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)
189	Process Steam Generator Boiler Stack	PM	0.09	0.41
		PM_{10}	0.09	0.41
		$PM_{2.5}$	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 (8)	<0.01	<0.01
		HAPs (5)	0.02	0.10
221	Tank 1 Heater Stack	PM	0.01	0.05
		PM_{10}	0.01	0.05
		$PM_{2.5}$	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 (8)	<0.01	<0.01
		HAPs (5)	<0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

224	Tank 2 Heater Stack	PM	0.01	0.05
		PM_{10}	0.01	0.05
		$PM_{2.5}$	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 (8)	<0.01	<0.01
		HAPs (5)	<0.01	0.01
227	Tank 3 Heater Stack	PM	0.01	0.05
		PM_{10}	0.01	0.05
		$PM_{2.5}$	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 (8)	<0.01	<0.01
		HAPs (5)	<0.01	0.01
230	Tank 4 Heater Stack	PM	0.01	0.05
		PM_{10}	0.01	0.05
		$PM_{2.5}$	0.01	0.05
		VOC	0.01	0.04
		CO	0.12	0.54
		NO_x	0.15	0.64
230	Tank 4 Heater Stack	SO_2	<0.01	<0.01
		CH_2O (8)	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

		HAPs (5)	<0.01	0.01
233	Tank 6 Heater Stack	PM	0.01	0.03
		PM_{10}	0.01	0.03
		$PM_{2.5}$	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 (8)	<0.01	<0.01
		HAPs (5)	<0.01	0.01
236	Tank 13 Heater Stack	PM	0.01	0.03
		PM_{10}	0.01	0.03
		$PM_{2.5}$	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 (8)	<0.01	<0.01
		HAPs (5)	<0.01	0.01
239	Tank 14 Heater 1 Stack	PM	0.02	0.08
		PM_{10}	0.02	0.08
		$PM_{2.5}$	0.02	0.08
239	Tank 14 Heater 1 Stack	VOC	0.01	0.06
		CO	0.21	0.90
		NO_x	0.25	1.07
		SO_2	<0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

		CH_2O (8)	<0.01	<0.01
		HAPs (5)	<0.01	0.02
240	Tank 14 Heater 2 Stack	PM	0.02	0.08
		PM_{10}	0.02	0.08
		$PM_{2.5}$	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 (8)	<0.01	<0.01
		HAPs (5)	<0.01	0.02
243	Tank 15 Heater 1 Stack	PM	0.02	0.08
		PM_{10}	0.02	0.08
		$PM_{2.5}$	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 (8)	<0.01	<0.01
		HAPs (5)	<0.01	0.02
244	Tank 15 Heater 2 Stack	PM	0.02	0.08
		PM_{10}	0.02	0.08
		$PM_{2.5}$	0.02	0.08
		VOC	0.01	0.06
		CO	0.21	0.90
		NO_x	0.25	1.07

Emission Sources - Maximum Allowable Emission Rates

		SO_2	<0.01	0.01
		CH_2O (8)	<0.01	<0.01
		HAPs (5)	<0.01	0.02
247	Tank 16 Heater Stack	PM	0.01	0.03
		PM_{10}	0.01	0.03
		$PM_{2.5}$	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 (8)	<0.01	<0.01
		HAPs (5)	<0.01	0.01
250	Tank 17 Heater 1 Stack	PM	0.02	0.08
		PM_{10}	0.02	0.08
		$PM_{2.5}$	0.02	0.08
		VOC	0.01	0.06
250	Tank 17 Heater 1 Stack	CO	0.21	0.90
		NO_x	0.25	1.07
		SO_2	<0.01	0.01
		CH_2O (8)	<0.01	<0.01
		HAPs (5)	<0.01	0.02
251	Tank 17 Heater 2 Stack	PM	0.02	0.08
		PM_{10}	0.02	0.08
		$PM_{2.5}$	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 (8)	<0.01	<0.01
		HAPs (5)	<0.01	0.02
254	Tank 18 Heater Stack	PM	0.01	0.03
		PM_{10}	0.01	0.03
		$PM_{2.5}$	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 (8)	<0.01	<0.01
		HAPs (5)	<0.01	0.01
258	Tank 20 (Diesel Storage)	VOC	<0.01	<0.01
280, 282, 283, 284, 285, 286	Asphalt Pouring Sheds	PM	0.60	0.18
		PM_{10}	0.60	0.18
		$PM_{2.5}$	0.60	0.18
		VOC	2.14	0.65
		CO	0.10	0.03
		H_2S	0.05	0.01
		COS (8)	0.07	0.02
		CH_2O (8)	0.08	0.02
		HAPs (5)	1.97	0.60
287, 313, 414, 415	Asphalt Solvent Cold	VOC	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

	Cleaners and Roofing Solvent Fugitives (4)			
4	3-Tab Line Filler Storage Silo Dust Collector Stack	PM	0.09	0.39
		PM_{10}	0.09	0.39
		$PM_{2.5}$	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
		$PM_{2.5}$	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
		$PM_{2.5}$	0.01	0.04
10	Lam Line Sand Storage Silo Dust Collector Stack	PM	0.05	0.23
		PM_{10}	0.05	0.23
		$PM_{2.5}$	0.05	0.23
11	3-Tab Line Process Dust Collector Stack	PM	0.01	0.04
		PM_{10}	0.01	0.04
		$PM_{2.5}$	0.01	0.04
		VOC	4.85	4.25
		CO	3.80	4.04
		H_2S	0.51	0.88
		CH_2O (8)	0.37	1.64
		COS (8)	0.07	0.30
		HAPs (5)	0.44	1.94
		PM_{10}	0.11	0.49
		$PM_{2.5}$	0.11	0.49

Emission Sources - Maximum Allowable Emission Rates

		VOC	0.08	0.35
		CO	1.24	5.41
		NO_x	1.47	6.44
		SO_2	0.01	0.04
		CH_2O (8)	<0.01	<0.01
		HAPs (5)	0.03	0.12
18	3-Tab Line Process Oil Heater Stack	PM	0.09	0.41
		PM_{10}	0.09	0.41
		$PM_{2.5}$	0.09	0.41
		VOC	0.07	0.30
		CO	1.03	4.51
		NO_x	1.23	5.37
18	3-Tab Line Process Oil Heater Stack	SO_2	0.01	0.03
		CH_2O (8)	<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
		$PM_{2.5}$	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
		$PM_{2.5}$	0.04	0.16
		VOC	0.03	0.12
		CO	0.41	1.80
		NO_x	0.49	2.15

Emission Sources - Maximum Allowable Emission Rates

		SO_2	<0.01	0.01
		CH_2O(8)	<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
		$PM_{2.5}$	0.03	0.13
		VOC	0.02	0.09
		CO	0.33	1.44
		NO_x	0.39	1.72
318	Lam Line Filler Hot Oil Heater	SO_2	<0.01	0.01
		CH_2O (8)	<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
		$PM_{2.5}$	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 (8)	<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
		$PM_{2.5}$	0.03	0.12
		VOC	0.37	0.60

Emission Sources - Maximum Allowable Emission Rates

		CO	0.37	0.88
		H_2S	0.04	0.07
		NO_x	0.16	0.69
		SO_2	3.55	6.15
		COS (8)	<0.01	0.01
		CH_2O (8)	<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
		$PM_{2.5}$	5.32	23.28
		VOC	3.29	14.40
		CO	0.32	1.40
		H_2S	1.27	2.20
		CH_2O (8)	0.05	0.20
		COS (8)	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
		$PM_{2.5}$	0.04	0.19
324	Lam Line Process Dust Collector Stack	PM	0.04	0.20
		PM_{10}	0.04	0.20
		$PM_{2.5}$	0.04	0.20
		VOC	4.85	4.25
		CO	3.80	4.04
		H_2S	0.51	0.88
		CH_2O (8)	0.50	2.17

Emission Sources - Maximum Allowable Emission Rates

		COS (8)	0.09	0.40
		HAPs (5)	0.59	2.57
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
		$PM_{2.5}$	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 (8)	<0.01	0.02
		COS (8)	<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
		$PM_{2.5}$	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
		$PM_{2.5}$	0.01	0.04
328	Lam Line Asphalt Preheater	PM	0.02	0.08
		PM_{10}	0.02	0.08
		$PM_{2.5}$	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
328	Lam Line Asphalt Preheater	SO_2	<0.01	0.01
		CH_2O (8)	<0.01	<0.01
		HAPs (5)	<0.01	0.02
330	3-Tab Line Surfacing Materials Silos and Unloading	PM	<0.01	0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
331	Lam Line Surfacing Materials Silos and Unloading	PM	<0.01	0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
400	Sealant Filler Hopper Dust Collector	PM	0.01	0.04
		PM_{10}	0.01	0.04
		$PM_{2.5}$	0.01	0.04
401	Adhesive Filler Hopper Dust Collector	PM	0.01	0.04
		PM_{10}	0.01	0.04
		$PM_{2.5}$	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
		$PM_{2.5}$	0.04	0.19
UNLOAD	Railcar/Truck Granule Unloading Fugitives (Both Lines) (4)	PM	0.02	0.06
		PM_{10}	<0.01	0.03
		$PM_{2.5}$	<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

Emission Sources - Maximum Allowable Emission Rates

3	Fume Incinerator/ Preheater/Waste Heat Boiler Stack (3 Asphalt Blowing Stills/Converters, 15 Asphalt Plant Active Storage Tanks, Asphalt Truck Loading Racks)	PM	3.03	13.45
		PM_{10}	3.03	13.45
		$PM_{2.5}$	3.03	13.45
		VOC	2.75	13.89
		CO	28.52	119.49
		NO_x	5.58	24.03
		SO_2	38.51	157.34
		H_2S	0.30	1.29
		CH_2O (8)	0.01	0.03
		COS (8)	0.01	0.02
		HAPs (5)	0.64	2.65
217, 218, 219	Asphalt Loading Rack Fugitives and BD Oil Loading System Fugitives (4)	PM	0.21	13.45
		PM_{10}	0.21	13.45
		$PM_{2.5}$	0.21	13.45
		VOC	35.56	13.89
		CO	0.05	119.49
		COS(8)	<0.01	0.02
		H_2S	0.01	1.29
		CH_2O (8)	<0.01	0.03
		HAPs (5)	<0.01	2.65
273	Asphalt Loading Rack (External Truck Shipping) Fiber Bed Filter Stack (7)	PM	1.07	13.45
		PM_{10}	1.07	13.45
		$PM_{2.5}$	1.07	13.45
		VOC	38.00	13.89
		CO	16.66	119.49

Emission Sources - Maximum Allowable Emission Rates

		COS (8)	0.09	0.02
		H_2S	2.63	1.29
		CH_2O (8)	0.11	0.03
		HAPs (5)	0.2	2.65
3, 217, 218, 219, and 273	Total Combined Annual Emission Allowance for Fume Incinerator/ Preheater/Waste Heat Boiler Stack (3 Asphalt Blowing Stills/Converters, 15 Asphalt Plant Active Storage Tanks, Asphalt Truck Loading Racks), Asphalt Loading Rack Fugitives and BD Oil Loading System Fugitives, and Asphalt Loading Rack (External Truck Shipping) Fiber Bed Filter Stack	PM	-	13.45
		PM_{10}	-	13.45
		$PM_{2.5}$	-	13.45
		VOC	-	13.89
		CO	-	119.49
		NO_x	-	24.03
		SO_2	-	157.34
		H_2S	-	1.29
		CH_2O (8)	-	0.03
		COS (8)	-	0.02
		HAPs (5)	-	2.65

(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)
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.

Emission Sources - Maximum Allowable Emission Rates

(7) Alternate operating scenario when loading trucks for external shipment.
(8) Formaldehyde and Carbonyl Sulfide emission rates are included in the total HAPs limits.

Dated: November 3, 2015