Permit Numbers 22377 and PSDTX832M5

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 (13)	
			lbs/hour	TPY (4)
RTOEAST/RTOWEST (6)	Dryers 1-5 Regenerative Thermal	PM	10.51	37.44
	Oxidizers Exhaust Stacks	PM ₁₀	10.51	37.44
		PM _{2.5}	10.51	37.44
		VOC (12)	14.41	51.32
		NO _x	55.32	197.02
		SO ₂	2.18	9.55
		СО	148.51	528.94
		нсно	2.45	8.74
DRYER MSS (7)	Dryers 1-5 Bypass Exhaust Stacks	РМ	28.00	2.80
		PM ₁₀	20.00	2.00
		PM _{2.5}	20.00	2.00
		VOC (12)	40.50	4.05
		NO _x	3.50	0.35
		СО	26.50	2.65
		нсно	2.27	0.23
RTOPRESS/RCOPRESS	Press Regenerative Thermal Oxidizer/Regenerative Catalytic Oxidizer Exhaust Stack	PM	4.24	15.31
		PM ₁₀	4.24	15.31
		PM _{2.5}	4.24	15.31
		VOC (12)	8.46	30.56
		NO _x	26.62	96.12
		SO ₂	0.01	0.04
		СО	53.28	192.40
		нсно	1.73	6.24
		MDI	0.10	0.44
		C ₆ H ₅ OH	1.44	5.19

PRESSVENT MSS	Press Bypass Exhaust Stack	PM	4.66	0.12
		PM ₁₀	2.33	0.06
		PM _{2.5}	2.33	0.06
		VOC (12)	29.77	0.74
		NO _x	0.37	0.01
		SO ₂	0.33	0.01
		СО	0.90	0.02
		НСНО	0.68	0.02
		MDI	0.12	<0.01
		C ₆ H₅OH	0.34	0.01
S-1	Saw Line Collector Baghouse	PM	1.34	5.89
	Stack (saw line pick-up point and resizer	PM ₁₀ (9)	1.34	5.89
	mill)	PM _{2.5}	1.34	5.89
		VOC (12)	3.35	12.45
S-1 MSS (10)	Saw Line Bypass Exhaust Stack	PM	4.03	0.20
		PM ₁₀ (9)	4.03	0.20
		PM _{2.5}	4.03	0.20
S-2	Aspiration System Baghouse Stack	PM	0.62	2.71
	(1 Core blender, 2 face blenders, 2 core forming bins, and 2 face	PM ₁₀ (9)	0.62	2.71
	forming bins)	PM _{2.5}	0.62	2.71
		VOC (12)	15.37	57.08
		НСНО	0.43	1.60
		MDI	<0.01	0.02
		C ₆ H ₅ OH	0.01	0.02
		МеОН	7.07	26.25
S-3/4	Raw Fuel Bin Collector Baghouse	PM	0.58	2.52
	Stack	PM ₁₀ (9)	0.58	2.52
		PM _{2.5}	0.58	2.52
		VOC (12)	7.88	29.25
		НСНО	0.05	0.20
		МеОН	0.12	0.46
S-3/4 MSS (10)	Raw Fuel Bypass Exhaust Stack	PM	3.46	0.35
		PM ₁₀ (9)	3.46	0.35
		PM _{2.5}	3.46	0.35

S-5	Material Reject Collector Baghouse	PM	1.43	6.28
	Stack	PM ₁₀ (9)	1.43	6.28
		PM _{2.5}	1.43	6.28
		VOC (12)	2.60	9.67
		НСНО	0.07	0.26
		MDI	<0.01	<0.01
		C ₆ H ₅ OH	<0.01	0.01
		MeOH	0.35	1.30
S-6	Tongue and Groove Sander Dust	РМ	1.12	4.93
	Collector Baghouse Stack (sander and edge profiler)	PM ₁₀ (9)	1.12	4.93
	and edge promery	PM _{2.5}	1.12	4.93
		VOC (12)	1.51	5.62
S-7	Tongue and Groove Sander	РМ	0.02	0.08
	Transfer Bin Baghouse Stack	PM ₁₀ (9)	0.02	0.08
		PM _{2.5}	0.02	0.08
		VOC (12)	1.51	5.62
S-8	Finished Fuel Bin Collector	PM	0.71	3.10
	Baghouse Stack (includes hammermill)	PM ₁₀ (9)	0.71	3.10
	Tianine miny	PM _{2.5}	0.71	3.10
		VOC (12)	5.87	21.81
		MeOH	0.11	0.42
S-9	Thermal Oil Heater Fuel System	РМ	0.39	1.69
	Collector Baghouse Stack	PM ₁₀ (9)	0.39	1.69
		PM _{2.5}	0.39	1.69
		VOC (12)	0.98	3.64
		MeOH	0.02	0.07
R-1	PF Tank 1	нсно	0.02	0.01
R-2	PF Tank 2	нсно	0.02	0.01
R-3	MDI Tank 1	MDI	<0.01	<0.01
R-4	MDI Tank 2	MDI	<0.01	<0.01
T-1	Gasoline Tank	VOC(11)	0.30	0.66
T-3	Diesel Tank	voc	0.10	<0.01
F-1	Fuel Pile (5)	PM	0.04	0.17
		PM ₁₀	0.04	0.17

		PM _{2.5}	0.04	0.17
		VOC	0.40	1.76
BARK	Bark Handling System	PM	0.40	0.87
	(bark storage bin, conveyor drop points, and truck loadout) (5)	PM ₁₀	0.19	0.41
	points, and track loadedly (c)	PM _{2.5}	0.03	0.06
FINES	Excess Fuel System (5)	PM	0.04	0.09
		PM ₁₀	0.02	0.04
		PM _{2.5}	0.01	0.01
TOH-1 (8)	Thermal Oil Heaters Bypass Stack	PM	0.22	0.98
		PM ₁₀	0.22	0.98
		PM _{2.5}	0.22	0.98
		VOC (12)	0.16	0.71
		NO _x	2.94	12.88
		SO ₂	0.02	0.08
		СО	2.47	10.82
GEN-1	Emergency Generator Exhaust	PM	5.90	0.44
	Stack	PM ₁₀	5.90	0.44
		PM _{2.5}	5.90	0.44
		VOC	0.20	0.01
		NO _x	15.53	1.17
		SO ₂	4.25	0.32
		СО	7.11	0.53

FWP-1	Fire Water Pump Exhaust Stack	PM	1.40	0.07
		PM ₁₀	1.40	0.07
		PM _{2.5}	1.40	0.07
		VOC	0.16	0.01
		NO _x	4.00	0.20
		SO ₂	1.04	0.05
		СО	3.45	0.17
PB-1	Paint Booth (5)	PM	0.68	1.49
		PM ₁₀	0.68	1.49

		PM _{2.5}	0.68	1.49
		VOC	1.54	3.37
PB-2 Tongue and Gro Booth (5)	Booth (5)	PM	0.65	1.42
		PM ₁₀	0.65	1.42
		PM _{2.5}	0.65	1.42
		VOC	1.46	3.19

- (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

 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 HCHO - formaldehyde

MDI - methylene-diphenyl-diisocyanate

C₆H₅OH - phenol MeOH - methanol

- (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) Maximum combined emissions for both RTOs.
- (7) Represent total emissions from all 5 dryers. The total emissions for the 5 dryers were used in the modeling.
- (8) The thermal oil heaters vent to the atmosphere through this bypass stack only when these thermal oil heaters use natural gas as fuel. The main thermal oil heater uses wood dust as fuel and vents through the dryers exhaust stack (EPN RTOEAST/RTOWEST) when using wood as fuel. The backup thermal oil heater only uses natural gas as fuel and exhausts through EPN TOH-1 when in use.
- (9) Also counted as wood dust.
- (10) These are not additional EPNs but represent emissions from EPNs S-1 and S-3/4 during emergency shutdown.
- (11) VOC includes benzene.
- (12) VOCs are quantified as propane.
- (13) Planned startup and shutdown emissions are included, as well as planned maintenance activities identified in the Special Conditions Numbers 13 and 18 of this permit.

Date:	November 25, 2014	
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