

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 21768

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
Roofing Plant				
R-1	Coater Stack (5)	PM/PM <sub>10</sub>	1.83	4.99
		VOC	8.56	23.41
		CO	0.46	1.55
		SO <sub>2</sub>	0.28	0.75
		HAP(s)	0.45	1.24
R-2	Filler Heater Stack (5)	PM/PM <sub>10</sub>	0.02	0.09
		VOC	0.02	0.07
		CO	0.24	1.03
		NO <sub>x</sub>	0.28	1.23
		SO <sub>2</sub>	<0.01	0.01
		HAP(s)	<0.01	<0.01
R-3 and R-4	Cooling Section Stacks 1 and 2 (5)	PM	5.54	15.23
		PM <sub>10</sub>	1.66	4.57
		VOC	1.29	3.56
		HAP(s)	0.16	0.45
R-5, R-6, and R-7	General Ventilation Vents 1, 2, and 3 (5)	PM	1.54	4.20
		PM <sub>10</sub>	0.77	2.10
		VOC	3.65	9.98
		HAP(s)	<0.01	0.03

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

R8	Hot Oil Heater Stack (5)	PM/PM <sub>10</sub>	0.01	0.05
		VOC	0.01	0.04
		CO	0.13	0.55
		NO <sub>x</sub>	0.15	0.66
		SO <sub>2</sub>	<0.01	<0.01
		HAP(s)	<0.01	<0.01
R-15	Roofing Line Process Dust Collector Stack (Filler Lower Surge Hopper, Parting Agent Storage, Asphalt Filler Mixer, Material Surfacing Area) (5)	PM/PM <sub>10</sub>	1.72	7.51
		VOC	0.19	0.53
		HAP(s)	<0.01	<0.01
R-18A/R-18C	Surfacing Material Rail and Truck Unloading (4)	PM	0.13	0.38
		PM <sub>10</sub>	0.06	0.18
R-9	Filler Storage Silo Baghouse Stack	PM/PM <sub>10</sub>	0.09	0.39
R-10	Filler Upper Surge Hopper Baghouse Stack	PM/PM <sub>10</sub>	0.10	0.45
R-86A	Solvent Cold Cleaner	VOC	0.22	0.95
CECO-1	Fiber Bed Filter (Sealant Mix Tank,	PM/PM <sub>10</sub>	0.28	0.26
		VOC	9.92	9.29

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

	Adhesive Mix Tank,	H <sub>2</sub> S	1.04	1.77
	Adhesive Bulk Tank,	CO	7.68	8.29
	Adhesive Applicator,	HAP(s)	0.01	0.02
	Sealant Applicator,			
	Sealant Use Tank,			
	Adhesive Use Tank,			
	Sealant Melt Tank 1,			
	and			
	Sealant Melt Tank 2)			
R-30	Sealant Filler Hopper	PM/PM <sub>10</sub>	0.01	0.04
	Bin			
	Vent Filter			
R-33	Adhesive Filler Hopper	PM/PM <sub>10</sub>	0.01	0.04
	Bin Vent Filter			
R-36	Hot Oil Heater	PM/PM <sub>10</sub>	<0.01	0.03
		VOC	<0.01	0.02
		CO	0.08	0.37
		NO <sub>x</sub>	0.10	0.44
		SO <sub>2</sub>	<0.01	<0.01
		HAP(s)	<0.01	<0.01
<u>Asphalt Plant</u>				
A-1	Fume Incinerator Stack	PM/PM <sub>10</sub>	4.01	16.72
	(Spider Tube Burn Off	VOC	0.67	2.79
	Box, Converter No. 5	NO <sub>x</sub>	1.56	6.51
	and	SO <sub>2</sub>	22.34	93.20
	Converter No. 6) (5,6)	CO	11.37	47.43
		H <sub>2</sub> S	0.22	0.93
		HCl	6.56	2.67
		HAP(s)	6.82	3.70
R-14	Asphalt Preheater No. 1	PM/PM <sub>10</sub>	0.06	0.28
	Stack (5)	VOC	0.05	0.20
		CO	0.70	3.08
		NO <sub>x</sub>	0.84	3.67
		SO <sub>2</sub>	0.01	0.02
		HAP(s)	<0.01	<0.01

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R16	Adhesive Hot Oil Heater	PM/PM <sub>10</sub>	<0.01	0.02
		VOC	0.01	0.01
		CO	0.04	0.19
		NO <sub>x</sub>	0.05	0.22
		SO <sub>2</sub>	<0.01	<0.01
A-2	Asphalt Preheater No. 2 Stack (5)	PM/PM <sub>10</sub>	0.04	0.17
		VOC	0.03	0.12
		CO	0.42	1.84
		NO <sub>x</sub>	0.50	2.19
		SO <sub>2</sub>	<0.01	0.01
		HAP(s)	<0.01	<0.01
A-15 and A-16	Front Loading Rack and Specialty Loading Rack Fugitives (4)	PM/PM <sub>10</sub>	0.92	0.17
		VOC	3.25	0.59
		CO	0.17	0.10
		H <sub>2</sub> S	0.02	0.01
A-123	Cutter Stock Loading (4)	VOC	0.06	0.01
A-7, A-9, and A-12	North Pouring Shed (North), North Pouring Shed (Center), and BM Pouring Shed Fugitives (4)	PM/PM <sub>10</sub>	2.28	1.09
		VOC	8.09	3.87
		CO	0.68	1.19
		H <sub>2</sub> S	0.09	0.16
		C <sub>4</sub> H <sub>6</sub> O <sub>2</sub>	0.91	1.61
A-122	Solvent Cold Cleaner Fugitives (4)	VOC	0.08	0.33
A-124	East RTO (Tanks 11, 12, 16, 28, 30, 31, 32, 33, Blend Tank No. 4, and The Specialty Truck Loading Rack)	PM/PM <sub>10</sub>	0.72	0.38
		VOC	2.56	1.36
		CO	0.69	0.89
		NO <sub>x</sub>	0.08	0.04
		SO <sub>2</sub>	4.25	12.67
		H <sub>2</sub> S	0.12	0.35
A-125	West RTO (Tanks 1, 2, 3, 4, 19, 20, 21, 22, 25, 26, and the Front Truck	PM/PM <sub>10</sub>	0.86	0.47
		VOC	3.07	1.67
		CO	0.15	0.32
		NO <sub>x</sub>	0.09	0.05
		SO <sub>2</sub>	3.44	13.47

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A68, A102, A69, A76, A77, A78, A79	Loading Rack	H <sub>2</sub> S	0.10	0.38
	Tank Burners 11, 16, 19, 30, 31, 32, and 33 (5,6)	PM/PM <sub>10</sub>	0.04	0.19
		VOC	0.03	0.13
		CO	0.47	2.06
		NO <sub>x</sub>	0.56	2.45
		SO <sub>2</sub>	<0.01	0.02
		HAP(s)	<0.01	<0.01
A75	Tank Burner 28 (5)	PM/PM <sub>10</sub>	0.01	0.03
		VOC	0.01	0.02
		CO	0.08	0.37
		NO <sub>x</sub>	0.10	0.44
		SO <sub>2</sub>	<0.01	<0.01
		HAP(s)	<0.01	<0.01
A64, A65, A70, A71, A72, A127, A129	Tank Burners 1, 2, 20, 21, 22, 25, 26 (5)	PM/PM <sub>10</sub>	0.08	0.35
		VOC	0.06	0.25
		CO	0.88	3.86
		NO <sub>x</sub>	1.05	4.60
		SO <sub>2</sub>	<0.01	0.03
		HAP(s)	<0.01	<0.01
A109	Asphalt Truck Unloading	VOC	0.28	0.28
A110	Asphalt Railcar Unloading	VOC	0.32	0.32

- (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 an area name or fugitive source name.
- (3) PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>  
PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
NO<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - sulfur dioxide  
SO<sub>x</sub> - sulfur oxides  
CO - carbon monoxide  
HCl - hydrogen chloride/hydrochloric acid (HAP)  
H<sub>2</sub>S - hydrogen sulfide  
C<sub>4</sub>H<sub>6</sub>O<sub>2</sub> - vinyl acetate (HAP)

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HAP(s) - hazardous air pollutant(s) as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C

- (4) Fugitive emissions.
- (5) HAPs are included in the PM and VOC maximum allowable emission quantities. Speciated HAPs emission values are listed on the Table 1(a)s in the permit file.
- (6) HAPs listed include HCl.

Dated March 3, 2009