Emission Sources - Maximum Allowable Emission Rates

Permit Number 81011

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 (6)	
			lbs/hour	TPY (4)
3	Fume Incinerator/ Preheater/Waste Heat Boiler Stack (3 Asphalt Blowing Stills/Converters, 15 Asphalt Plant Active Storage Tanks, Asphalt Truck Loading Racks)	PM	5.40	14.82
		PM_{10}	5.40	14.82
		VOC	9.69	12.79
		CO	28.63	119.66
		NO_x	5.58	24.03
		SO_2	38.92	160.08
		H_2S	0.32	1.25
		CH_2O	0.01	0.03
		COS	0.01	0.01
		HAPs (5)	0.64	2.65
189	Process Steam Generator Boiler	PM	0.09	0.41
		PM_{10}	0.09	0.41
		VOC	0.07	0.30
		CO	1.04	4.54
		NO_x	1.24	5.41
		SO_2	0.01	0.03
		CH_2O	<0.01	<0.01
		HAPs (5)	0.02	0.10

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217, 218, 219	Asphalt Loading Rack Fugitives and BD Oil Loading System Fugitives (4)	PM	0.61	0.18
		PM_{10}	0.61	0.18
		VOC	36.78	1.24
		CO	0.25	1.11
		COS	<0.01	<0.01
		H_2S	0.03	0.15
		CH_2O	<0.01	<0.01
		HAPs (5)	<0.01	<0.01
221	Tank 1 Heater	PM	0.01	0.05
		PM_{10}	0.01	0.05
		VOC	0.01	0.04
		CO	0.12	0.54
		NO_x	0.15	0.64
		SO_2	<0.01	<0.01
		CH_2O	<0.01	<0.01
		HAPs (5)	<0.01	0.01
224	Tank 2 Heater	PM	0.01	0.05
		PM_{10}	0.01	0.05
		VOC	0.01	0.04
		CO	0.12	0.54
		NO_x	0.15	0.64
		SO_2	<0.01	<0.01
		CH_2O	<0.01	<0.01
224	Tank 2 Heater	HAPs (5)	<0.01	0.01
227	Tank 3 Heater	PM	0.01	0.05

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.01	0.05
		VOC	0.01	0.04
		CO	0.12	0.54
		NO_x	0.15	0.64
		SO_2	<0.01	<0.01
		CH_2O	<0.01	<0.01
		HAPs (5)	<0.01	0.01
230	Tank 4 Heater	PM	0.01	0.05
		PM_{10}	0.01	0.05
		VOC	0.01	0.04
		CO	0.12	0.54
		NO_x	0.15	0.64
		SO_2	<0.01	<0.01
		CH_2O	<0.01	<0.01
		HAPs (5)	<0.01	0.01
233	Tank 6 Heater	PM	0.01	0.03
		PM_{10}	0.01	0.03
		VOC	<0.01	0.02
		CO	0.07	0.29
		NO_x	0.08	0.34
		SO_2	<0.01	<0.01
233	Tank 6 Heater	CH_2O	<0.01	<0.01
		HAPs (5)	<0.01	0.01
236	Tank 13 Heater	PM	0.01	0.03
		PM_{10}	0.01	0.03

Emission Sources - Maximum Allowable Emission Rates

		VOC	<0.01	0.02
		CO	0.07	0.29
		NO_x	0.08	0.34
		SO_2	<0.01	<0.01
		CH_2O	<0.01	<0.01
		HAPs (5)	<0.01	0.01
239	Tank 14 Heater 1	PM	0.02	0.08
		PM_{10}	0.02	0.08
		VOC	0.01	0.06
		CO	0.21	0.90
		NO_x	0.25	1.07
		SO_2	<0.01	0.01
		CH_2O	<0.01	<0.01
		HAPs (5)	<0.01	0.02
240	Tank 14 Heater 2	PM	0.02	0.08
		PM_{10}	0.02	0.08
		VOC	0.01	0.06
		CO	0.21	0.90
		NO_x	0.25	1.07
240	Tank 14 Heater 2	SO_2	<0.01	0.01
		CH_2O	<0.01	<0.01
		HAPs (5)	<0.01	0.02
243	Tank 15 Heater 1	PM	0.02	0.08
		PM_{10}	0.02	0.08
		VOC	0.01	0.06

Emission Sources - Maximum Allowable Emission Rates

		CO	0.21	0.90
		NO_x	0.25	1.07
		SO_2	<0.01	0.01
		CH_2O	<0.01	<0.01
		HAPs (5)	<0.01	0.02
244	Tank 15 Heater 2	PM	0.02	0.08
		PM_{10}	0.02	0.08
		VOC	0.01	0.06
		CO	0.21	0.90
		NO_x	0.25	1.07
		SO_2	<0.01	0.01
		CH_2O	<0.01	<0.01
		HAPs (5)	<0.01	0.02
247	Tank 16 Heater	PM	0.01	0.03
		PM_{10}	0.01	0.03
		VOC	<0.01	0.02
		CO	0.07	0.29
247	Tank 16 Heater	NO_x	0.08	0.34
		SO_2	<0.01	<0.01
		CH_2O	<0.01	<0.01
		HAPs (5)	<0.01	0.01
250	Tank 17 Heater 1	PM	0.02	0.08
		PM_{10}	0.02	0.08
		VOC	0.01	0.06
		CO	0.21	0.90

Emission Sources - Maximum Allowable Emission Rates

		NO_x	0.25	1.07
		SO_2	<0.01	0.01
		CH_2O	<0.01	<0.01
		HAPs (5)	<0.01	0.02
254	Tank 17 Heater 2	PM	0.02	0.08
		PM_{10}	0.02	0.08
		VOC	0.01	0.06
		CO	0.21	0.90
		NO_x	0.25	1.07
		SO_2	<0.01	0.01
		CH_2O	<0.01	<0.01
		HAPs (5)	<0.01	0.02
254	Tank 18 Heater	PM	0.01	0.03
		PM_{10}	0.01	0.03
		VOC	<0.01	0.02
		CO	0.07	0.29
		NO_x	0.08	0.34
		SO_2	<0.01	<0.01
		CH_2O	<0.01	<0.01
		HAPs (5)	<0.01	0.01
258	Tank 20 (Diesel Storage)	VOC	<0.01	<0.01
280, 282, 283, 284,	Asphalt Pouring	PM	0.60	0.18

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.60	0.18
		VOC	2.14	0.65
		CO	0.10	0.03
		H_2S	0.05	0.01
		COS	0.07	0.02
		CH_2O	0.08	0.02
		HAPs (5)	1.97	0.60
287, 313, 414, 415	Asphalt Solvent Cold Cleaners and Roofing Solvent Fugitives (4)	VOC	<0.01	<0.01
4	3-Tab Line Filler Storage Silo Dust Collector Stack	PM	0.09	0.39
		PM_{10}	0.09	0.39
5	3-Tab Line Filler Upper Surge Hopper Dust Collector Stack	PM	0.05	0.23
		PM_{10}	0.05	0.23
6	3-Tab Line Filler Heater and Lower Surge Hopper Dust Collector Stack	PM	0.01	0.04
		PM_{10}	0.01	0.04
10	Lam Line Sand Storage Silo Dust Collector Stack	PM	0.05	0.23
		PM_{10}	0.05	0.23
11	3-Tab Line Process Dust Collector Stack	PM	0.01	0.04
		PM_{10}	0.01	0.04
		VOC	4.85	4.25
		CO	3.80	4.04
		H_2S	0.51	0.88
		CH_2O	0.37	1.64
		COS	0.07	0.30
		HAPs (5)	0.44	1.94

Emission Sources - Maximum Allowable Emission Rates

16	3-Tab Line Filler Oil Heater	PM	0.11	0.49
		PM_{10}	0.11	0.49
		VOC	0.08	0.35
		CO	1.24	5.41
		NO_x	1.47	6.44
		SO_2	0.01	0.04
		CH_2O	<0.01	<0.01
		HAPs (5)	0.03	0.12
18	3-Tab Line Process Oil Heater	PM	0.09	0.41
		PM_{10}	0.09	0.41
		VOC	0.07	0.30
		CO	1.03	4.51
18	3-Tab Line Process Oil Heater	NO_x	1.23	5.37
		SO_2	0.01	0.03
		CH_2O	<0.01	<0.01
		HAPs (5)	0.02	0.10
23-A, 23-B, 23-C, 23-D	3-Tab Line Cooling Stacks	PM	4.60	20.15
		PM_{10}	4.60	20.15
		VOC	0.64	2.79
		H_2S	0.51	0.88
312	3-Tab Line Asphalt Preheater	PM	0.04	0.16
		PM_{10}	0.04	0.16
		VOC	0.03	0.12

Emission Sources - Maximum Allowable Emission Rates

		CO	0.41	1.80
		NO_x	0.49	2.15
		SO_2	<0.01	0.01
		CH_2O	<0.01	<0.01
		HAPs (5)	0.01	0.04
318	Lam Line Filler Hot Oil Heater	PM	0.03	0.13
		PM_{10}	0.03	0.13
		VOC	0.02	0.09
318	Lam Line Filler Hot Oil Heater	CO	0.33	1.44
		NO_x	0.39	1.72
		SO_2	<0.01	0.01
		CH_2O	<0.01	<0.01
		HAPs (5)	0.01	0.03
319	Lam Line Process Oil Heater	PM	0.01	0.07
		PM_{10}	0.01	0.07
		VOC	0.01	0.05
		CO	0.16	0.72
		NO_x	0.20	0.86
		SO_2	<0.01	0.01
		CH_2O	<0.01	<0.01
		HAPs (5)	<0.01	0.02
320	3-Tab Line Regenerative Thermal Oxidizer Stack (Sealant Bulk Tanks 101 and 201, Adhesive Bulk Tank 301, Coater, and Coater Surge Tank)	PM	0.03	0.12
		PM_{10}	0.03	0.12
		VOC	0.37	0.60
		CO	0.37	0.88

Emission Sources - Maximum Allowable Emission Rates

		H_2S	0.04	0.07
		NO_x	0.16	0.69
		SO_2	3.55	6.15
		COS	<0.01	0.01
		CH_2O	<0.01	0.01
		HAPs (5)	<0.01	0.03
321 and 322	General Ventilation and Fugitives (Roof Vent, 3-Tab and Lam Line Material Surfacing Areas, 3-Tab and Lam Line Coaters, Lam Line Cooling Section, 3-Tab and Lam Line Sealant Applicators, Lam Line Adhesive Applicator, 3-Tab and Lam Line Ink Jet Printers, 3-Tab Mat Unwind Dry Looper, and 3-Tab and Lam Line Sealant Run Tanks)	PM	5.32	23.28
		PM_{10}	5.32	23.28
		VOC	3.29	14.40
		CO	0.32	1.40
		H_2S	1.27	2.20
		CH_2O	0.05	0.20
		COS	0.04	0.18
		HAPs (5)	0.09	0.38
323	Lam Line Filler Upper Surge Hopper Dust Collector Stack	PM	0.04	0.19
		PM_{10}	0.04	0.19
324	Lam Line Process Dust Collector Stack	PM	0.04	0.20
		PM_{10}	0.04	0.20
		VOC	4.85	4.25
		CO	3.80	4.04
		H_2S	0.51	0.88
		CH_2O	0.50	2.17
		COS	0.09	0.40
		HAPs (5)	0.59	2.57

Emission Sources - Maximum Allowable Emission Rates

325	Lam Line Regenerative Thermal Oxidizer Stack (MSA Melt Tank, Adhesive Run Tank, Coater, Coater Surge Tank, Sealant Applicator, Adhesive Applicator)	PM	0.04	0.16
		PM_{10}	0.04	0.16
		VOC	0.31	0.68
		CO	0.31	0.84
		NO_x	0.16	0.69
		SO_2	4.39	7.60
		H_2S	0.05	0.08
		CH_2O	<0.01	0.02
		COS	<0.01	0.01
		HAPs (5)	<0.01	0.03
326	Lam Line Filler Storage Silo Dust Collector Stack	PM	0.04	0.19
		PM_{10}	0.04	0.19
327	Lam Line Filler Heater and Lower Surge Hopper Dust Collector Stack	PM	0.01	0.04
		PM_{10}	0.01	0.04
328	Lam Line Asphalt Preheater	PM	0.02	0.08
		PM_{10}	0.02	0.08
		VOC	0.01	0.06
		CO	0.21	0.90
		NO_x	0.25	1.07
		SO_2	<0.01	0.01
		CH_2O	<0.01	<0.01
		HAPs (5)	<0.01	0.02

Emission Sources - Maximum Allowable Emission Rates

330	3-Tab Line Surfacing Materials Silos and Unloading	PM	<0.01	0.01
		PM_{10}	<0.01	<0.01
331	Lam Line Surfacing Materials Silos and Unloading	PM	<0.01	0.01
		PM_{10}	<0.01	<0.01
400	Sealant Filler Hopper Dust Collector	PM	0.01	0.04
		PM_{10}	0.01	0.04
401	Adhesive Filler Hopper Dust Collector	PM	0.01	0.04
		PM_{10}	0.01	0.04
MAT	Lam Line Mat Unwind Dry Looper Dust Collector Stack	PM	0.04	0.19
		PM_{10}	0.04	0.19
UNLOAD	Railcar/Truck Granule Unloading Fugitives (Both Lines) (4)	PM	0.02	0.06
		PM_{10}	<0.01	0.03
FUG 2	Asphalt Railcar Unloading Fugitives (4)	VOC	0.14	0.28
271	Asphalt Truck Unloading Fugitives (4)	VOC	0.12	0.24

(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.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
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
CO - carbon monoxide
H_2S - hydrogen sulfide
CH_2O - formaldehyde (HAP)
COS - carbonyl sulfide (HAP)

Emission Sources - Maximum Allowable Emission Rates

HAPS - any of the Section 112(b), Federal Clean Air Act named compounds

(4) Fugitive emissions are an estimate only.

(5) HAPs are included in the PM and VOC maximum allowable emission quantities.

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

Dated: April 16, 2013