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, sources, and related activities. 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 (7)	
			lbs/hour	TPY (4)
Roofing Plant				
R-1	Coater Fiber Bed Filter Stack (5)	PM	0.38	1.04
		PM_{10}	0.38	1.04
		VOC	8.56	23.41
		CO	0.46	1.55
		SO_2	0.28	0.75
		HAP(s)	0.45	1.24
R-2	Filler Heater Stack (5)	PM	0.02	0.09
		PM_{10}	0.02	0.09
		VOC	0.02	0.07
		CO	0.24	1.03
		NO_x	0.28	1.23
		SO_2	<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_{10}	1.66	4.57
		VOC	1.29	3.56
		HAP(s)	0.16	0.45

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R-5, R-6, and R-7	General Ventilation Vents 1, 2, and 3 (5)	PM	1.54	4.20
		PM_{10}	0.77	2.10
		VOC	3.65	9.98
		HAP(s)	<0.01	0.03
R8	Hot Oil Heater Stack (5)	PM	0.01	0.05
		PM_{10}	0.01	0.05
		VOC	0.01	0.04
		CO	0.13	0.55
		NO_x	0.15	0.66
		SO_2	<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	1.72	7.51
		PM_{10}	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_{10}	0.06	0.18
R-9	Filler Storage Silo Baghouse Stack	PM	0.09	0.39
		PM_{10}	0.09	0.39
R-10	Filler Upper Surge Hopper Baghouse Stack	PM	0.10	0.45
		PM_{10}	0.10	0.45
R-86A	Solvent Cold Cleaner	VOC	0.22	0.95
CECO-1	Fiber Bed Filter (Sealant Mix Tank,	PM	0.28	0.26

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		PM_{10}	0.28	0.26
		VOC	9.92	9.29
		H_2S	1.04	1.77
		CO	7.68	8.29
		HAP(s)	0.01	0.02
R-30	Sealant Filler Hopper Bin Vent Filter	PM	0.01	0.04
		PM_{10}	0.01	0.04
R-33	Adhesive Filler Hopper Bin Vent Filter	PM	0.01	0.04
		PM_{10}	0.01	0.04
R-36	Hot Oil Heater	PM	<0.01	0.03
		PM_{10}	<0.01	0.03
		VOC	<0.01	0.02
		CO	0.08	0.37
		NO_x	0.10	0.44
		SO_2	<0.01	<0.01
		HAP(s)	<0.01	<0.01
Asphalt Plant				
A-1	Fume Incinerator Stack(Spider Tube Burn Off Box, Converter No. 5 and Converter No. 6) (5,6)	PM	4.01	16.72
		PM_{10}	4.01	16.72
		VOC	0.67	2.79
		NO_x	1.56	6.51
		SO_2	22.34	93.20
		CO	11.37	47.43
A-1	Fume Incinerator Stack(Spider Tube Burn Off Box, Converter No. 5 and Converter No. 6)	H_2S	0.22	0.93
		HCl	6.56	2.67
		HAP(s)	6.82	3.70

Emission Sources - Maximum Allowable Emission Rates

	(5,6)			
R-14	Asphalt Preheater No. 1 Stack (5)	PM	0.06	0.28
		PM_{10}	0.06	0.28
		VOC	0.05	0.20
		CO	0.70	3.08
		NO_x	0.84	3.67
		SO_2	0.01	0.02
		HAP(s)	<0.01	<0.01
R-16	Adhesive Hot Oil Heater	PM	<0.01	0.02
		PM_{10}	<0.01	0.02
		VOC	0.01	0.01
		CO	0.04	0.19
		NO_x	0.05	0.22
		SO_2	<0.01	<0.01
A-2	Asphalt Preheater No. 2 Stack (5)	PM	0.04	0.17
		PM_{10}	0.04	0.17
		VOC	0.03	0.12
		CO	0.42	1.84
		NO_x	0.50	2.19
		SO_2	<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	0.92	0.17
		PM_{10}	0.92	0.17
		VOC	3.25	0.59
		CO	0.17	0.10
		H_2S	0.02	0.01

Emission Sources - Maximum Allowable Emission Rates

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	2.28	1.09
		PM_{10}	2.28	1.09
		VOC	8.09	3.87
		CO	0.68	1.19
		H_2S	0.09	0.16
		$C_4H_6O_2$	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	0.72	0.38
		PM_{10}	0.72	0.38
		VOC	2.56	1.36
		CO	0.69	0.89
		NO_x	0.08	0.04
		SO_2	4.25	12.67
		H_2S	0.12	0.35
A-125	West RTO (Tanks 1, 2, 3, 4, 19, 20, 21, 22, 25, 26, and the Front Truck Loading Rack	PM	0.86	0.47
A-125	West RTO (Tanks 1, 2, 3, 4, 19, 20, 21, 22, 25, 26, and the Front Truck Loading Rack	PM_{10}	0.86	0.47
		VOC	3.07	1.67
		CO	0.15	0.32
		NO_x	0.09	0.05
		SO_2	3.44	13.47
		H_2S	0.10	0.38
A68, A102, A69, A76, A77, A78, and A79	Tank Burners 11, 16, 19, 30, 31, 32, and	PM	0.04	0.19

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		PM_{10}	0.04	0.19
		VOC	0.03	0.13
		CO	0.47	2.06
		NO_x	0.56	2.45
		SO_2	<0.01	0.02
		HAP(s)	<0.01	<0.01
A75	Tank Burner 28 (5)	PM	0.01	0.03
		PM_{10}	0.01	0.03
		VOC	0.01	0.02
		CO	0.08	0.37
		NO_x	0.10	0.44
		SO_2	<0.01	<0.01
		HAP(s)	<0.01	<0.01
A64, A65, A70, A71, A72, A127, and A129	Tank Burners 1, 2, 20, 21, 22, 25, and 26 (5)	PM	0.08	0.35
		PM_{10}	0.08	0.35
		VOC	0.06	0.25
A64, A65, A70, A71, A72, A127, and A129	Tank Burners 1, 2, 20, 21, 22, 25, and 26 (5)	CO	0.88	3.86
		NO_x	1.05	4.60
		SO_2	<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 plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.

Emission Sources - Maximum Allowable Emission Rates

(3) PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
CO - carbon monoxide
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
H_2S - hydrogen sulfide
HCl - hydrogen chloride/hydrochloric acid (HAP)
$C_4H_6O_2$ - vinyl acetate (HAP)

(4) Fugitive emissions.

(5) The HAPs are included in the PM and VOC maximum allowable emission quantities. Speciated HAPs emission values are listed on the Table 1(a) in the permit file.

(6) HAPs listed include HCl.

(7) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Dated: April 17, 2013