Emission Sources - Maximum Allowable Emission Rates

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 (6)	
			lbs/hour	TPY (4)
RTOEAST/RTOWEST **	Dryer Regenerative Thermal Oxidizers Exhaust Stack	PM	10.51	37.44
		PM_{10}	10.51	37.44
		$PM_{2.5}$	10.51	37.44
		$VOC_{(i)}$	14.41	51.32
		NO_x	55.32	197.02
		SO_2	2.18	9.55
		CO	148.51	528.94
		HCHO	2.45	8.74
DRYER MSS***	Dryers 1-5 Bypass Exhaust Stack	PM	28.00	2.80
		PM_{10}	20.00	2.00
		$PM_{2.5}$	20.00	2.00
		$VOC_{(i)}$	40.50	4.05
		NO_x	3.50	0.35
		CO	26.50	2.65
		HCHO	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
		$VOC_{(i)}$	8.46	30.56
		NO_x	26.62	96.12
		SO_2	0.01	0.04
		CO	53.28	192.40
		HCHO	1.73	6.24
		MDI	0.10	0.44
		C_6H_5OH	1.44	5.19

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PRESSVENT MSS	Press Bypass Exhaust Stack	PM	4.66	0.12
		PM_{10}	2.33	0.06
		$PM_{2.5}$	2.33	0.06
		$VOC_{(i)}$	29.77	0.74
		NO_x	0.37	0.01
		SO_2	0.33	0.01
		CO	0.90	0.02
		HCHO	0.68	0.02
		MDI	0.12	<0.01
		C_6H_5OH	0.34	0.01
S-1	Saw Line Collector Baghouse Stack	PM	1.34	5.89
		PM_{10}#	1.34	5.89
		$PM_{2.5}$	1.34	5.89
		$VOC_{(i)}$	3.35	12.45
S-1 MSS ##	Saw Line Bypass Exhaust Stack	PM	4.03	0.20
		PM_{10}#	4.03	0.20
		$PM_{2.5}$	4.03	0.20
S-2	Aspiration System Baghouse Stack	PM	0.62	2.71
		PM_{10}#	0.62	2.71
		$PM_{2.5}$	0.62	2.71
		$VOC_{(i)}$	15.37	57.08
		HCHO	0.43	1.60
		MDI	<0.01	0.02
		C_6H_5OH	0.01	0.02
		MeOH	7.07	26.25
S-3/4	Raw Fuel Bin Collector Baghouse Stack	PM	0.58	2.52
		PM_{10}#	0.58	2.52
		$PM_{2.5}$	0.58	2.52
		$VOC_{(i)}$	7.88	29.25
		HCHO	0.05	0.20
		MeOH	0.12	0.46
S-3/4 MSS##	Raw Fuel Bypass Exhaust Stack	PM	3.46	0.35
		PM_{10}#	3.46	0.35

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		$PM_{2.5}$	3.46	0.35
S-5	Material Reject Collector Baghouse Stack	PM	1.43	6.28
		PM_{10}#	1.43	6.28
		$PM_{2.5}$	1.43	6.28
		$VOC_{(i)}$	2.60	9.67
		HCHO	0.07	0.26
		MDI	<0.01	<0.01
		C_6H_5OH	<0.01	0.01
		MeOH	0.35	1.30
S-6	Tongue and Groove Sander Dust Collector Baghouse Stack	PM	1.12	4.93
		PM_{10}#	1.12	4.93
		$PM_{2.5}$	1.12	4.93
		$VOC_{(i)}$	1.51	5.62
S-7	Tongue and Groove Sander Transfer Bin Baghouse Stack	PM	0.02	0.08
		PM_{10}#	0.02	0.08
		$PM_{2.5}$	0.02	0.08
		$VOC_{(i)}$	1.51	5.62
S-8	Finished Fuel Bin Collector Baghouse Stack	PM	0.71	3.10
		PM_{10}#	0.71	3.10
		$PM_{2.5}$	0.71	3.10
		$VOC_{(i)}$	5.87	21.81
		MeOH	0.11	0.42
S-9	Thermal Oil Heater Fuel System Collector Baghouse Stack	PM	0.39	1.69
		PM_{10}#	0.39	1.69
		$PM_{2.5}$	0.39	1.69
		$VOC_{(i)}$	0.98	3.64
		MeOH	0.02	0.07
R-1	PF Tank 1	HCHO	0.02	0.01
R-2	PF Tank 2	HCHO	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###	0.30	0.66
T-3	Diesel Tank	VOC	0.10	<0.01
F-1	Fuel Pile (5)	PM	0.04	0.17

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		PM_{10}	0.04	0.17
		$PM_{2.5}$	0.04	0.17
		VOC	0.40	1.76
F-2	Roadways (5)	PM	2.64	5.79
		PM_{10}	0.53	1.16
		$PM_{2.5}$	0.13	0.28
F-3	Wet Deck (5)	PM	32.28	18.88
		PM_{10}	8.71	5.10
		$PM_{2.5}$	0.87	0.51
BARK	Bark Handling System (5)	PM	0.40	0.87
		PM_{10}	0.19	0.41
		$PM_{2.5}$	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****	Thermal Oil Heater Bypass Stack	PM	0.22	0.98
		PM_{10}	0.22	0.98
		$PM_{2.5}$	0.22	0.98
		$VOC_{(i)}$	0.16	0.71
		NO_x	2.94	12.88
		SO_2	0.02	0.08
		CO	2.47	10.82
GEN-1	Emergency Generator	PM	5.90	0.44
		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
		CO	7.11	0.53
FWP-1	Fire Water Pump	PM	1.40	0.07

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		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
		CO	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 Groove Paint 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
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
HCHO - formaldehyde
MDI - methylene-diphenyl-diisocyanate
C_6H_5OH - 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) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.
** Maximum combined emissions for both RTOs.
*** Represent total emissions from all 5 dryers. The total emissions for the 5 dryers were used in the modeling.
**** The thermal oil heaters vent to the atmosphere through this bypass stack only when these thermal oil heaters use natural gas as fuel.
# Also counted as wood dust.

Emission Sources - Maximum Allowable Emission Rates

These are not additional EPNs but represent emissions from EPNs S-1 and S-3/4 during emergency shutdown.
VOC includes benzene.
i VOCs are quantified as propane.

Date: DRAFT