Permit Number 898

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)		Air Contaminant Name (3)	Emission Rates (10)	
			lbs/hour	TPY (4)
01, 02, 03, 04, 05, 06, 07, and 08	Railcar Unloading Baghouse Vents	РМ	1.65	7.21
		PM ₁₀	1.65	7.21
		PM _{2.5}	1.65	7.21
09, 10, 11, 12, 13, 14, 15, and 16	Raw Material Silo Baghouse Vents	РМ	1.65	7.21
		PM ₁₀	1.65	7.21
		PM _{2.5}	1.65	7.21
17, 25, 34, 35, 39, 40, 41, 42, 43, 44, 45, and	Cullet Hood Dust Collector Vents	РМ	8.16	35.71
50		PM ₁₀	8.16	35.71
		PM _{2.5}	8.16	35.71
18	Mix House Baghouse Vent	РМ	0.40	1.75
		PM ₁₀	0.40	1.75
		PM _{2.5}	0.40	1.75
19	Batch Plant Dust Collector Stack	PM	0.01	0.05
		PM ₁₀	0.01	0.05
		PM _{2.5}	0.01	0.05
20	Rouge/Coal Storage Baghouse Vent	PM	0.21	0.90
		PM ₁₀	0.21	0.90
		PM _{2.5}	0.21	0.90
22	Melting Furnace No.1 Stack (9)	РМ	71.00	198.49
		PM ₁₀	71.00	135.31
		PM _{2.5}	71.00	135.31

VOC 1.16 5.08 NO _x 739.00 894.25 CO 160.00 104.63 SO ₂ 80.00 180.27 23 Melting Furnace No.2 Stack (7) PM 71.00 291.90 PM ₁₀ 71.00 269.12	
CO 160.00 104.63 SO ₂ 80.00 180.27 23 Melting Furnace No.2 PM 71.00 291.90	
SO ₂ 80.00 180.27 23 Melting Furnace No.2 PM 71.00 291.90	
23 Melting Furnace No.2 PM 71.00 291.90	
Stack (7)	
1 10110 7 1.00 203.12	
PM _{2.5} 71.00 252.63	
VOC 1.16 5.08	
NO _x 739.00 2947.49	
CO 160.00 154.83	
SO ₂ 80.00 350.40	
22 and 23 Melting Furnaces Nos. 1 and 2 Stacks (6) Cr 0.22 0.96	
Se 45.00 31.00	
Co 0.01 0.04	
Si 19.00 82.00	
Ni 0.02 0.10	
Ce 9.00 39.42	
Ti 2.00 8.80	
FUG-1 Furnace Fugitives (5) PM 6.40 28.00	
PM ₁₀ 6.40 28.00	
PM _{2.5} 6.40 28.00	
NO _x 31.00 135.78	
CO 6.70 29.34	
SO ₂ 3.40 14.90	
Trace Metals 0.10 0.44	

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28	Solarcool Scrubber/SO ₂ Exhaust – Line 1 Stack	PM	4.37	9.57
		PM ₁₀	4.37	9.57
		PM _{2.5}	4.37	9.57
		Со	0.46	2.00
		SO ₂ (8)	23.00	75.00
		Cr	0.08	0.35
		Fe	0.50	2.20
29	Solarcool Mix Room Baghouse Vent	РМ	0.60	2.63
		PM ₁₀	0.60	2.63
		PM _{2.5}	0.60	2.63
30, 31	Line 2 West and East Stacks	SO ₂ (8)	23.00	75.00
32S, 33S	Line 1 West and East Stacks	SO ₂ (8)	23.00	75.00
36A, 36B, 37	Process W Line Nos. 1 and 2 Stacks	РМ	0.42	0.63
		PM ₁₀	0.42	0.63
		PM _{2.5}	0.42	0.63
38-1	Boiler 1 Stack	РМ	0.49	2.15
		PM ₁₀	0.49	2.15
		PM _{2.5}	0.49	2.15
		voc	0.11	0.49
		NO _x	2.97	13.02
		со	1.72	7.55
		SO ₂	6.88	30.12
38-3	Boiler 3 Stack	РМ	0.49	2.15
		PM ₁₀	0.49	2.15
		PM _{2.5}	0.49	2.15

		VOC	0.11	0.49
		NO _x	2.97	13.02
		со	1.72	7.55
		SO ₂	6.88	30.12
46, 47, 48, 49, 52, and 52A	Automatic Packing and Tempering Vacuum Transfer Vents	РМ	1.20	5.26
		PM ₁₀	1.20	5.26
		PM _{2.5}	1.20	5.26
55, 56, 57, 58, 59, 61, 63, and 68	Storage Tank Vents for Petroleum-Derived Materials	voc	4.16	0.18
FUG-2	Material Storage and Handling (5)	РМ	3.81	16.09
		PM ₁₀	1.90	8.04
		PM _{2.5}	1.90	8.04
		SO ₂ (8)	23.00	75.00
		voc	0.21	0.94
77 and 78	Tin Bath Vent Stack	РМ	0.10	0.35
		PM ₁₀	0.10	0.35
		PM _{2.5}	0.10	0.35
		Sn	<0.01	0.02
MSVD	MSVD Vacuum Chamber Vent	voc	0.09	0.33
TPO	MSVD TPO Process (5)	РМ	0.02	0.02
		PM ₁₀	0.02	0.02
		PM _{2.5}	0.02	0.02
		VOC	0.20	0.17
BUFF	MSVD Buff (5)	РМ	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01

	lass Scoring peration (5)	voc	6.00	5.00
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- (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

Cr - chromium
Se - selenium
Co - cobalt

Si - amorphous silica

Ni - nickel
Ce - cerium
Ti - titanium
Fe - iron
Sn - tin

- (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) The emission rates shown for Cr, Co, Ni, Si, Se, Ce, and Ti represent total combined emissions for both Furnace Nos. 1 and 2. The individual emissions rate from each stack can vary such that the sum of the emissions from the stacks of Melting Furnace Nos. 1 and 2 shall not exceed the total amount authorized.
- (7) The emissions have been represented and reviewed as the maximum emissions authorized by Air Quality Standard Permit for Pollution Control Project No. 103006.
- (8) The emission rates shown for SO₂ represent total combined emissions for EPNs 28, 30, 31, 32S, 33S, and FUG-2. The individual emission rate from each stack can vary such that the sum of the emissions from EPNs 28, 30, 31, 32S, 33S, and FUG-2 shall not exceed the total amount authorized.
- (9) The emissions have been represented and reviewed as the maximum emissions authorized by Air Quality Standard Permit for Pollution Control Project No. 83132.

(10) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.