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 (7)	
			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 (9)	<0.01	<0.01
		HAPs (6)	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 (9)	<0.01	<0.01
		HAPs (6)	<0.01	0.01
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

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		NO_x	0.15	0.64
		SO_2	<0.01	<0.01
		CH_2O (9)	<0.01	<0.01
		HAPs (6)	<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 (9)	<0.01	<0.01
		HAPs (6)	<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
		SO_2	<0.01	<0.01
		CH_2O (9)	<0.01	<0.01
		HAPs (6)	<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 (9)	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

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 (9)	<0.01	<0.01
		HAPs (6)	<0.01	0.01
239	Tank 14 Heater 1 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 (9)	<0.01	<0.01
		HAPs (6)	<0.01	0.01
240	Tank 14 Heater 2 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 (9)	<0.01	<0.01
		HAPs (6)	<0.01	0.01
243	Tank 15 Heater 1 Stack	PM	0.01	0.05
		PM_{10}	0.01	0.05
		$PM_{2.5}$	0.01	0.05

Emission Sources - Maximum Allowable Emission Rates

		CO	0.12	0.54
		NO_x	0.15	0.64
		SO_2	<0.01	<0.01
		CH_2O (9)	<0.01	<0.01
		HAPs (6)	<0.01	0.01
244	Tank 15 Heater 2 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 (9)	<0.01	<0.01
		HAPs (6)	<0.01	0.01
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 (9)	<0.01	<0.01
		HAPs (6)	<0.01	0.01
250	Tank 17 Heater 1 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
		NOx	0.15	0.64
		SO2	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

		HAPs (6)	<0.01	0.01
251	Tank 17 Heater 2 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 (9)	<0.01	<0.01
		HAPs (6)	<0.01	0.01
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 (9)	<0.01	<0.01
		HAPs (6)	<0.01	0.01
258	Tank 20 (Diesel Storage)	VOC	0.01	0.01
287, 313, 414, 415	Asphalt Solvent Cold Cleaners and Roofing Solvent Fugitives (5)	VOC	0.01	0.01
4	3-Tab Line Filler Storage Silo Dust Collector Stack	PM	0.42	1.82
		PM_{10}	0.42	1.82
		$PM_{2.5}$	0.42	1.82
6	3-Tab Line Filler Heater and Lower Surge Hopper Dust Collector Stack	PM	0.14	0.61
		PM_{10}	0.14	0.61
		$PM_{2.5}$	0.14	0.61
10	Lam Line Sand Storage Silo Dust Collector Stack	PM	0.03	0.15
		PM_{10}	0.03	0.15

Emission Sources - Maximum Allowable Emission Rates

11	3-Tab Line Process Dust Collector Stack	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		VOC	0.01	0.01
		CO	0.01	0.01
		H_2S	0.01	0.01
		CH_2O (9)	0.01	0.01
		COS (9)	0.01	0.01
		HAPs (6)	0.01	0.01
16	3-Tab Line Filler Oil Heater Stack	PM	0.03	0.15
		PM_{10}	0.03	0.15
		$PM_{2.5}$	0.03	0.15
		VOC	0.02	0.11
		CO	0.37	1.62
		NO_x	0.44	1.93
		SO_2	<0.01	0.01
		CH_2O (9)	<0.01	<0.01
		HAPs (6)	0.01	0.04
18	3-Tab Line Process Oil Heater Stack	PM	0.03	0.15
		PM_{10}	0.03	0.15
		$PM_{2.5}$	0.03	0.15
		VOC	0.02	0.11
		CO	0.37	1.62
		NO_x	0.44	1.93
		SO_2	<0.01	0.01
		CH_2O (9)	<0.01	<0.01
		HAPs (6)	0.01	0.04
23	East Cooling Section	PM	1.10	2.84
		PM_{10}	1.10	2.84
		$PM_{2.5}$	1.10	2.84

Emission Sources - Maximum Allowable Emission Rates

		VOC	0.75	1.94
24	West Cooling Section	PM	2.48	6.41
		PM_{10}	2.48	6.41
		$PM_{2.5}$	2.48	6.41
		H_2S	0.23	0.44
		VOC	0.75	1.94
312	3-Tab 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
		CO	0.21	0.90
		NO_x	0.25	1.07
		SO_2	<0.01	0.01
		CH_2O (9)	<0.01	<0.01
		HAPs (6)	<0.01	0.04
318	Lam Line Filler Hot Oil Heater	PM	0.05	0.20
		PM_{10}	0.05	0.20
		$PM_{2.5}$	0.05	0.20
		VOC	0.03	0.15
		CO	0.51	2.25
		NO_x	0.61	2.68
		SO_2	0.01	0.02
		CH_2O (9)	0.01	0.01
		HAPs (6)	0.01	0.05
319	Lam Line Process Oil Heater	PM	0.03	0.15
		PM_{10}	0.03	0.15
		$PM_{2.5}$	0.03	0.15
		VOC	0.02	0.11
		CO	0.37	1.63
		NO	0.44	1.95

Emission Sources - Maximum Allowable Emission Rates

		CH_2O (9)	<0.01	<0.01
		HAPs (6)	0.01	0.04
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	0.08
		PM_{10}	0.03	0.08
		$PM_{2.5}$	0.03	0.08
		VOC	0.24	0.32
		CO	0.29	0.77
		H_2S	0.03	0.05
		NO_x	0.16	0.69
		SO_2	2.55	4.53
		COS (9)	0.01	0.01
		CH_2O (9)	0.01	0.01
		HAPs (6)	0.01	0.02
321/322	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	4.04	13.56
		PM_{10}	4.04	13.56
		$PM_{2.5}$	4.04	13.56
		VOC	1.16	4.89
		CO	0.02	0.06
		H_2S	1.16	2.20
		CH_2O (9)	0.01	0.01
		COS (9)	0.01	0.01
		HAPs (6)	0.01	0.01
323	Lam Line Filler Upper Surge Hopper Dust Collector Stack	PM	0.21	0.94
		PM_{10}	0.21	0.94
		$PM_{2.5}$	0.21	0.94
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	0.01	0.01
		CO	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

		CH_2O (9)	0.01	0.01
		COS (9)	0.01	0.01
		HAPs (6)	0.01	0.01
325	Lam Line Regenerative Thermal Oxidizer Stack (MSA Melt Tank, Adhesive Run Tank, Coater, Coater Surge Tank, Sealant Applicator, Adhesive Applicator)	PM	0.09	0.29
		PM_{10}	0.09	0.29
		$PM_{2.5}$	0.09	0.29
		VOC	0.30	0.49
		CO	0.31	0.81
		NO_x	0.16	0.69
		SO_2	4.17	7.60
		H_2S	0.05	0.08
		CH_2O (9)	0.01	0.01
		COS (9)	0.01	0.01
		HAPs (6)	0.01	0.04
326	Lam Line Filler Storage Silo Dust Collector Stack	PM	0.42	1.82
		PM_{10}	0.42	1.82
		$PM_{2.5}$	0.42	1.82
327	Lam Line Filler Heater and Lower Surge Hopper Dust Collector Stack	PM	0.55	2.42
		PM_{10}	0.55	2.42
		$PM_{2.5}$	0.55	2.42
328	Lam Line Asphalt Preheater	PM	0.03	0.12
		PM_{10}	0.03	0.12
		$PM_{2.5}$	0.03	0.12
		VOC	0.02	0.09
		CO	0.31	1.35
		NO_x	0.37	1.61
		SO_2	<0.01	0.01
		CH_2O (9)	<0.01	<0.01
		HAPs (6)	<0.01	0.03
330	3-Tab Line Surfacing Materials Silos and	PM	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	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	0.03	0.12
		PM_{10}	0.03	0.12
		$PM_{2.5}$	0.03	0.12
401	Adhesive Filler Hopper Dust Collector	PM	0.03	0.12
		PM_{10}	0.03	0.12
		$PM_{2.5}$	0.03	0.12
MAT	Lam Line Mat Unwind Dry Looper Dust Collector Stack	PM	0.34	1.50
		PM_{10}	0.34	1.50
		$PM_{2.5}$	0.34	1.50
UNLOAD	Railcar/Truck Granule Unloading Fugitives (Both Lines) (5)	PM	0.01	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	0.01	0.02
3	Fume Incinerator/Preheater/Waste Heat Boiler Stack	PM	3.27	-
		PM_{10}	3.27	-
		$PM_{2.5}$	3.27	-
		VOC	0.15	-
		CO	0.10	-
		NO_x	2.97	-
		SO_2	33.48	-
		H_2S	0.34	-
		CH_2O (9)	0.01	-
		COS	<0.01	-
		HAPs (6)	0.64	-
217, 218, 219	Asphalt Loading Racks & BD Oil Loading	PM	0.21	-
		PM_{10}	0.21	-
		$PM_{2.5}$	0.21	-

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		CO	0.05	-
		H_2S	<0.01	-
		COS	<0.01	-
		HAPs (6)	<0.01	-
273	Asphalt Loading Rack (External Truck Shipping) Fiber Bed Filter Stack (8)	PM	1.07	-
		PM_{10}	1.07	-
		$PM_{2.5}$	1.07	-
		VOC	38.00	-
		CO	16.66	-
		COS (9)	0.09	-
		H_2S	2.63	-
		CH_2O (9)	0.11	-
		HAPs (6)	0.20	-
3, 217, 218, 219, and 273	Total Combined Annual Emission Allowance for Fume Incinerator/ Preheater/Waste Heat Boiler Stack, Asphalt Loading Racks, BD Oil Loading, and Fiber Bed Filter	PM	-	11.59
		PM_{10}	-	11.59
		$PM_{2.5}$	-	11.59
		VOC	-	1.75
		CO	-	0.65
		NO_x	-	10.36
		SO_2	-	116.96
		H_2S	-	1.14
		CH_2O (9)	-	0.03
		COS (9)	-	0.02
		HAPs (6)	-	2.27

(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

Emission Sources - Maximum Allowable Emission Rates

$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
HAP - hazardous air pollutant 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
CH_2O - formaldehyde (HAP)
COS - carbonyl sulfide (HAP)

(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) HAPs are included in the PM and VOC maximum allowable emission quantities.
(7) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.
(8) Alternate operating scenario when loading trucks for external shipment.
(9) Formaldehyde and Carbonyl Sulfide emission rates are included in the total HAPs limits.

Dated: September 16, 2019