

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
Indianapolis

OFFICE MEMORANDUM

To: Rick Massoels Date: June 15, 2018  
From: Jarrod C. Fisher JCF Thru: Dave Cline *DC*  
Subject: Indiana Harbor Coke Company L.P. a contractor of ArcelorMittal  
Source ID: 089-00382 Permit Number: # T089-36826-00382  
City: East Chicago County: Lake  
Protocol Reviewer: HDV Field Observer: HDV  
Test Company: AECOM

The Compliance Data Section has reviewed this report and found the sampling procedures used and results obtained to be acceptable to this office. A copy of the test report is filed in the Compliance Data Section. The following is a summary of the test results.

**Unit Tested: Four (4) Coke Oven Charging/Pushing Units ES202, ES202B, ES203 and ES203D**

Date of test: April 11, 2018

Test Purpose: Compliance

Type of Fuel: Coal

Pollution Control Equipment: Baghouse (Stack 204)

Permitted APCD Parameter Ranges: Pressure drop range of 1.0-8.0 inches H<sub>2</sub>O, fan amps

APCD Parameter During Testing: Pressure drop range of 4.8-7.0 inches of water, Minimum fan amps for Fan A was 66 amps, Minimum fan amps for Fan B was 50 amps

Pollutants: PM, Opacity

Test methods: 1-5, 9

Maximum Permitted Operating Rate: Four Batteries each @ 2013.7 tons coke per day  
240 wet tons coke/hr

Average Operating Rate During Test: Batteries A, B, C and D in operation  
Average of 17 ovens pushed per test run  
280 wet tons coke/hr

PM Emission Limit: 0.04 lb/ton (326 IAC 6.8-9-3(3)(C))

PM Emission Rate: 0.0033 lb/ton

PM Emission Limit: 0.03 gr/dscf (326 IAC 6.8-1-2)

PM Emission Rate: 0.0007 gr/dscf

PM Emission Limit: 0.01 gr/dscf (40 CFR 63, Subpart CCCCC)

PM Emission Rate: 0.0007 gr/dscf

Opacity Limit: 20% (326 IAC 5)

Average Opacity: 0%

Highest 6-Minute Opacity: 0%

STATUS: In Compliance

cc: J. Fisher, IDEM







UNIT TESTED:	Pushing Baghouse Stack
SOURCE:	Indiana Harbor Coke
TESTING COMPANY:	AECOM
DATE OF TEST:	April 11, 2018
METHODS:	5/202

Average Stack Temperature, Ts (F)		96.33
Average Stack Gas Velocity, Vs, fps		54.10
Average Stack Gas Flowrate, Qs, acfm		163173.33
Average Stack Gas Flowrate @ STD. COND., Dry Basis, Qstd (dscfm)		152716.83
Average Stack Gas Flowrate @ STD. COND., Dry Basis, Qstd (dscfh)		9163009.97
Average % Isokinetic, %I	Pass	101.82
Average % Isokinetic measured from intermediate values, %I	Pass	101.89
Average Post Test Cal (2-run)	Pass	1.017
Average Post Test Cal (3-run)	Pass	1.019

PM Only		
Average Pollutant Mass Emission Rate, PMR, lbs/hr		0.93
Average Concentration, gr/dscf		0.00071
Average Concentration, mg/dscm		1.627
Average PM Emission Rate, lbs/MMBtu (O2 dry basis)	#DIV/0!	
Average PM Emission Rate, lbs/MMBtu (CO2 dry basis)	#DIV/0!	
Average Pollutant Mass Emission Rate, PMR, lbs/ton		0.0033

PM10 (Condensable)		
Average Pollutant Mass Emission Rate, PMR, lbs/hr		0.00
Average Concentration, gr/dscf		0.000
Average Concentration, mg/dscm		0.000
Average Pollutant Mass Emission Rate, PMR, lbs/ton		0.000

PM10 (Filterable + Condensable)		
Average Pollutant Mass Emission Rate, PMR, lbs/hr		0.93
Average Concentration, gr/dscf		0.001
Average Concentration, mg/dscm		1.627
Average Pollutant Mass Emission Rate, PMR, lbs/ton		0.003

Average Production Rate, lb/hr		559,166.67
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Average Production Rate, ton/hr		279.58
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Opacity (highest 6-min average)		
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Average Opacity		
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