09	0.38
		HAPS	0.0003	0.001
327	6 Wide Lower Filler Bin (8)	PM ₁₀	0.006	0.02
		HAPS	0.0003	0.001
324	6 Wide Process Dust Collector (8)	PM ₁₀	0.04	0.20
		VOC	0.35	1.48
		HAPS	0.0003	0.001
325	6 Wide RTO Stack (8)	PM ₁₀	0.192	0.81
		SO ₂	2.74	11.87
		NO _x	0.16	0.70
		CO	0.187	0.82
		VOC	0.364	1.54
		HAPS	0.093	0.40
326	Bulk Filler Silo No. 2 (8)	PM ₁₀	0.09	0.38
		HAPS	0.0003	0.001
333	Filler Silo No. 2	PM ₁₀	0.18	0.76
	Transfer Conveyor (8)	HAPS	0.0006	0.002
328	Preheater (8)	PM ₁₀	0.019	0.083
		SO ₂	0.002	0.007
		NO _x	0.25	1.095
		CO	0.21	0.92
		VOC	0.014	0.06
		HAPS	0.0002	<0.001

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
330	Bulk Prime Storage	PM ₁₀	0.09	0.35
331	Bulk Headlap Granule Storage	PM ₁₀	0.07	0.33

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources use area name or fugitive source name.
- (3) PM - particulate matter suspended in the atmosphere, including PM₁₀.
 PM₁₀ - particulate matter of 10 microns or less in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
 SO₂ - sulfur dioxide
 NO_x - total oxides of nitrogen
 VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1.
 VOC(a) - asphalt fumes
 H₂S - hydrogen sulfide
 HCl - hydrogen chloride
 HAPS - any of the Section 112(b), Federal Clean Air Act named compounds
 CO - carbon monoxide
- (4) Fugitive emissions are an estimate only.
- (5) HAPS included in PM and VOC emission rates. H₂S, HCl, benzene, and ethyl benzene are not included in HAPS value. Speciated emissions are reflected on the Table 1(a) in the permit file.
- (6) For annual emissions see EPNs 1A, 3, and 189. These sources shall not operate simultaneously.
- (7) Total emissions from all listed EPNs.
- (8) All HAPS included in PM and/or VOC emission rates.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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

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

Maximum hourly asphalt blowing throughput and a maximum annual throughput of asphalt are shown by the confidential Owens Corning Fiberglas emission calculations dated June 1999 with revision pages dated July 28, 1999 and located in the confidential file.

Dated July 17, 2000