

Emission Sources - Maximum Allowable Emission Rates

Permit Number 72199

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 (9) *	
			lbs/hour	TPY (5)
Plant No. 3 – Concrete Batch Plant located at Pressure Pipe Plant – interior coating of pipes > 72 in. diameters				
58 and 59	Cement Silos Baghouses	PM ₁₀	0.10	0.06
55 and 56	Mixers (4)	PM	0.17	0.23
		PM ₁₀	0.08	0.11
57	Mixers Dust Collector	PM ₁₀	0.09	0.12
52, 53 and 54	Material Handling (4)	PM	0.03	0.04
		PM ₁₀	0.01	0.02
STK 7	Stockpiles (4)	PM	--	0.14
		PM ₁₀	--	0.07
50	Boiler	NO _x	1.65	7.21
		CO	1.38	6.06
		SO ₂	< 0.01	0.04
		PM	0.13	0.55
		VOC	0.09	0.40
51	Boiler	NO _x	1.65	7.21
		CO	1.38	6.06
		SO ₂	< 0.01	0.04
		PM	0.13	0.55
		VOC	0.09	0.40

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Plant No. 4 – Mortar Batch Plant located at the Pressure Pipe Plant – exterior coating of pipes > 72 in diameters				
69	Cement Silo Baghouse	PM ₁₀	0.05	0.02
63	Mixer (4)	PM	0.04	0.06
		PM ₁₀	0.02	0.03
64	Mixer Dust Collector	PM ₁₀	0.02	0.03
61, 62, 65, 66, 67 and 68	Material Handling (4)	PM	0.02	< 0.01
		PM ₁₀	< 0.01	< 0.01
STK 9	Stockpiles (4)	PM	--	0.11
		PM ₁₀	--	0.05
60	Boiler	NO _x	1.30	5.71
		CO	1.09	4.79
		SO ₂	< 0.01	0.03
		PM	0.10	0.43
		VOC	0.07	0.31
Plant No. 6 – Mortar Batch Plant located at the Pressure Pipe Plant – interior coating of pipes with diameters between 10 and 72 inches				
74	Cement Silo Baghouse	PM ₁₀	0.05	0.01
72	Mixer (4)	PM	0.03	0.05
		PM ₁₀	0.02	0.03
73	Mixer Dust Collector	PM ₁₀	0.02	0.03
70 and 71	Material Handling (4)	PM	< 0.01	< 0.01
		PM ₁₀	< 0.01	< 0.01
STK 8	Stockpiles (4)	PM	--	0.24
		PM ₁₀	--	0.12

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Plant No. 7 – Mortar Batch Plant located at the Pressure Pipe Plant – exterior coating of pipes with diameters between 10 and 72 inches				
82a	Cement Silos Baghouse	PM ₁₀	0.05	0.02
77	Mixer (4)	PM	0.04	0.06
		PM ₁₀	0.02	0.03
78	Mixer Dust Collector	PM ₁₀	0.02	0.03
75, 76, 79, 80, 81 and 82	Material Handling (4)	PM	0.02	< 0.01
		PM ₁₀	< 0.01	< 0.01
STK 6	Stockpiles (4)	PM	--	0.11
		PM ₁₀	--	0.05
Plant No. 14 – Gunitite Batch Plant located at the Pressure Pipe Plant – coating of pipes or fittings				
87	Cement Silo Baghouse	PM ₁₀	0.05	0.01
85	Mixer (4)	PM	0.03	0.04
		PM ₁₀	0.02	0.02
86	Mixer Dust Collector	PM ₁₀	0.01	0.01
83 and 84	Material Handling (4)	PM	< 0.01	< 0.01
		PM ₁₀	< 0.01	< 0.01
STK 4 and 5	Stockpiles (4)	PM	--	0.36
		PM ₁₀	--	0.18
Plant No. 8 – Mortar Batch Plant located at the Steel Pipe Plant – interior coating of steel pipe				
93	Cement Silo Baghouse	PM ₁₀	0.05	0.01
92	Mixer (4)	PM	0.32	0.37
		PM ₁₀	0.15	0.18
94	Mixer Dust Collector	PM ₁₀	0.01	0.01
88, 89, 90 and 91	Material Handling (4)	PM	< 0.01	0.01
		PM ₁₀	< 0.01	< 0.01
STK10 and 12	Stockpiles (4)	PM	--	0.47
		PM ₁₀	--	0.23

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Steel Pipe Coating and Curing Operations				
95	Steel Pipe Coating Booth Stack	VOC (6)	27.68	14.78
		Exempt Solvent (6)	86.68	3.06
		PM	< 0.01	0.01
		PM ₁₀	< 0.01	0.01
		PM _{2.5}	< 0.01	0.01
FUG1STP	Coatings Fugitives	VOC (6)	4.68	3.67
		Exempt Solvent (6)	9.63	0.34
97	Heating Chamber Stack	NO _x	< 0.01	< 0.01
		CO	< 0.01	< 0.01
		SO ₂	< 0.01	< 0.01
		PM	< 0.01	< 0.01
		VOC	< 0.01	< 0.01
98	Heating Chamber Stack	NO _x	< 0.01	< 0.01
		CO	< 0.01	< 0.01
		SO ₂	< 0.01	< 0.01
		PM	< 0.01	< 0.01
		VOC	< 0.01	< 0.01
99	Steam Generator in Building C Lining Cure Yard	NO _x	0.06	0.28
		CO	0.05	0.23
		SO ₂	< 0.01	< 0.01
		PM	< 0.01	0.02
		VOC	< 0.01	0.02

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Pressure Pipe Coating Operations				
FUG3OPPC	Outdoor Pressure Pipe Coating Brush Application	VOC (7)	14.96	6.42
		Exempt Solvent (7)	0.48	0.34
FUG12OPP	Outdoor Pressure Pipe Coating Spray Application	VOC	36.59	4.54
		PM	0.34	0.05
Outdoor Abrasive Blasting Operations				
F12SSPBA AND FUG3PPBA	Outdoor Dry Abrasive Blast Cleaning	PM	6.42	4.82
		PM ₁₀	0.76	0.57
SB1PPBA, SB1SSPBA and SB2SSPBA	Storage Bin Baghouses	PM	0.14	< 0.01
		PM ₁₀	0.14	< 0.01
PF1PPBA, PF1SSPBA and PF2SSPBA	Pot Filling (4)	PM	< 0.01	< 0.01
		PM ₁₀	< 0.01	< 0.01
MTL1 and MTL2	Material Handling (4)	PM	< 0.01	< 0.01
		PM ₁₀	< 0.01	< 0.01
Fuel Storage Tanks				
100	10,000 Gallon Diesel Fuel Tank	VOC	< 0.01	< 0.01
101	12,000 Gallon Diesel Fuel Tank	VOC	< 0.01	< 0.01
102	8,000 Gallon Diesel Fuel Tank	VOC	< 0.01	< 0.01
103	10,000 Gallon Gasoline Fuel Tank	VOC	0.09	0.39
Site-Wide Hazardous Air Pollutant (HAP) Limitation				
All Emission Points at the Site (8)	All Sources at the Site	Individual HAP	--	< 10.00
		All HAPs	--	< 25.00

- (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.

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- (3) CO - carbon monoxide
Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
HAP - any air contaminant (pollutant) listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
NO_x - total oxides of nitrogen
PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}
PM_{2.5} - total particulate matter equal to or less than 2.5 microns in diameter
SO₂ - sulfur dioxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Annual emission rates are for each rolling consecutive 12-month period.
- (6) Valid substitution in accordance with Special Condition No. 22 may cause rate to vary. Hourly VOC plus exempt solvent emissions from Emission Point Nos. (EPNs) 95 and FUG1STP shall not exceed 114.36 pound per hour (lb/hr) and 14.31 lb/hr, respectively. Annual VOC plus exempt solvent emissions from EPNs 95 and FUG1STP shall not exceed 17.84 tons per year (tpy) and 4.01 tpy, respectively.
- (7) Valid substitution in accordance with Special Condition No. 22 may cause rate to vary. Hourly and annual VOC plus exempt solvent emissions from EPN FUG3OPPC shall not exceed 15.44 lb/hr and 6.76 tpy, respectively.
- (8) All surface coating facilities, including those authorized by Permit Number 22366 and those authorized by permit by rule (PBR) under 30 TAC Chapter 106.
- (9) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Plant No. 3 - Concrete Batch Plant located at the Pressure Pipe Plant

24 Hrs/day 7 Days/week 52 Weeks/year but not to exceed 8,760 Hrs/year

Maximum Hourly Production: 80 Cubic yards/hour

Maximum Annual Production: 215,000 Cubic yards/year

Plant No. 4 - Mortar Batch Plant located at the Pressure Pipe Plant

24 Hrs/day 7 Days/week 52 Weeks/year but not to exceed 8,760 Hrs/year

Maximum Hourly Production: 20 Cubic yards/hour

Maximum Annual Production: 60,000 Cubic yards/year

Plant No. 6 - Mortar Batch Plant located at the Pressure Pipe Plant

24 Hrs/day 7 Days/week 52 Weeks/year but not to exceed 8,760 Hrs/year

Maximum Hourly Production: 15 Cubic yards/hour

Maximum Annual Production: 50,000 Cubic yards/year

Plant No. 7 - Mortar Batch Plant located at the Pressure Pipe Plant

24 Hrs/day 7 Days/week 52 Weeks/year but not to exceed 8,760 Hrs/year

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Maximum Hourly Production: 20 Cubic yards/hour
Maximum Annual Production: 60,000 Cubic yards/year

Plant No. 14 - Guniting Batch Plant located at the Pressure Pipe Plant
24 Hrs/day 7 Days/week 52 Weeks/year but not to exceed 8,760 Hrs/year
Maximum Hourly Production: 15 Cubic yards/hour
Maximum Annual Production: 35,000 Cubic yards/year

Plant No. 8 - Mortar Batch Plant located at the Steel Pipe Plant - interior coating of steel pipe
24 Hrs/day 7 Days/week 52 Weeks/year but not to exceed 8,760 Hrs/year
Maximum Hourly Production: 15 Cubic yards/hour
Maximum Annual Production: 35,000 Cubic yards/year

Outdoor Abrasive Blasting - EPN F12SSPBA
11 Hrs/day 7 Days/week 52 Weeks/year but not to exceed 4,004 Hrs/year
Maximum Hourly Blast Media Usage: 0.82 Tons/hour
Maximum Annual Blast media Usage: 1,229 Tons/year

Outdoor Abrasive Blasting - EPN FUG3PPBA
11 Hrs/day 7 Days/week 52 Weeks/year but not to exceed 4,004 Hrs/year
Maximum Hourly Blast Media Usage: 0.30 Tons/hour
Maximum Annual Blast media Usage: 456 Tons/year

Date: April 7, 2015