

**Title V Semi-Annual Monitoring Verification Report  
US Pipe and Foundry Company, Plant #A0083**

**Applicable Limits and Compliance Monitoring Requirements  
Table VII-A  
S-1 Cupola**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Opacity	BAAQMD 6-301	Y		Ringelmann No.1 for less than 3 minutes in any hour	BAAQMD cond #2274, Parts 4 and 5	C	temperature monitor, pressure drop monitor	Y	
	BAAQMD 6-301	Y		Ringelmann No.1 for less than 3 minutes in any hour	BAAQMD Cond #2274, Part 8	P/D	preventative maintenance records	Y	
	BAAQMD 6-301	Y		Ringelmann No.1 for less than 3 minutes in any hour	BAAQMD Cond #2274, Part 8	P/W	Visible emission monitoring	Y	
PM	BAAQMD 6-305	Y		Fallout of visible particles	BAAQMD cond #2274, Parts 4 and 5	C	temperature monitor, pressure drop monitor	Y	
FP	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD cond #2274, Parts 4 and 5	C	temperature monitor, pressure drop monitor	Y	
FP	BAAQMD 6-311	Y		40 lb/hr	BAAQMD cond #2274, Parts 4 and 5	C	Temperature monitor, pressure drop monitor	Y	
SO <sub>2</sub>	BAAQMD 9-1-301	Y		GLC <sup>1</sup> of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N		Y	

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
	BAAQMD 9-1-302	Y		sulfur emissions not to exceed 300 ppm, dry	BAAQMD condition #2274, part 7	P/E  P/E	Fuel certification; Source test when coke sulfur exceeds 0.75%	Y	
SO <sub>2</sub>	BAAQMD Condition #2274, part 7	Y		Sulfur content of coke not to exceed 1.0%	BAAQMD condition #2274, part 7	P/E	Fuel certification	Y	
Lead	BAAQMD 11-1-301	Y		15 lb/day		N		Y	
	BAAQMD 11-1-302	Y		GLC <sup>1</sup> not to exceed 1.0 ug/m <sup>3</sup> averaged over 24 hrs		N		Y	
Grey iron throughput	BAAQMD Condition #2274, part 2	Y		600 tons per day	BAAQMD condition 2274, part 6	P, D	Records	Y	
Afterburner Temperature limit	BAAQMD Condition #2274, part 3	Y		1550oF	BAAQMD condition 2274, part 5	C	Continuous Temperature monitor	Y	

<sup>1</sup>Ground Level Concentration

Note: S-1 is abated by A-13 baghouse. The A-13 baghouse pressure drop is from 1" to 6" of WC. Bag cleaning is set automatically to clean at a pressure drop of 3" WC to 4" WC so as to maintain a pressure drop of less than 6" WC. During high blast rates, melt down procedures and burn in procedures, the pressure drop usually hits in the 6" to 8" of WC range and recovers during normal cleaning cycles. The Title V permit renewal has considered this event and adjusted the pressure drop requirements.

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**Applicable Limits and Compliance Monitoring Requirements**

**Table VII-B  
S-4 Ductile Treating Station**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Opacity	BAAQMD 6-301	Y		Ringelmann No.1 for less than 3 minutes in any hour	BAAQMD cond #1783, Part 3	C	pressure drop monitor	Y	
	BAAQMD 6-301	Y		Ringelmann No.1 for less than 3 minutes in any hour	BAAQMD Cond #1783, Part 6	P/W	preventative maintenance records	Y	
	BAAQMD 6-301	Y		Ringelmann No.1 for less than 3 minutes in any hour	BAAQMD Cond #1783, Part 7	P/W	Visible emission monitoring	Y	
PM	BAAQMD 6-305	Y		Fallout of visible particles	BAAQMD cond #1783, Part 3	C	Pressure drop monitor	Y	
FP	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD cond #1783, Part 3	C	Pressure drop monitor	Y	
FP	BAAQMD 6-311	Y		40 lb/hr	BAAQMD cond #1783, Part 3	C	Pressure drop monitor	Y	
Lead	BAAQMD 11-1-301	Y		15 lb/day		N		Y	
	BAAQMD 11-1-302	Y		GLC <sup>1</sup> not to exceed 1.0 ug/m <sup>3</sup> averaged over 24 hrs		N		Y	
SO <sub>2</sub>	BAAQMD 9-1-301	Y		GLC <sup>1</sup> of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N		Y	
	9-1-302	Y		sulfur emissions not to exceed 300 ppm, dry		N		Y	
SO <sub>2</sub>	BAAQMD Condition #1783, part 2	Y		150 lb/day		N		Y	

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**Applicable Limits and Compliance Monitoring Requirements  
Table VII-B  
S-4 Ductile Treating Station**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Bag cleaning or replacement	BAAQMD Condition #1783, part 5	Y		Bag cleaning or replacement required when pressure drop exceeds 6 inches water column	BAAQMD Condition #1783, part 3	C	Pressure drop monitor	Y	

<sup>1</sup> Ground Level Concentration

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**Applicable Limits and Compliance Monitoring Requirements**

**Table VII-C  
S-5 Ladle Lancing**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Opacity	BAAQMD 6-301	Y		Ringelmann No.1 for less than 3 minutes in any hour	BAAQMD cond #14989, Part 1	P/D	preventative maintenance records	Y	
	BAAQMD 6-301	Y		Ringelmann No.1 for less than 3 minutes in any hour	BAAQMD Cond #14989, Part 2	P/W	Visible emission monitoring	Y	
	BAAQMD 6-305	Y		Fallout of visible particles		N		Y	
	BAAQMD 6-310	Y		0.15 gr/dscf		N		Y	
	BAAQMD 6-311	Y		40 lb/hr		N		Y	

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**Applicable Limits and Compliance Monitoring Requirements**

**Table VII-D  
S-8 Bell Blowout**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Opacity	BAAQMD 6-301	Y		Ringelmann No.1 for less than 3 minutes in any hour	BAAQMD cond #2212, Part 3	C	pressure drop monitor	Y	
	BAAQMD 6-301	Y		Ringelmann No.1 for less than 3 minutes in any hour	BAAQMD Cond #2212, Part 4	P/W	Visible emission monitoring	Y	
PM	BAAQMD 6-305	Y		Fallout of visible particles	BAAQMD cond #2212, Part 3	C	pressure drop monitor	Y	
FP	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD cond #2212, Part 3	C	pressure drop monitor	Y	
	BAAQMD 6-311	Y		40 lb/hr	BAAQMD cond #2212, Part 3	C	pressure drop monitor	Y	
Bag cleaning or replacement	BAAQMD Condition #2212, part 2	Y		Bag cleaning or replacement required when pressure drop exceeds 6 inches water column	BAAQMD Condition #2212, part 3	C	Pressure drop monitor	Y	

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**Applicable Limits and Compliance Monitoring Requirements**

**Table VII-E  
S-15 Annealing Oven**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Opacity	BAAQMD 6-301	Y		Ringelmann No.1 for less than 3 minutes in any hour	BAAQMD cond #14990, Part 1	P/M	Visible emission monitoring	Y	
PM	BAAQMD 6-305	Y		Fallout of visible particles		N		Y	
FP	BAAQMD 6-310	Y		0.15 gr/dscf		N		Y	
FP	BAAQMD 6-311	Y		40 lb/hr		N		Y	
SO <sub>2</sub>	BAAQMD 9-1-301	Y		GLC <sup>1</sup> of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N		Y	
	BAAQMD 9-1-302	Y		sulfur emissions not to exceed 300 ppm, dry		N		Y	

<sup>1</sup>Ground Level Concentration

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**Applicable Limits and Compliance Monitoring Requirements**

**Table VII-F  
S-16 Pneumatic Cement Transport System**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Opacity	BAAQMD 6-301	Y		Ringelmann No.1 for less than 3 minutes in any hour	BAAQMD cond #14991, Part 1	P/M	Visible emission monitoring	Y	
PM	BAAQMD 6-305	Y		Fallout of visible particles		N		Y	
FP	BAAQMD 6-310	Y		0.15 gr/dscf		N		Y	
	BAAQMD 6-311	Y		40 lb/hr		N		Y	



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**Applicable Limits and Compliance Monitoring Requirements**

**Table VII-G  
S-17 Surface Coater**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
VOC	BAAQMD 8-19-302.2	Y		VOC limit of 2.8 lb/gal	BAAQMD 8-19-501	P/W	coating records	Y	
	BAAQMD Condition #20671, part 1	Y		Coating usage limit of 156,000 gallons per year; solvent usage limit of 5,200 gallons per year	BAAQMD Condition #20671, part 3	P	Coating and solvent usage records	Y	
	BAAQMD Condition #20671, part 2	Y		Alternative coating/solvent mass emission limit of 94.9 tons per year	BAAQMD Condition #20671, part 3	P	Coating and solvent usage records	Y	

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**Applicable Limits and Compliance Monitoring Requirements**

**Table VII-H  
S-32 Pneumatic Dust Transport System**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Opacity	BAAQMD 6-301	Y		Ringelmann No.1 for less than 3 minutes in any hour		N		N/A*	
PM	BAAQMD 6-305	Y		Fallout of visible particles		N		N/A*	
FP	BAAQMD 6-310	Y		0.15 gr/dscf		N		N/A*	
	BAAQMD 6-311	Y		40 lb/hr		N		N/A*	
FP	BAAQMD Condition #2676, part 3	Y		grain loading from A-19 Baghouse not to exceed 0.10 gr/dscf		N		N/A*	
Lead	BAAQMD 11-1-301	Y		15 lb/day		N		N/A*	
	BAAQMD 11-1-302	Y		GLC <sup>1</sup> not to exceed 1.0 ug/m <sup>3</sup> averaged over 24 hrs		N		N/A*	
Hours of operation	BAAQMD Condition #2676, part 2	Y		11 hours per day	BAAQMD Condition #2676, part 5	P	Operating records	N/A*	

<sup>1</sup> Ground Level Concentration

**\* Note: S-32 Pneumatic Dust Transport System has not been used during this reporting period.**

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**Applicable Limits and Compliance Monitoring Requirements**

**Table VII-I  
S-33 Gasoline Dispensing Facility (Non-Retail)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
POC	BAAQMD 8-7-301.10	N		minimum vapor recovery efficiency of lesser of 98% or CARB-certified efficiency for new or modified systems	BAAQMD Condition #18432, part 2	P/A	Source Test	Y	
	BAAQMD Regulation 8-7-313.1	N		Fugitives ≤ 0.42 lb/1000 gallon		N		Y	
	BAAQMD Regulation 8-7-313.2	N		Spillage ≤ 0.42 lb/1000 gallon		N		Y	
	BAAQMD Regulation 8-7-313.3	N		Liquid Retain + Spitting ≤ 0.42 lb/1000 gallon		N		Y	
	None	N		None	BAAQMD Regulation 8-7-503	P/M	Records	Y	
	SIP Regulation 8-7-301.2	Y		95% recovery of gasoline vapors		N		Y	
Gasoline throughput	BAAQMD condition #18432, part 1	Y		940,000 gallons per year	BAAQMD Regulation 8-7-503	P	Records	Y	

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**Applicable Limits and Compliance Monitoring Requirements**

**Table VII-J  
S-40 Portable Abrasive Blasting Unit #1**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Opacity	BAAQMD 12-4-301	Y		Ringelmann No. 1 Limitation		N		N/A*	
	BAAQMD 12-4-302	Y		Ringelmann No. 2 Limitation		N		N/A*	
Usage	BAAQMD Condition 13321, part 1	Y		25 tons per 12- month period or 900 lbs per calendar day	BAAQMD Condition 13321, part 3	P/D	records	N/A*	

**Table VII-K  
S-41 Portable Abrasive Blasting Unit #2**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Opacity	BAAQMD 12-4-301	Y		Ringelmann No. 1 Limitation		N		Y	
	BAAQMD 12-4-302	Y		Ringelmann No. 2 Limitation		N		Y	
Usage	BAAQMD Condition 13321, part 4	Y		5 tons per 12- month period or 1000 lbs per calendar day	BAAQMD Condition 13321, part 6	P/D	records	Y	

**\* Note: S-40 Portable Abrasive Blasting Unit #1 has not been used during this reporting period.**

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**Applicable Limits and Compliance Monitoring Requirements**

**Table VII-L  
S-42 Cold Cleaner #2  
S-43 Cold Cleaner #3**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
POC	BAAQMD Condition #16938, part 2(a)	Y		101 pounds per year	BAAQMD Condition #16938, part 3	P	Usage Records	Y	
NPOC	BAAQMD Condition #16938, part 2(b)	Y		0 pounds per year	BAAQMD Condition #16938, part 3	P	Usage Records	Y	

**\* Note: Only one Cold Cleaner (S-42) has not been used during this reporting period.**

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**Applicable Limits and Compliance Monitoring Requirements**

**Table VII - M  
S-51 STANDBY GENERATOR DIESEL ENGINE  
S-52 STANDBY GENERATOR DIESEL ENGINE**

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>	<u>Compliance</u>	
								<u>Yes</u>	<u>No</u>
<u>Opacity</u>	<u>BAAQMD 6-303.1</u>	Y		> Ringelmann No. 2 for no more than 3 minutes in any hour		N		N/A*	
<u>FP</u>	<u>BAAQMD 6-310</u>	Y		0.15 grain/dscf		N		N/A*	
	<u>BAAQMD 6-310.3</u>	Y		0.15 grain/dscf @ 6% O <sub>2</sub>		N		N/A*	
<u>SO<sub>2</sub></u>	<u>BAAQMD 9-1-301</u>	Y		GLC <sup>1</sup> of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours	<u>BAAQMD Condition #20974, part 1</u>	P/M	<u>Fuel Certification Records</u>	N/A*	
	<u>BAAQMD 9-1-304</u>	Y		sulfur emissions not to exceed 300 ppm, dry	<u>BAAQMD Condition #20974 part 1</u>	P/M	<u>Fuel Certification Records</u>	N/A*	
<u>Operating hours</u>	<u>BAAQMD 9-8-330</u>	Y		100 hours of reliability-related operation per calendar year	<u>BAAQMD Regulation 9-8-530</u>	P/M	<u>Records of operation</u>	N/A*	

**\* Note: Emergency Generators (S-51 & S-52) have not been used during this reporting period.**