Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 108113, PSDTX1344M2 and GHGPSDTX43

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)
1	Dock Ore Unloading and Product Loading Gantry Crane (5)	PM	0.28	1.22
		PM_{10}	0.13	0.58
		$PM_{2.5}$	0.02	0.09
4A	Oxide Unloading Transfer Fabric Filter Stack	PM	0.07	0.31
		PM_{10}	0.07	0.31
		$PM_{2.5}$	0.05	0.23
4B	Oxide Unloading and Product Loading Fabric Filter Stack	PM	0.07	0.31
		PM_{10}	0.07	0.31
		$PM_{2.5}$	0.05	0.23
5A	Oxide Pellet Transfer (Pre-Storage) Fabric Filter Stack	PM	0.07	0.31
		PM_{10}	0.07	0.31
		$PM_{2.5}$	0.05	0.23
5B	Oxide Pellet Transfer (Post-Storage) Fabric Filter Stack	PM	0.07	0.31
		PM_{10}	0.07	0.31
		$PM_{2.5}$	0.05	0.23
6	Oxide Pellet Transfer (Post-Storage) Fabric Filter Stack	PM	0.05	0.22
		PM_{10}	0.05	0.22
		$PM_{2.5}$	0.04	0.17

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7A	Oxide Day Bin Filling Fabric Filter Stack	PM	0.13	0.57
		PM_{10}	0.13	0.57
		$PM_{2.5}$	0.10	0.43
7B	Oxide Day Bin Discharge Fabric Filter Stack	PM	0.64	2.82
		PM_{10}	0.64	2.82
		$PM_{2.5}$	0.48	2.12
7C	Oxide Day Bin Off Spec Fabric Filter Stack	PM	0.12	0.53
		PM_{10}	0.12	0.53
		$PM_{2.5}$	0.09	0.40
7D	Oxide Tower Transfer Fabric Filter Stack	PM	0.05	0.22
		PM_{10}	0.05	0.22
		$PM_{2.5}$	0.04	0.17
16	Furnace Charge Hopper Loading Silos Fabric Filter Stack	PM	0.01	<0.01
		PM_{10}	0.01	<0.01
		$PM_{2.5}$	0.01	<0.01
17	Charge Hopper Wet Scrubber Stack	PM	0.13	0.59
		PM_{10}	0.13	0.59
		$PM_{2.5}$	0.10	0.44
		NO_x	2.02	8.84
		SO_2	0.25	1.10
		CO	1.83	8.03
		VOC	0.18	0.81
		NH_3	0.02	0.10

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29	Reformer Main Flue Ejector Stack	PM	14.82	64.92
		PM_{10}	12.72	55.72
		$PM_{2.5}$	12.72	55.72
		NO_x	83.96	367.74
		SO_2	10.48	32.10
		CO	76.33	334.31
		VOC	7.69	33.67
		n-Hexane	0.41	1.80
8	Furnace Dedusting (BSG Dust Collection) Wet Scrubber Stack	PM	2.50	10.95
		PM_{10}	2.50	10.95
		$PM_{2.5}$	0.50	2.19
		NO_x	2.02	8.84
		SO_2	0.25	1.10
		CO	1500.00	6570.00
		VOC	0.18	0.81
		NH_3	0.65	2.85
38	Hot Pressure Relief Vent (Flare)	PM	0.63	0.10
		PM_{10}	0.63	0.10
		$PM_{2.5}$	0.63	0.10
		NO_x	33.71	6.16
		SO_2	0.03	0.01
		CO	622.27	104.37
		VOC	0.29	0.06
		Pb	<0.01	<0.01

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9	Briquetter Dedusting Scrubber Stack	PM	3.97	17.38
		PM_{10}	3.97	17.38
		$PM_{2.5}$	0.79	3.48
		NO_x	1.01	4.42
		SO_2	0.13	0.55
		CO	0.92	4.02
		VOC	0.09	0.40
		NH_3	1.77	7.73
11	HBI Cooling Conveyer Scrubber Stack	PM	1.90	8.34
		PM_{10}	1.90	8.34
		$PM_{2.5}$	0.95	4.17
		NH_3	8.01	35.11
14	HBI Pile (5)	PM	0.32	1.39
		PM_{10}	0.13	0.56
		$PM_{2.5}$	0.04	0.16
36	Remet/Fines Storage (5)	PM	0.17	0.74
		PM_{10}	0.04	0.20
		$PM_{2.5}$	0.01	0.02
30a	Process Water Degasser (5)	CO	21.72	95.13
		NH_3	2.78	12.18
		H_2S	0.01	0.06
30b	Process Water Degasser (5)	CO	2.54	11.11
		NH_3	0.14	0.61
		H_2S	0.01	0.05
33 Project Number: 302181	Salt Water Cooling Tower (5)	PM	13.91	60.91
		PM_{10}	0.06	0.28
		PM	0.06	0.28

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39	Paved Road Fugitive Dust (5)	PM	-	1.08
		PM_{10}	-	0.21
		$PM_{2.5}$	-	0.03
34	Emergency Generator	PM	0.47	0.02
		PM_{10}	0.47	0.02
		$PM_{2.5}$	0.47	0.02
		NO_x	32.09	1.60
		SO_2	0.04	<0.01
		CO	3.80	0.19
		VOC	0.99	0.05
35	Fire Pump	PM	0.03	<0.01
		PM_{10}	0.03	<0.01
		$PM_{2.5}$	0.03	<0.01
		NO_x	2.25	0.11
		SO_2	<0.01	<0.01
		CO	0.27	0.01
		VOC	0.07	<0.01
BFL-1	FPR Bag Filter Stack and Dryer Exhaust	PM	0.98	4.29
		PM_{10}	0.51	2.25
		$PM_{2.5}$	0.24	1.05
		NO_x	1.56	6.82
		SO_2	0.01	0.04
		CO	1.31	5.73
		VOC	0.09	0.38
BVF-1	FRP Bin Vent Filter 1 (Solid Binder Bin) (7)	PM	0.09	0.07
		PM_{10}	0.04	0.03
		$PM_{2.5}$	0.01	0.01
BVF-2	FRP Bin Vent Filter 2 (Dried Filter Cake Bin)	PM	<0.01	<0.01

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		$PM_{2.5}$	<0.01	<0.01
BVF-3	FRP Bin Vent Filter 3 (Pellet Dust Bin) (8)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
DP-2	FRP Briquette Curing Bin (Drop Point 2) (8)	PM	0.07	0.30
		PM_{10}	0.03	0.14
		$PM_{2.5}$	<0.01	0.02
ALL	All Sources	All HAPS	-	2.05

(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
NH_3 - ammonia
H_2S - hydrogen sulfide
n-Hexane - n-Hexane
Pb - lead
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
(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 and will need separate authorization unless the activity can meet the conditions of 30 TAC 116.119.
(7) Particulate matter emissions are from bentonite.
(8) Particulate matter emissions are from iron oxide.

Date: DRAFT