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Comprehensive Emissions Test Report

Grede, LLC-Iron Mountain
Particulate, CO, SO₂
Compliance Testing

Testing Date(s): December 9-12, 2013
Report Date: January 28, 2014
Revision Date: No revision to date

Subject Facility:

Grede, LLC-Iron Mountain
801 South Carpenter Ave.
Kingsford, MI 49802

Regulatory Permit No.:

199700016
MI-ROP-B1577-2009A
PTI 256-09A

Subject Emission Sources:

Cupola	EUP009
Ductile Iron	EUP044
Facility Fugitive Emissions	

Test Locations:

Baghouse Inlet & Exhaust
Baghouse Stack

Report Prepared For:

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Pace Project No. 12-13-1148

Executive Summary

Grede, LLC contracted Pace Analytical Services, Inc. to perform particulate (PM/PM10) emissions compliance testing on the Ductile Iron Baghouse and particulate (PM/PM10), carbon monoxide (CO), and sulfur dioxide (SO₂) emissions compliance testing on the Cupola at the Grede, LLC-Iron Mountain facility located in Kingsford, Michigan. Testing was performed on December 9-12, 2013. Summary results are highlighted in the following table:

Test Results Summary

<u>Parameter</u>	<u>Run 1</u>	<u>Run 2</u>	<u>Run 3</u>	<u>Average</u>
Ductile Iron Baghouse				
Constituent Concentration, GR/DSCF				
PM (Dry Catch)	0.0020	0.0019	0.0014	0.0018
PM10 (Dry Catch + M202)	0.0022	0.0020	0.0017	0.0019
Constituent Mass Rate, LB/HR				
PM (Dry Catch)	0.13	0.12	0.09	0.12
PM10 (Dry Catch + M202)	0.14	0.13	0.11	0.13
Cupola Baghouse				
Constituent Concentration				
PM (Dry Catch), GR/DSCF	0.0014	0.0009	0.0015	0.0013
PM10 (Dry Catch + M202), GR/DSCF	0.0021	0.0012	0.0018	0.0017
CO, mg/dscm	6.1	3.0	4.6	4.6
SO ₂ , mg/dscm	8.7	7.8	13.5	10.0
Constituent Mass Rate				
PM (Dry Catch), LB/HR	0.27	0.20	0.31	0.26
PM (Dry Catch), LB/Ton Charged	0.022	0.014	0.028	0.021
PM (Dry Catch), LB/KLB Exhaust Gas	0.0025	0.0016	0.0028	0.0023
PM10 (Dry Catch + M202), LB/HR	0.41	0.25	0.36	0.34
CO, LB/HR	0.54	0.26	0.40	0.40
SO ₂ , LB/HR	0.77	0.69	1.18	0.88