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. 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 * lb/hr	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 in

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

Plant No. 7 - Mortar Batch Plant located at the Pressure Pipe Plant - exterior coating of pipes with

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<u>diameters between 10 and 72 in</u>				
82a	Cement Silo=s 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
<u>Plant No. 14 - Gunite Batch Plant located at the Pressure Pipe Plant - coating of pipes or fittings</u>				
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
<u>Plant No. 8 - Mortar Batch Plant located at the Steel Pipe Plant - interior coating of steel pipe</u>				
93	Cement Silo Baghouse	PM_{10}	0.05	0.01
92	Mixer (4)	PM	0.32	0.37
			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
STK 10 and 12	Stockpiles (4)	PM	--	0.47

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		PM_{10}	--	0.23
Steel Pipe Coating and Curing Operations				
95	Steel Pipe Coating Booth Stack	VOC (6) Exempt Solvent (6) PM_{10}	27.68 86.68 <0.01	17.38 8.67 <0.01
FUG1STP	Coatings Fugitives	VOC (6) Exempt Solvent (6)	2.67 9.63	1.07 0.96
97	Heating Chamber Stack	NO_x CO SO_2 PM VOC	<0.01 <0.01 <0.01 <0.01 <0.01	<0.01 <0.01 <0.01 <0.01 <0.01
98	Heating Chamber Stack	NO_x CO SO_2 PM VOC	<0.01 <0.01 <0.01 <0.01 <0.01	<0.01 <0.01 <0.01 <0.01 <0.01
99	Steam Generator in Building C Lining Cure Yard	NO_x CO SO_2 PM VOC	0.06 0.05 <0.01 <0.01 <0.01	0.28 0.23 <0.01 0.02 0.02
Pressure Pipe Coating Operations				
FUG3OPPC	Outdoor Pressure Pipe Coating Brush Application	VOC (7) Exempt Solvent (7)	14.96 0.48	6.42 0.34
FUG12OPP	Outdoor Pressure Pipe Coating Spray Application	VOC (7) PM	36.59 0.34	4.54 0.05

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Outdoor Abrasive Blasting Operations				
F12SSPBA and FUG3PPBA	Outdoor Dry Abrasive Blast Cleaning	PM PM_{10}	6.42 0.76	4.82 0.57
SB1PPBA, SB1SSPBA, and SB2SSPBA	Storage Bin Baghouses	PM PM_{10}	0.14 0.14	<0.01 <0.01
PF1PPBA, PF1SSPBA, and PF2SSPBA	Pot Filling (4)	PM PM_{10}	<0.01 <0.01	<0.01 <0.01
MTL1 and MTL2	Material Handling (4)	PM PM_{10}	<0.01 <0.01	<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 tank	VOC	0.09	0.39
Site-Wide Hazardous Air Pollutant (HAP) Limitation				
ALL (8)	Various	Individual HAP All HAPs	-- --	<10.00 <25.00

(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
(2) Specific point source names. For fugitive sources, use an area name or fugitive source name.

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(3) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1 (30 TAC § 101.1

NO_x - total oxides of nitrogen

SO_2 - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$

PM_{10} - particulate matter equal to or less than 10 microns in diameter

$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

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) 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. 27 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 12.30 lb/hr, respectively. Annual VOC plus exempt solvent emissions from EPNs 95 and FUG1STP shall not exceed 26.05 tons per year (tpy) and 2.03 tpy, respectively.

(7) Valid substitution in accordance with Special Condition No. 27 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.

* 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

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

Plant No. 14 - Gunite 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

Dated November 3, 2008