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 Rate	s (6)
140. (1)		wanie (5)	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
		со	1.04	4.54
		NO _x	1.24	5.41
		SO ₂	0.01	0.03
		CH ₂ O (8)	<0.01	<0.01
		HAPs (5)	0.02	0.10
221	Tank 1 Heater Stack	РМ	0.01	0.05
		PM ₁₀	0.01	0.05
		PM _{2.5}	0.01	0.05
		VOC	0.01	0.04
		со	0.12	0.54
		NO _x	0.15	0.64
		SO ₂	<0.01	<0.01
		CH₂O (8)	<0.01	<0.01
		HAPs (5)	<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
		СО	0.12	0.54
		NO _x	0.15	0.64
		SO ₂	<0.01	<0.01
		CH ₂ O (8)	<0.01	<0.01
		HAPs (5)	<0.01	0.01
227	Tank 3 Heater Stack	РМ	0.01	0.05
		PM ₁₀	0.01	0.05
		PM _{2.5}	0.01	0.05
		VOC	0.01	0.04
		СО	0.12	0.54
		NO _x	0.15	0.64
		SO ₂	<0.01	<0.01
		CH ₂ O (8)	<0.01	<0.01
		HAPs (5)	<0.01	0.01
230	Tank 4 Heater Stack	РМ	0.01	0.05
		PM ₁₀	0.01	0.05
		PM _{2.5}	0.01	0.05
		voc	0.01	0.04
		СО	0.12	0.54
		NO _x	0.15	0.64
		SO ₂	<0.01	<0.01
		CH ₂ O (8)	<0.01	<0.01
		HAPs (5)	<0.01	0.01

	ı	1	1
Tank 6 Heater Stack	РМ	0.01	0.03
	PM ₁₀	0.01	0.03
	PM _{2.5}	0.01	0.03
	voc	<0.01	0.02
	со	0.07	0.29
	NO _x	0.08	0.34
	SO ₂	<0.01	<0.01
	CH ₂ O (8)	<0.01	<0.01
	HAPs (5)	<0.01	0.01
Tank 13 Heater Stack	РМ	0.01	0.03
	PM ₁₀	0.01	0.03
	PM _{2.5}	0.01	0.03
	voc	<0.01	0.02
	со	0.07	0.29
	NO _x	0.08	0.34
	SO ₂	<0.01	<0.01
	CH ₂ O (8)	<0.01	<0.01
	HAPs (5)	<0.01	0.01
Tank 14 Heater 1 Stack	РМ	0.01	0.05
	PM ₁₀	0.01	0.05
	PM _{2.5}	0.01	0.05
	voc	0.01	0.04
	со	0.12	0.54
	NO _x	0.15	0.64
	SO ₂	<0.01	<0.01
	CH ₂ O (8)	<0.01	<0.01
	Tank 13 Heater Stack	PM10	PM ₁₀ 0.01 PM ₂₅ 0.01 VOC <0.01 CO 0.07 NO _x 0.08 SO ₂ <0.01 CH ₂ O (8) <0.01 HAPs (5) <0.01 PM ₁₀ 0.01 PM ₂₅ 0.01 Tank 13 Heater Stack PM 0.01 PM ₁₀ 0.01 PM ₂₅ 0.01 CO 0.07 NO _x 0.08 SO ₂ <0.01 CO 0.07 NO _x 0.08 SO ₂ <0.01 CO 0.07 NO _x 0.08 SO ₂ <0.01 CH ₂ O (8) <0.01 HAPs (5) <0.01 Tank 14 Heater 1 Stack PM 0.01 PM ₁₀ 0.01 PM ₂₅ 0.01 VOC 0.01 CO 0.01 PM ₂₅ 0.01 PM ₂₅ 0.01 VOC 0.01 PM ₂₅ 0.01 VOC 0.01 CO 0.12 NO _x 0.15 SO ₂ <0.01

		HAPs (5)	<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
		СО	0.12	0.54
		NO _x	0.15	0.64
		SO ₂	<0.01	<0.01
		CH ₂ O (8)	<0.01	<0.01
		HAPs (5)	<0.01	0.01
243	Tank 15 Heater 1 Stack	РМ	0.01	0.05
		PM ₁₀	0.01	0.05
		PM _{2.5}	0.01	0.05
		VOC	0.01	0.04
		СО	0.12	0.54
		NO _x	0.15	0.64
		SO ₂	<0.01	<0.01
		CH ₂ O (8)	<0.01	<0.01
		HAPs (5)	<0.01	0.01
244	Tank 15 Heater 2 Stack	РМ	0.01	0.05
		PM ₁₀	0.01	0.05
		PM _{2.5}	0.01	0.05
		voc	0.01	0.04
		со	0.12	0.54
		NO _x	0.15	0.64
		SO ₂	<0.01	<0.01

		CH ₂ O (8)	<0.01	<0.01
		HAPs (5)	<0.01	0.01
247	Tank 16 Heater Stack	РМ	<0.01	0.03
		PM ₁₀	<0.01	0.03
		PM _{2.5}	<0.01	0.03
		VOC	<0.01	0.02
		СО	0.07	0.29
		NO _x	0.08	0.34
		SO ₂	<0.01	<0.01
		CH ₂ O (8)	<0.01	<0.01
		HAPs (5)	<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
		СО	0.12	0.54
		NOx	0.15	0.64
		SO2	<0.01	<0.01
		CH2O	<0.01	<0.01
		HAPs	<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
		СО		0.54

		No		
		NO _x	0.15	0.64
		SO ₂	<0.01	<0.01
		CH ₂ O (8)	<0.01	<0.01
		HAPs (5)	<0.01	0.01
254	Tank 18 Heater Stack	РМ	0.01	0.03
		PM ₁₀	0.01	0.03
		PM _{2.5}	0.01	0.03
		voc	<0.01	0.02
		со	0.07	0.29
		NO _x	0.08	0.34
		SO ₂	<0.01	<0.01
		CH ₂ O (8)	<0.01	<0.01
		HAPs (5)	<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 (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
		PM _{2.5}	0.09	0.39
6	3-Tab Line Filler Heater and Lower Surge Hopper Dust	PM	0.01	0.04
	Collector Stack	PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
10	Lam Line Sand Storage Silo Dust Collector Stack	PM	0.03	0.15
		PM ₁₀	0.03	0.15
		PM _{2.5}	0.03	0.15

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	4.85	4.25
		со	3.80	4.04
		H ₂ S	0.46	0.88
		CH ₂ O (8)	0.38	1.64
		COS (8)	0.07	0.30
		HAPs (5)	0.44	1.94
16	3-Tab Line Filler Oil Heater Stack	PM	0.03	0.15
	Stack	PM ₁₀	0.03	0.15
		PM _{2.5}	0.03	0.15
		voc	0.02	0.11
		со	0.37	1.62
		NO _x	0.44	1.93
		SO ₂	<0.01	0.01
		CH ₂ O (8)	<0.01	<0.01
		HAPs (5)	0.01	0.04
18	3-Tab Line Process Oil Heater Stack	РМ	0.03	0.15
		PM ₁₀	0.03	0.15
		PM _{2.5}	0.03	0.15
		voc	0.02	0.11
		со	0.37	1.62
		NO _x	0.44	1.93
		SO ₂	<0.01	0.01
		CH ₂ O (8)	<0.01	<0.01
Project Numbers: 265	331 and 269/77			

	1			
		HAPs (5)	0.01	0.04
23	East Cooling Section	PM	1.59	4.10
		PM ₁₀	1.59	4.10
		PM _{2.5}	1.59	4.10
		H ₂ S	0.23	0.44
		VOC	0.83	2.14
24	West Cooling Section	PM	3.59	9.24
		PM ₁₀	3.59	9.24
		PM _{2.5}	3.59	9.24
		H ₂ S	0.23	0.44
		voc	0.83	2.14
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
		со	0.21	0.90
		NO _x	0.25	1.07
		SO ₂	<0.01	0.01
		CH ₂ O(8)	<0.01	<0.01
		HAPs (5)	<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
		со	0.51	2.25

		NO _x	0.61	2.68
		SO ₂	<0.01	0.02
		CH ₂ O (8)	<0.01	<0.01
		HAPs (5)	0.01	0.05
319	Lam Line Process Oil Heater	РМ	0.03	0.15
		PM ₁₀	0.03	0.15
		PM _{2.5}	0.03	0.15
		voc	0.02	0.11
		со	0.37	1.63
		NO _x	0.44	1.95
		SO ₂	<0.01	0.01
		CH ₂ O (8)	<0.01	<0.01
		HAPs (5)	0.01	0.04
320	3-Tab Line Regenerative Thermal Oxidizer Stack	РМ	0.04	0.11
	(Sealant Bulk Tanks 101 and 201, Adhesive Bulk Tank 301,	PM ₁₀	0.04	0.11
	Coater, and Coater Surge Tank)	PM _{2.5}	0.04	0.11
		voc	0.27	0.50
		со	0.30	0.82
		H ₂ S	0.03	0.05
		NO _x	0.16	0.69
		SO ₂	2.55	4.53
		COS (8)	<0.01	0.01
		CH ₂ O (8)	<0.01	0.02
		HAPs (5)	0.01	0.04
321 and 322	General Ventilation and Fugitives (Roof Vent, 3-Tab and Lam Line Material Surfacing	PM	4.07	16.72
Project Numbers: 265	5331 and 269477			

	i			1
		PM ₁₀	4.07	16.72
		PM _{2.5}	4.07	16.72
		voc	2.05	7.47
		со	0.05	0.20
		H ₂ S	1.16	2.20
		CH ₂ O (8)	<0.01	<0.01
		COS (8)	<0.01	0.01
		HAPs (5)	<0.01	0.01
323	Lam Line Filler Upper Surge Hopper Dust Collector Stack	РМ	0.04	0.19
	Tioppor Buot Collector Ctack	PM ₁₀	0.04	0.19
		PM _{2.5}	0.04	0.19
324	Lam Line Process Dust Collector Stack	PM	0.05	0.20
		PM ₁₀	0.05	0.20
		PM _{2.5}	0.05	0.20
		voc	4.85	4.25
		со	3.80	4.04
		H ₂ S	0.46	0.88
		CH ₂ O (8)	0.50	2.17
		COS (8)	0.09	0.40
		HAPs (5)	0.59	2.57
325	Lam Line Regenerative Thermal Oxidizer Stack (MSA	PM	0.05	0.23
	Melt Tank, Adhesive Run Tank, Coater, Coater Surge Tank,	PM ₁₀	0.05	0.23
	Sealant Applicator, Adhesive Applicator)	PM _{2.5}	0.05	0.23
		voc	0.30	0.62
		со	0.31	0.85
		NOx	0.16	0.69

		SO ₂	4.17	7.60
		H ₂ S	0.05	0.08
		CH ₂ O (8)	<0.01	0.02
		COS (8)	<0.01	0.01
		HAPs (5)	0.01	0.04
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	PM	0.01	0.04
	Collector Stack	PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
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
		со	0.31	1.35
		NO _x	0.37	1.61
		SO ₂	<0.01	0.01
		CH ₂ O (8)	<0.01	<0.01
		HAPs (5)	<0.01	0.03
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	РМ	<0.01	0.01
	9	PM ₁₀	<0.01	<0.01

		D14	.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	РМ	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)	РМ	0.02	0.06
		PM ₁₀	0.01	0.03
		PM _{2.5}	0.01	0.03
FUG 2	Asphalt Rail Unloading	РМ	0.14	0.59
		PM ₁₀	0.14	0.59
		PM _{2.5}	0.14	0.59
		VOC	0.49	2.09
		СО	0.50	2.18
		H ₂ S	0.04	0.17
		CH ₂ O (8)	<0.01	<0.01
		COS(8)	<0.01	<0.01
271	Asphalt Truck Unloading	РМ	0.14	0.38
		PM ₁₀	0.14	0.38
		PM _{2.5}	0.14	0.38
		VOC	0.49	1.35

		со	0.50	2.18
		H ₂ S	0.04	0.17
		CH ₂ O (8)	<0.01	<0.01
		COS(8)	<0.01	<0.01
		HAPs (5)	<0.01	<0.01
3	Fume Incinerator/Preheater/Waste Heat Boiler Stack	PM	3.27	11.57
		PM ₁₀	3.27	11.57
		PM _{2.5}	3.27	11.57
		voc	0.15	1.07
		СО	0.10	0.48
		NO _x	2.97	10.36
		SO ₂	33.48	117.00
		H ₂ S	0.13	1.14
		CH ₂ O (8)	0.01	0.03
		cos	<0.01	0.02
		HAPs (5)	0.64	2.27
217, 218, 219		РМ	0.21	11.59
		PM ₁₀	0.21	11.59
		PM _{2.5}	0.21	11.59
		voc	1.45	1.76
		со	0.05	0.65
		H ₂ S	<0.01	1.14
		cos	<0.01	0.02
		HAPs (5)	<0.01	2.27
273	Asphalt Loading Rack (External Truck Shipping) Fiber Bed Filter	РМ	1.07	11.59

Stack (7)

•	•		T	
		PM ₁₀	1.07	11.59
	PM _{2.5}	1.07	11.59	
	VOC	38.00	1.76	
	со	16.66	0.65	
	COS (8)	0.09	0.02	
		H ₂ S	2.63	1.14
		CH ₂ O (8)	0.11	0.03
	HAPs (5)	0.20	2.27	
and 273 Emission Allowance for Incinerator/ Preheater Heat Boiler Stack, As	Emission Allowance for Fume Incinerator/ Preheater/Waste Heat Boiler Stack, Asphalt Loading Racks, BD Oil Loading, and Fiber Bed Filter	РМ	-	11.59
		PM ₁₀	-	11.59
		PM _{2.5}	-	11.59
		VOC	-	1.76
		СО	-	0.65
		NO _x	-	10.36
		SO ₂	-	116.96
		H ₂ S	-	1.14
		CH ₂ O (8)	-	0.03
		COS (8)	-	0.02
		HAPs (5)	-	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

SO₂ - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented

PM₁₀ - 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

 $\begin{array}{lll} \text{CO} & -\text{ carbon monoxide} \\ \text{H}_2\text{S} & -\text{ hydrogen sulfide} \\ \text{CH}_2\text{O} & -\text{ formaldehyde (HAP)} \\ \text{COS} & -\text{ carbonyl sulfide (HAP)} \end{array}$

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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.
- (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:	March 30, 2018	
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