

Title V Semi-Annual Monitoring Verification Report
September 1, 2011 to February 29, 2012

S-1 CUPOLA

Type of Limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
							Yes	No
Opacity	6-301	Y	Ringelmann No.1 for no more than 3 min in any hour	Condition #9351, part 2	C	Temperature monitor	Y	
	6-301	Y	Ringelmann No.1 for no more than 3 min in any hour	Condition #9351, part 5	P/W	Visible Emission Monitoring	Y	
FP	6-310	Y	0.15 gr/dscf	Condition #9351, part 6	P/W	Preventive maintenance records	Y	
	6-311	Y	4.10 P ^{0.87} lb/hr, where P is process weight in ton/hr	Condition #9351, part 6	P/W	Preventive maintenance records	Y	
	Condition #9351, part 1	Y	700° F. minimum at cupola exhaust crossover	Condition #9351, part 2	C	Temperature monitor	N/A ¹	
TPS	Condition #9351, part 7	Y	172,800 tons per year gray iron throughput	Condition #9351, part 8	P/M	Records	Y	
SO ₂	9-1-301	Y	GLC1 of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hrs		N			
	9-1-302	Y	300 ppm (dry)	Condition #9351, part 4	P/E	Sulfur Content of Coke	Y	
Lead	11-1-301	Y	15 lb/day		N			
	11-1-302	Y	Ground level concentration not to exceed 1.0 ug/m ³ averaged over 24 hrs		N			

1. Inspector Barnes stated this condition was not enforceable.

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S-2 VIBRATING TUBULAR SHAKEOUT

Type of Limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
							Yes	No
Opacity	6-301	Y	Ringelmann No.1 for no more than 3 min in any hour	Condition #23650, part 2	P/W	Preventive maintenance records	Y	
			Ringelmann No.1 for no more than 3 min in any hour	Condition #23650, part 3	P/W	Visible Emission Monitoring	Y	
FP	6-310	Y	0.15 gr/dscf	Condition #23650, part 5	P/W	Preventive maintenance records	Y	
	6-311	Y	$4.10 P^{0.67}$ lb/hr, where P is process weight in ton/hr	Condition #23650, part 2	P/W	Preventive maintenance records	Y	
	Condition #23650, part 5	Y	572,000 tons per year sand throughput	Condition #23650, part 6	P/M	Records	Y	

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S-3 SAND MULLER

Type of Limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
							Yes	No
Opacity	6-301	Y	Ringelmann No.1 for no more than 3 min in any hour	Condition #2237, part 6	P/W	Preventive maintenance records	Y	
			Ringelmann No.1 for no more than 3 min in any hour	Condition #2237, part 7	P/W	Visible Emission Monitoring	Y	
FP	6-310	Y	0.15 gr/dscf	Condition #2237, part 6	P/W	Preventive maintenance records	Y	
	6-311	Y	4.10 P ^{0.87} lb/hr, where P is process weight in ton/hr	Condition #2237, part 2	P/W	Preventive maintenance records	Y	
	Condition #2237, part 1	Y	36,000 tons good iron/month for entire facility	Condition #2237, part 5	P/M	Records	Y	
	Condition #2237, part 4	Y	0.04 gr/dscf	Condition #2237, part 6	P/W	Preventive maintenance records	Y	
	Condition #2237, part 8	Y	1,322,880 tons per year sand throughput	Condition #2237, part 8	P/M	Records	Y	

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 S-4 SHOT BLAST CLEANING MACHINES

Type of Limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
							Yes	No
Opacity	6-301	Y	Ringelmann No. 1 for no more than 3 min in any hour	Condition #10139, part 4	P/W	Visible Emission Monitoring	Y	
FP	6-310	Y	0.15 gr/dscf	Condition #10139, part 3	P/W	Preventive maintenance records	Y	
	6-311	Y	$4.10 P^{0.87}$ lb/hr, where P is process weight in ton/hr	Condition #10139, part 3	P/W	Preventive maintenance records	Y	
TSP	Condition #10139, part 6	Y	4,600 tons per year blast media throughput	Condition #10139, part 8	P/M	Records	Y	

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S-5 SHOT BLAST CLEANING MACHINES

Type of Limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
							Yes	No
TSP	6-301	Y	Ringelmann No. 1 for no more than 3 min in any hour	Condition #10139, part 4	P/W	Visible Emission Monitoring	Y	
	6-310	Y	0.15 gr/dscf	Condition #10139, part 3	P/W	Preventive maintenance records	Y	
	6-311	Y	$4.10 P^{0.87}$ lb/hr, where P is process weight in ton/hr	Condition #10139, part 3	P/W	Preventive maintenance records	Y	
	Condition #10139, part 7	Y	2,800 tons per year blast media throughput	Condition #10139, part 8	P/M	Records	Y	

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S-11 CUPOLA HOT BLAST (Removed)

Type of Limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
							Yes	No
Opacity	6-301	Y	Ringelmann No. 1 for no more than 3 min in any hour		N			
FP	6-310	Y	.015 gr/dscf		N			
	6-311	Y	4.10 P ^{0.87} lb/hr, where P is process weight in ton/hr		N			
	Condition #17727, part 1	Y	56,240 MM BTU p per year	Condition #17727, part 3	P/M	Records	N/A	
SO ₂	9-1-301	Y	GLC1 of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hrs		N			
	9-1-302	Y	300 ppm (dry)		N			

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S-13 DIP TANK (Removed)

Type of Limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
							Yes	No
VOC	8-19-302	Y	Coating VOC Content Limit of 2.8 lb/gal	8-19-501	P/W	Coating records	N/A	
	Condition #17727, part 2	Y	50,000 gallons of coating per year	Condition #17727, part 3	P/M	Records	N/A	

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S-21 SAND COOLER

Type of Limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
							Yes	No
Opacity	6-301	Y	Ringelmann No. 1 for no more than 3 min in any hour	Condition #2237, part 6	P/W	Preventive Maintenance Records	Y	
			Ringelmann No.1 for no more than 3 min in any hour	Condition #2237, part 7	P/W	Visible Emission Monitoring	Y	
FP	6-310	Y	0.15 gr/dscf	Condition #2237, part 6	P/E	Preventive Maintenance Records	Y	
	6-311	Y	4.10 P ^{0.67} lb/hr, where P is process weight in ton/hr	Condition #2237, part 6	P/W	Preventive Maintenance Records	Y	
	Condition #2237, Part 4	Y	0.04 gr/dscf	Condition #2237, part 6	P/W	Preventive Maintenance Records	Y	
FP	Condition #2237, part 9	Y	36,000 tons good iron/month for entire facility	Condition #2237, part 5	P/M	Records	Y	
	Condition #2237, part 9	Y	936,000 tons per year sand throughput	Condition #2237, part 10	P/M	Records	Y	

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 S-23 COATING STORAGE TANK

Type of Limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
							Yes	No
VOC	Condition #6575, part 1	Y	110,000 gallons per year coating throughput	Condition #6575, part 1	P/M	Coating records	Y	

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 S-24 SOLVENT STORAGE TANK

Type of Limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
							Yes	No
VOC	Condition #6575, part 3	Y	20,000 gallons per year solvent throughput	Condition #6575, part 5	P/M	Coating records	N/A	

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S-25 HOLDING FURNACE

Type of Limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
							Yes	No
Opacity	6-301	Y	Ringelmann No. 1 for no more than 3 min in any hour	Condition #9668, part 2	P/W	Preventive maintenance records	Y	
			Ringelmann No.1 for no more than 3 min in any hour	Condition #9668, part 4	P/W	Visible Emission Monitoring	Y	
FP	6-310	Y	0.15 gr/dscf	Condition #9668, part 2	P/W	Preventive maintenance records	Y	
	6-311	Y	4.10 P ^{0.67} lb/hr. where P is process weight in ton/hr	Condition #9668, part 2	P/W	Preventive maintenance records	Y	
	Condition #9668, part 5	Y	172,800 tons good per year gray iron throughput	Condition #9668, part 6	P/M	Records	Y	

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S-26 STENCIL COATING WHEEL (Removed – replaced by S-32)

Type of Limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/M)	Monitoring Type	Compliance	
							Yes	No
VOC	8-4-302.1	Y	5 ton/year	Condition #11090, part 2	P/M	Coating records	N/A	
	Condition #11090, part 1	Y	450 gal/yr	Condition #11090, part 2	P/M	Coating records	N/A	

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S-27 SHOT BLAST CLEANING MACHINE

Type of Limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
							Yes	No
Opacity	6-301	Y	Ringelmann No. 1 for no more than 3 min in any hour	Condition #10139, part 3	P/W	Preventive maintenance records	Y	
			Ringelmann No. 1 for no more than 3 min in any hour	Condition #10139, part 4	P/W	Visible Emission Monitoring	Y	
FP	6-310	Y	0.15 gr/dscf	Condition #10139, part 3	P/W	Preventive maintenance records	Y	
			0.15 gr/dscf	Condition #10139, part 4	P/W	Visible Emission Monitoring	Y	
	6-311	Y	4.10 P ^{0.87} lb/hr, where P is process weight in ton/hr	Condition #10139, part 3	P/W	Preventive maintenance records	Y	
FP			4.10 P ^{0.87} lb/hr, where P is process weight in ton/hr	Condition #10139, part 4	P/W	Visible Emission Monitoring	Y	
	Condition #10139, part 1	Y	36 tons shot/yr	Condition #10139, part 5	P/M	Records	Y	

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S-28 STORAGE SILO

Type of Limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
							Yes	No
Opacity	6-301	Y	Ringelmann No.1 for no more than 3 min in any hour	Condition #10762, part 4	P/W	Preventive maintenance records	Y	
			Ringelmann No.1 for no more than 3 min in any hour	Condition #10762, part 5	P/W	Visible Emission Monitoring	Y	
			Ringelmann No.1 for no more than 3 min in any hour	Condition #10762, part 3	P/W	Pressure Drop Monitoring	Y	
FP	6-310	Y	0.15 gr/dscf	Condition #10762, part 4	P/W	Preventive maintenance records	Y	
	6-311	Y	$4.10 P^{0.87}$ lb/hr, where P is process weight in ton/hr	Condition #10762, part 4	P/W	Preventive maintenance records	Y	
	Condition #10762, part 7	Y	900 tons per year material throughput	Condition #10762, part 8	P/M	Records	Y	

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S-32 FLOW COATER

Type of Limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
							Yes	No
	Condition #21322, part 1	Y	2,500 gal/yr Ink	Condition #21322, part 4	P/M	Coating records	Y	
	Condition #21322, part 2	Y	1,000 gal/yr Acetone	Condition #11090, part 4	P/M	Coating records	Y	