

U.S. et al., v. American Electric Power Service Corp, et al.,
Civil Action No. C2-99-1182 and consolidated cases
(U.S. District Court for the Southern District of Ohio)

**ANNUAL REPORT FOR 2014
REQUIRED BY THE CONSENT DECREE
ENTERED DECEMBER 10, 2007**

*Submitted
March 31, 2015*

I. Introduction

Section XI of the Consent Decree entered on December 10, 2007, in *U.S. v. American Electric Power Service Corp., et al.*, Civil Action No. C2-99-1182 (S. D. Ohio), and consolidated cases, requires the Defendants to submit an annual report to the United States, the States and the Citizen Plaintiffs on March 31 of each calendar year, beginning in 2008. This report covers calendar year 2014, from January 1, 2014, to December 31, 2014.

Appendix B to the Consent Decree sets forth the reporting requirements to be included in each annual report. This report follows the format of Appendix B. Many of the requirements take effect during the term of the Consent Decree, and some were not effective during calendar year 2014. Where such requirements were not in effect, it is so noted.

II. Annual Reporting Requirements

A. AEP Eastern System Annual Tonnage Limitations for SO₂ and NO_x

1. SO₂

During 2014 the AEP Eastern System Annual Tonnage Limitation for SO₂ was in effect. The Environmental Protection Agency's (EPA's) Clean Air Interstate Rule (CAIR) remained in effect, and increased the Acid Rain Program's allowance surrender ratio to two allowances for every one ton of SO₂ emissions. In accordance with the requirements of Appendix B, Table 1 reports: (a) the SO₂ Allowance Allocation for Units in the AEP Eastern System in 2014; (b) the AEP Eastern System 2014 SO₂ Emission Cap; (c) total actual tons of SO₂ emitted from Units within the AEP Eastern System in 2014; (d) the total actual tons of SO₂ emitted by Units within the AEP Eastern System in 2014 times the actual SO₂ allowance surrender ratio in effect in 2014; (e) the total excess SO₂ Allowances allocated to the AEP Eastern System in 2014; and (f) the number of super-compliant SO₂ Allowances retained by the AEP Eastern System Units in 2014.

Table 1

Description	SO₂ (tons)
AEP Eastern System 2014 SO ₂ Allowance Allocation:	550,965
AEP Eastern System 2014 SO ₂ Emission Cap:	340,000
AEP Eastern System 2014 SO ₂ Emissions:	265,545
AEP Eastern System 2014 SO ₂ Emissions X Allowance Surrender Ratio:	531,000
2014 Excess SO ₂ Allowances:	0
2014 Super-compliant SO ₂ Allowances:	148,910

2. NOx

During 2014 the AEP Eastern System Annual Tonnage Limitation for NOx was in effect. The total actual annual SO₂ and NOx emissions (in tons) and the actual annual average NOx emission rate (in lbs/mmBtu) for each stack in the AEP Eastern System during calendar year 2014, as reported to the Clean Air Markets Division, is included in Exhibit A attached to this report. Table 2 below provides a summary of the AEP System Annual NOx Tonnage Limitation, 2014 total actual annual NOx emissions for the AEP Eastern System, the number of Super-compliant NOx Allowances available for use from calendar year 2014, and the AEP Eastern System average NOx emission rate. Pursuant to Paragraph 80 of the Consent Decree, Super-compliant NOx Allowances can be retained by AEP and used for any lawful purpose.

Table 2

Description	NOx Allowances/ Emissions
AEP Eastern System 2014 Annual NOx Tonnage Limitation (tons)	85,000
2014 AEP Eastern System Actual Annual NOx Emissions (tons)	75,843
2014 Super-compliant NOx Allowances (tons)	9,157
2014 AEP Eastern System Average NOx Emission Rate (lbs/mmBtu)	0.161

During calendar years 2009 through 2015, the Consent Decree allows AEP to retain a portion of the difference between the AEP Eastern System Annual CAIR NOx Allowance Allocations and the AEP Eastern System Annual NOx Tonnage Limitation. Table 3 below provides a summary of the AEP Eastern System Annual CAIR NOx Allowance Allocations, the AEP Eastern System Annual NOx Tonnage Limitation, the difference between them, the calculation of Unrestricted NOx Allowances and the number of Unrestricted NOx Allowances Sold or Otherwise Used in 2014. During 2014, AEP sold blocks of CAIR annual NOx allowances that exceeded the number of Unrestricted NOx Allowances calculated for this year, reducing the balance of these allowances to zero. The details of these transactions are included in Exhibit A to this report.

Table 3

Description	NOx Emissions/ Allowances (tons)
AEP Eastern System Annual CAIR NOx Allowance Allocations	94,524
AEP Eastern System 2014 Annual NOx Tonnage Limitation	85,000
Difference	9,524
2014 Unrestricted NOx Allowances	4,000
2014 Unrestricted NOx Allowances Sold or Otherwise Used	>4,000
Balance of Unused Unrestricted NOx Allowances Potentially Subject to Surrender	0

During calendar years 2009 through 2015, the Consent Decree allows AEP to use Restricted NOx Allowances equivalent to the actual emissions from certain gas-fired power plants in the AEP System and New or Newly Permitted Units in the AEP System as defined in the Consent Decree. A total of 890 Restricted NOx Allowances were used to offset emissions from the new Stall and Turk Plants. A total of 614 Restricted NOx Allowances were used to offset emissions from the gas plants. Table 4 below provides a summary of the 2014 Restricted NOx Allowances, the actual emissions from the named gas-fired units and New or Newly Permitted Units, and the NOx Allowances not subject to surrender that were sold or otherwise used. A balance of 4,020 Restricted NOx Allowances Potentially Subject to Surrender will be carried over and added to the 15,449 Restricted NOx Allowances potentially subject to surrender from 2009 through 2013. Thus, at the conclusion of the CAIR program, AEP is responsible for surrendering a total of 19,469 Restricted NOx Allowances.

AEP has been accumulating CAIR NOx allowances in a specific CAMD general allowance account (Account No. 999900001310) in anticipation of its surrender obligation under the Consent Decree. That account currently holds 20,600 NOx allowances. During 2011, the Administrator removed all CAIR NOx Allowances allocated for use in calendar year 2012 and beyond, and all banked CAIR NOx Allowances, from the CAMD accounts as part of the actions taken in anticipation of replacing the CAIR program with a new regional transport program. We anticipate that EPA may take similar action based on the replacement of the CAIR program with the Cross-State Air Pollution Rule (CSAPR), which took effect on January 1, 2015. AEP anticipates that if a similar action to “sweep” CAIR allowance accounts is taken as a result of EPA’s decision to implement CSAPR, its obligations to surrender CAIR NOx Allowances Potentially Subject to Surrender will be satisfied, and no independent action by AEP will be required. Since the Consent Decree requirements specifically refer to CAIR NOx Allowances, and that program is not anticipated to be implemented after 2014, AEP will have no further NOx Allowance surrender obligations under the Consent Decree after 2014.

Supplemental information and calculations that support the summary information reported in Tables 3 and 4 can be found in Exhibit A to this report.

Table 4

Description	NOx Emissions/ Allowances (tons)
2014 Restricted NOx Allowances	5,524
2014 Actual Annual NOx Emissions from New or Newly Permitted Units	890
2014 Actual Annual NOx Emissions from Named Gas-Fired Units	614
2014 Actual MWh from Renewable Energy (wind or solar power) X 0.0002	0
Total 2014 Restricted NOx Allowances Not Subject to Surrender	1,504
Total 2014 Restricted NOx Allowances Not Subject to Surrender Sold or Otherwise Used	1,504
2014 Restricted NOx Allowances Potentially Subject to Surrender	4,020

B. Plant-Wide Annual Rolling Average Tonnage Limitation for SO₂ at Clinch River

During 2014, a Plant-wide Annual Rolling Average Tonnage Limitation of 21,700 tons of SO₂ was in effect for the Clinch River Plant. Actual annual average SO₂ emissions for Clinch River Plant by December 31, 2014, were 3,302 tons. A summary of the Plant-wide Rolling 12-month Average Tonnage calculated for each month of 2014 is included in Table 5 below.

Table 5

Clinch River Plant 2013 Rolling 12-month Average SO ₂ Emissions (tons)												
	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec
CR1-2	456	404	255	227	155	45	45	78	329	0	92	0
CR3	376	271	243	147	0	7	18	14	43	15	81	0
12-mo. Ave.	4543	4987	5211	5361	5263	5026	4710	4441	4466	4029	3752	3302

C. Plant-Wide Annual Tonnage Limitation for SO₂ at Kammer

During 2014, a Plant-wide Annual Tonnage Limitation of 35,000 tons of SO₂ was in effect at Kammer Plant. Actual total annual SO₂ emissions for Kammer Plant in 2014 were 14,781 tons.

D. Reporting Requirements for Excess SO₂ Allowances

As shown in Section A, above, there were no excess SO₂ Allowances subject to surrender in 2014.

E. Continuous Operation of Pollution Controls Required by Paragraphs 68, 69, 87, and 102

Our previous annual reports listed the existing FGDs and Other NO_x Controls that Continuously Operated as of the Effective Date of the Consent Decree, and additional FGDs, SCRs and ESPs that commenced Continuous Operation during calendar years 2008 through 2013, in accordance with the requirements of the Consent Decree. No additional FGDs commenced operation during calendar year 2014.

F. Installation of SO₂ and NO_x Controls

1. Controls Not Yet Under Construction

Table 6 lists the FGD/SCR projects for which construction has not yet commenced.

Table 6

Unit	Controls	Completion Date
Rockport U1	SCR	12-31-2017
Rockport U2	SCR	12-31-2019
First Rockport Unit	FGD	12-31-2025
Second Rockport Unit	FGD	12-31-2028

2. Controls Currently Under Construction

Dry Sorbent Injection (DSI) Systems, including reagent receiving and storage silos, reagent transport piping and reagent injection equipment, are currently under construction at Rockport Units 1&2 with operation planned to commence on or before April 16, 2015.

On March 12, 2014, AEP notified Plaintiffs of a potential force majeure condition involving the Rockport DSI systems. A vendor of certain components failed to

deliver the completed components in accordance with the contract, and AEP was forced to take steps to recover the uncompleted equipment and related drawings and materials. AEP took possession of this equipment later that week, was able to successfully mitigate the delay without impacting the schedule for completion of the DSI systems.

3. Completed Construction Projects

There were no projects completed during 2014.

4. Other Unit Obligations

Paragraphs 68 and 87 of the Consent Decree impose additional obligations upon certain units to retrofit, retire, or re-power by dates certain. Sporn Unit 5 was required to make this election and complete any required activities by December 31, 2013. AEP submitted notice to the regulatory authorities at PJM, the independent Market Monitor for PJM, and the Public Utilities Commission of Ohio during 2010 and 2011, received responses from those authorities, and officially deactivated this unit in February 2012.

AEP submitted notices to the regulatory authorities at PJM and the Independent Market Monitor for PJM during 2012, received responses from those authorities, and officially retired Conesville Unit 3 on December 31, 2012.

Muskingum River Units 1-4 are required to make this election and complete any necessary activities by December 31, 2015. In addition, AEP is required to retire an additional 600 MW of coal-fired capacity from among certain designated units by not later than December 31, 2018. AEP has submitted notices to the regulatory authorities at PJM and the Independent Market Monitor for PJM, and has received responses from those authorities, regarding the retirement of 600 MW of coal-fired capacity at the Sporn Plant in addition to the retirement of Muskingum River Units 1-4. AEP intends for the retirement of 600 MW of capacity at Sporn Plant to satisfy its obligations under Paragraphs 68 and 87 of the Consent Decree.

F. Installation and Operation of PM CEMS

The data required by Paragraph 107 and Appendix B of the Consent Decree for calendar year 2014 is provided for Cardinal Units 1 and 2 and Mitchell Unit 2 in Exhibit B to this report.

G. Other SO₂ Measures

Actual annual weighted average fuel sulfur content during calendar year 2014 is provided for each of the units listed in Paragraph 90 of the Consent Decree in Exhibit C to this report. Defendants have complied with all of the limitations applicable during the Reporting Period on an annual average basis at each unit.

H. 1-Hour Average NO_x Emission Rate and 30-Day Rolling Average Emission Rates for SO₂ and NO_x

Requirements were not in effect during the reporting period.

I. 30-Day Rolling Average Removal Efficiency for SO₂

Pursuant to Paragraph 87 of the Consent Decree, the existing FGDs on Conesville Units 5 and 6 were upgraded to achieve a 95% 30-Day Rolling Average Removal Efficiency beginning December 31, 2009. The method for determining compliance with the 30-Day Rolling Average Removal Efficiency for Conesville Units 5 and 6 is set forth in Appendix C to the Consent Decree per Paragraph 101.

Data from the inlet and outlet SO₂ monitors for each unit have been used to calculate the 30-Day Rolling Average Removal Efficiency in accordance the requirements and using the calculations set forth in Part II of Appendix C of the Consent Decree. The calculated 30-Day Rolling Average Removal Efficiency for Conesville Units 5 and 6 during calendar year 2014 is provided in Exhibit D to this Annual Report.

J. PM Emission Rates

Paragraphs 103 and 104 of the Consent Decree require AEP to achieve compliance with and maintain a PM emission rate of no more than 0.030 lbs/mmBtu at Cardinal Units 1 and 2 no later than December 31, 2009. AEP must determine compliance with the required PM emission rate through the performance of an annual reference method test for filterable particulate matter. AEP conducted reference method performance tests at Cardinal Unit 1 on October 15, 2014, and at Cardinal Unit 2 on October 16, 2014. The test results were submitted within 45 days of the performance of those tests, as required by the Consent Decree. The tests demonstrated compliance with the required PM emission rates. Subsequently, AEP discovered an error in the test report for Cardinal Unit 2, and the report was re-submitted on December 8, 2014. The error did not impact the unit's compliance with the 0.030 lb/mmBtu particulate emission rate.

Paragraphs 103 and 104 of the Consent Decree also require AEP to achieve and maintain a PM emission rate of no more than 0.030 lbs/mmBtu at Muskingum River Unit 5 by December 31, 2012. AEP must determine compliance with the required PM emission rate through the performance of an annual reference method test for filterable particulate matter. AEP conducted a reference method test on August 27, 2014. The test results were submitted within 45 days of the performance of those tests, as required by the Consent Decree. The test demonstrated compliance with the required PM emission rate.

K. Environmental Mitigation Projects

1. Mitigation Projects to be Conducted by the States

Project Dollars were paid during calendar year 2014 for various mitigation projects to be conducted by the States in accordance with Paragraph 127 of the Consent Decree, as amended in the Third Joint Modification of the Consent Decree, as set forth in Table 7 below.

Table 7

NSR CONSENT DECREE OBLIGATIONS AND PAYMENTS STATE MITIGATION PROJECTS			
ORGANIZATION	PROJECT NAME	PROJECT DOLLARS	DATE PAID
Commonwealth of Massachusetts	Wood and Coal Stove Change-Out Program	\$200,000.00	3/27/14
Commonwealth of Massachusetts	State-Owned Vehicle Retrofit Program	\$2,387.64	6/23/14
Commonwealth of Massachusetts	MassCleanDiesel: Clean Markets Program	\$11,164.85	9/30/14
Commonwealth of Massachusetts	Electric Vehicle Infrastructure	\$13,830.00	11/14/14
Commonwealth of Massachusetts	Electric Vehicle Infrastructure	\$49,412.50	11/14/14
Commonwealth of Massachusetts	Electric Vehicle Infrastructure	\$16,737.50	12/11/14
Commonwealth of Massachusetts	Electric Vehicle Infrastructure	\$30,104.50	1/27/15
Rhode Island	Promotion of Public Transportation on Air Quality Alert Days	\$50,000.00	7/23/14
Rhode Island	Green and Healthy Homes Initiative (CHHI)	\$314,000.00	11/14/14
State of Maryland	Tree Coupon Project and Public Charging Stations for Electric Vehicles	\$1,434,285.71	9/19/14

A summary of the remaining funds available is set forth in Table 8 below.

Table 8

PAYMENTS AND BALANCES FOR STATE MITIGATION PROJECTS		
ORGANIZATION	TOTAL FUNDING PAID TO DATE	AMOUNT REMAINING
Connecticut	\$2,514,285.71	\$0
Commonwealth of Massachusetts	\$2,585,566.16	\$1,514,433.84
Rhode Island	\$1,564,000.00	\$350,285.71
State of New York	\$8,594,000.00	\$1,620,285.71
State of Vermont	\$2,514,285.71	\$0
State of New Hampshire	\$1,914,286.00	\$0
State of New Jersey	\$4,914,285.71	\$0
State of Maryland	\$1,914,285.71	\$0
TOTAL FUNDING REMAINING:		\$3,485,005.26

2. Appendix A Projects

The majority of the land acquisition and restoration projects were completed by the end of 2012. Only two projects have continuing activities, and additional activities completed in 2014 are summarized below. All Project Dollars necessary for completion of these projects were paid at the end of 2012.

Edge of Appalachia Mitigation Project Parcel Details

The following parcels were purchased by The Nature Conservancy in 2014:

Name	Acres	Purchase Price	Appraisal/Survey Cost	Environmental Assessment	Closing Cost	Total Cost
Cole	45.21	\$126,588.00	\$1,500.00	\$195.00	\$503.50	\$128,786.50
Spires2	8.97	\$18,000.00	\$300.00	\$195.00	\$1,200.50	\$19,695.50
Fiedler	77.15	\$154,308.00	\$2,800.00	\$195.00	\$2,629.65	\$159,932.65
Groves	43.46	\$67,361.45	\$1,900.00	\$195.00	\$875.25	\$70,331.70
Bickel	29.93	\$47,888.00	\$900.00	\$195.00	\$353.50	\$49,336.50
Total	204.73	\$414,145.45	\$7,400.00	\$975.00	\$5,562.40	\$428,082.85

The locations of the projects and their proximity to other parcels already acquired by The Nature Conservancy are depicted on maps in Exhibit E.

Little Coal River, WV

AEP made a partial payment of \$500,000 of the \$1.45 million total contribution to West Virginia Department of Environmental Protection (WVDEP) in 2009 to facilitate construction of a portion of the structures. The final payment of \$950,000 was submitted to the WVDEP on May 23, 2012. On October 18, 2012 the WVDEP submitted a revised scope of work, which was subsequently submitted to EPA for approval on December 18, 2012. EPA approved the request on April 12, 2013. AEP and the WVDEP then executed revised contract documents on April 25, 2013. In-stream work continued in 2014 with substantial completion of in-stream structures. No additional construction is required, but minor seeding, maintenance and monitoring will occur in 2015.

Mobile Source Reduction Projects

A Mobile Source Emission Reduction Plan was submitted on April 30, 2010, and approved by EPA on October 25, 2010. The plan set forth projected purchases of hybrid vehicles to replace conventional vehicles in the AEP and Buckeye Power vehicle fleets, including hybrid bucket trucks and passenger vehicles for use in providing electric service to customers in the cooperatives that receive service from Buckeye Power and in the operating companies of the AEP Eastern System. On December 18, 2012, AEP submitted a revised plan to EPA seeking approval to fund the acquisition of hybrid and electric vehicles by state and local governments and non-profit organizations within the AEP Eastern System states. EPA did not approve the plan as submitted, and offered only to provide credit for funding representing the incremental cost of hybrid and electric vehicles. The burdens associated with administering such a program are too great to justify its implementation. EPA also objected to providing funding to local non-profit groups, whom AEP estimated would represent a significant portion of the total program.

AEP also proposed to implement volt-var improvements as part of its infrastructure replacement and upgrade program. EPA requested additional detail regarding this program but indicated its inclination to authorize such projects as partial satisfaction of the remaining Appendix A obligations. AEP would like to confer with EPA and the Citizen Plaintiffs to discuss options for these remaining funds prior to submitting a revised proposal.

Citizen Plaintiffs' Renewable Energy Project

AEP issued a request for proposal for a renewable energy project to fulfill its obligations under Subsection C of Paragraph 128 as modified by the Third Joint Modification of the Consent Decree on May 14, 2013. Following successful

negotiation of a long-term power purchase agreement that satisfies the requirements of that Subsection, Indiana Michigan Power Company submitted applications for approval from both the Michigan Public Service Commission and the Indiana Utility Regulatory Commission to enter into the purchase agreement. Those approvals were received during 2013, and construction of the project commenced in late 2013. Construction was completed in 2014, and deliveries of wind energy to Indiana Michigan Power Company commenced in late December 2014.

Citizen Plaintiffs' Mitigation Projects

During 2014, the following amounts were requested and paid for projects submitted by the Citizen Plaintiffs.

Date	Project Description	Amounts Funded
1/31/14	Installation of Solar Panels	\$200,000.00
5/16/14	ALAIN/Replacement of Wood Boilers	\$500,000.00
6/12/14	Solar PV Grants	\$400,000.00
7/9/14	Diesel Retrofits	\$500,000.00

All of the required funding for the Citizen Plaintiffs' Mitigation Projects has been paid in full.

III. Deviation Reports

No deviation reports were submitted during calendar year 2014. However, AEP has not completed the environmental mitigation projects set forth in its previously submitted plans, and has not reached agreement with the United States and the Citizen Plaintiffs on replacement projects for these activities.

IV. Submissions Pending Review

There are no submissions pending review.

V. Other Information Necessary to Determine Compliance

No other information is necessary to determine Defendants' compliance with the requirements of the Consent Decree during the Reporting Period.

VI. Certification:

This information was prepared either by me or under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my evaluation, or the direction and my inquiry of the person(s) who manage the system, or the person(s) directly responsible for gathering the information, I hereby certify under penalty of law that, to the best of my knowledge and belief, this information is true, accurate, and complete. I understand that there are significant penalties for submitting false, inaccurate, or incomplete information to the United States.



John M. McManus

Vice President, Environmental Services

American Electric Power Service Corporation

Exhibit A

2014 Emission Allowance Calculation Support

2014 Summary

	NOx (tons)
AEP Eastern System 2014 NOx Annual CAIR Allowances:	94,524
AEP Eastern System 2014 NOx Emission Cap:	85,000
2014 Unrestricted NOx Allowances:	4,000
2014 Unadjusted Restricted NOx Allowances:	5,524
2014 New or Newly Permitted Unit Adjustment (Stall & Turk Plants):	890
2014 Ceredo, Waterford, Darby, Lawrenceburg, and Dresden Adjustment:	614
2014 Renewables (wind or solar) Adjustment:	0
2014 Adjusted Restricted NOx Allowances Potentially Subject to Surrender:	4,020
2014 Supercompliant NOx Allowances:	9,157
2014 AEP Eastern System NOx Emissions:	75,843
2014 AEP Eastern System NOx Average Emission Rate (lb/mmBTU):	0.161

	SO ₂ (tons)
AEP Eastern System 2014 SO ₂ Allowance Allocation:	550,965
AEP Eastern System 2014 SO ₂ Emission Cap:	340,000
AEP Eastern System 2014 SO ₂ Emission Cap X Allowance Surrender Ratio:	680,000
AEP Eastern System 2014 SO ₂ Emissions:	265,545
AEP Eastern System 2014 SO ₂ Emissions X Allowance Surrender Ratio:	531,090
2014 Excess SO ₂ Allowances:	0
2014 Supercompliant SO ₂ Allowances:	148,910

Appendix B Reporting Requirements:

A. Beginning on March 31, 2010, for the Eastern System-Wide Annual Tonnage Limitations for NOx, and March 31, 2011, for the Eastern System-Wide Annual Tonnage Limitations for SO₂, and annually thereafter, Defendants shall report the following information: (a) the total actual annual tons of the pollutant emitted from each Unit (or for Units vented to a common stack, from each combined stack) within the AEP Eastern System, as defined in Paragraph 7, during the prior calendar year; (b) the total actual annual tons of the pollutant emitted from the AEP Eastern System during the prior calendar year; (c) the difference, if any between the applicable Eastern System-Wide Annual Tonnage Limitation for the pollutant in that calendar year and the amount reported in subparagraph (b); and (d) the annual average emission rate, expressed as a lb/mmBTU for NOx, for each Unit within the AEP Eastern System and for the entire AEP Eastern System during the prior calendar year. Data reported pursuant to this subsection shall be based upon the CEMS data submitted to the Clean Air Markets Division.

2014 Responses:

- (a) See table on worksheet labeled "AEP Eastern System Emissions" for SO₂ and NOx emissions.
- (b) 75,843 tons of NOx and 265,545 tons of SO₂.
- (c) 9,157 tons of NOx less than the Emission cap (Super Compliant NOx Allowances) and 148,910 tons of SO₂ less than the emission cap (taking into account the 2:1 surrender ratio) (Super Compliant SO₂ Allowances)
- (d) See table on worksheet labeled "AEP Eastern System Emissions" Assume that for common stacks, it is appropriate to simply list the stack emission rate. Further, the NOx rate for the entire AEP Eastern System was calculated as a heat input weighted average.

B. Beginning on March 31, 2011, and continuing annually thereafter, Defendants shall report: (a) the actual tons of SO₂ emitted from all Units at the Clinch River plant on an annual rolling average basis as defined in Paragraphs 47 and 88 for the prior calendar year; and (b) the applicable Plant-Wide Annual Rolling Average Tonnage Limitation for SO₂ at the Clinch River plant for the prior calendar year. For calendar years other than 2010 and 2015, Defendants shall also report the 12-month rolling average emissions for each month. For calendar years other than 2010 and 2015, Defendants shall also report the 12-month rolling average emissions for each month.

2014 Responses:

- (a) Clinch River Plant-Wide SO₂ emissions for the period January 1, 2014 through December 31, 2014 are 3,302 tons.
- (b) The applicable Clinch River Plant-Wide Annual Rolling Average Tonnage Limitation for SO₂ for the period January 1, 2014 through December 31, 2014 is 21,700 tons. See spreadsheet tab titled "2014 Clinch Rolling 12Mth SO₂" for month by month listing of 12 mth rolling averages.

C. Beginning on March 31, 2011, and continuing annually thereafter, Defendants shall report: (a) the actual tons of SO₂ emitted from all Units at the Kammer plant as specified in Paragraph 48 for the prior calendar year; and (b) the Plant-Wide Tonnage Limitation for SO₂ at the Kammer plant for that calendar year.

2014 Responses:

- (a) Kammer Plant-Wide SO₂ emissions for the period January 1, 2014 through December 31, 2014 are 14,781 tons.
- (b) The applicable Kammer Plant-Wide Annual Tonnage Limitation for SO₂ for the period January 1, 2014 through December 31, 2014 is 35,000 tons.

D.1. Beginning on March 31, 2010, and continuing annually through March 31, 2016, Defendants shall report the number of Unrestricted Excess NOx Allowances available each year between 2009 through 2015, and how or whether such allowances were used so that the Defendants account for each Unrestricted Excess NOx Allowance for each year during 2009 through 2015. No later than March 31, 2016, Defendants shall report: (a) the cumulative number of unused Unrestricted Excess NOx Allowances subject to surrender pursuant to Paragraph 75 and calculated pursuant to Paragraph 74, and (b) the total number of unused Unrestricted Excess NOx Allowances that they surrendered.

2014 Responses:

- D.1. 4,000 Tons of unrestricted excess NOx allowances available in 2014. 4,000 allowances sold to Accounts #999900000000 (Associated Electric Cooperative), and #001363FACTTY (Cane Run) in accordance with details shown on "Sale of Unrestricted NOx Allow" sheet of this spreadsheet.
- (a) N/A until March 31, 2016
- (b) N/A until March 31, 2016

D.2.a. Beginning on March 31, 2010, and continuing annually through March 31, 2016, Defendants shall report (a) the number of Restricted Excess NOx Allowances available each year between 2009 through 2015; (b) the actual emissions from any New and Newly Permitted Unit during each year; (c) the actual NOx emissions from the five natural gas plants listed in Paragraph 76 during each year; (d) the amount, if any, of Restricted Excess NOx Allowances that are not subject to surrender each year because of Defendants' investment in renewable energy as defined in Paragraph 77 and the data supporting Defendants' calculation; and

(e) the difference between the cumulative total of Restricted Excess NOx Allowances available from each year and any prior year and the actual emissions reported under (b) and (c), above, for that year and any Restricted Excess NOx Allowances not subject to surrender reported under (d), above. No later than March 31, 2016, Defendants shall report: (a) the cumulative number of unused Restricted Excess NOx Allowances subject to surrender pursuant to Paragraph 76 and 77, and (b) the total number of unused Restricted Excess NOx Allowances that they surrendered.

2014 Responses:

- (a) 5,524 Tons of Restricted excess NOx Allowances available in 2014.
- (b) 890 Tons of emissions from New and Newly Permitted Units during 2014.
- (c) 614 Tons of actual NOx emissions from the five listed natural gas plants during 2014.
- (d) 0 Tons of Restricted Excess NOx Allowances not subject to surrender because of investment in renewable energy. AEP has chosen not to take credit for Nox allowances calculated in accordance with paragraph 77 of the consent agreement.
- (e) 4,020 Tons of Restricted Excess NOx Allowances after subtracting (b), (c) and (d).
- (a) N/A until March 31, 2016
- (b) N/A until March 31, 2016

D.2.b. No later than March 31, 2017, and continuing annually thereafter, Defendants shall report: (a) the number of Restricted Excess NOx Allowances available in the prior year; (b) the actual emissions from any New and Newly Permitted Unit during such year; (c) the actual emissions from the five natural gas plants listed in Paragraph 76 during such year; (d) the amount, if any, of Restricted Excess NOx Allowances that are not subject to surrender for such year because of Defendants' investment in renewable energy as defined in Paragraph 77 and the data supporting Defendants' calculation; (e) the number of Restricted Excess NOx Allowances subject to surrender for such year calculated pursuant to Paragraphs 76 and 77; and (f) the total number of unused Restricted Excess NOx Allowances that they surrendered for such year.

2014 Responses:

- (a) N/A until March 31, 2017
- (b) N/A until March 31, 2017
- (c) N/A until March 31, 2017
- (d) N/A until March 31, 2017
- (e) N/A until March 31, 2017
- (f) N/A until March 31, 2017

E. Beginning on March 31, 2011, and continuing annually thereafter, Defendants shall report: (a) the number of Excess SO₂ Allowances subject to surrender calculated pursuant to Paragraph 93, and (b) the total number of Excess SO₂ Allowances that they surrendered.

2014 Responses:

- (a) Because the surrender ratio (2) for 2014 times the annual Eastern System-Wide Tonnage Limitation for SO₂ (340,000 tons) for 2014 is greater than the annual SO₂ allowance allocation for units within the AEP Eastern System for 2014, the number of excess SO₂ allowances subject to surrender in 2014 is 0.
- (b) Not applicable since there were no excess SO₂ allowances subject to surrender.

Clinch Rolling 12Mth SO2

VA	Clinch River	3775	CS012
VA	Clinch River	3775	3

Rolling 12-mth Avg:

2014 NOx CAIR Allocations

Plant	Unit	Total Annual NOx CAIR Allocation (not counting NU set aside and CSP) (Facility)
Amos	Unit 1	12468
Amos	Unit 2	
Amos	Unit 3	
Big Sandy	Unit 1	5282
Big Sandy	Unit 2	
Cardinal	Unit 1	7459
Cardinal	Unit 2	
Cardinal	Unit 3	
Clinch River	Unit 1	1150
Clinch River	Unit 2	
Clinch River	Unit 3	
Conesville	Unit 1	8055
Conesville	Unit 2	
Conesville	Unit 3	
Conesville	Unit 4	
Conesville	Unit 5	
Conesville	Unit 6	
Gavin	Unit 1	13233
Gavin	Unit 2	
Glen Lyn	Unit 5	237
Glen Lyn	Unit 6	
Kammer	Unit 1	2786
Kammer	Unit 2	
Kammer	Unit 3	
Kanawha River	Unit 1	1879
Kanawha River	Unit 2	
Mitchell	Unit 1	6540
Mitchell	Unit 2	
Mountaineer	Unit 1	6214
Muskingum River	Unit 1	5685
Muskingum River	Unit 2	
Muskingum River	Unit 3	
Muskingum River	Unit 4	
Muskingum River	Unit 5	
Picway	Unit 9	337
Rockport	Unit 1	14249
Rockport	Unit 2	
Sporn	Unit 1	4428
Sporn	Unit 2	
Sporn	Unit 3	
Sporn	Unit 4	
Sporn	Unit 5	
Tanners Creek	Unit 1	4522
Tanners Creek	Unit 2	
Tanners Creek	Unit 3	
Tanners Creek	Unit 4	
		94524

2014 Annual NOx Cap under NSR CO: 85000

2014 Unrestricted NOx Allowances: $0.42 \times (94524 - 85000) = 4000.08 = 4000$
 2014 Unadjusted Restricted NOx Allowances: $(94524 - 85000) - 4000 = 5524$

2014 SO2 Allowance Allocations

Plant	Unit				Total Annual SO2 Allocations (Facility)
Amos	Unit 1			22630	
Amos	Unit 2			25944	
Amos	Unit 3			41584	90158
Big Sandy	Unit 1			6441	
Big Sandy	Unit 2			18584	25025
Cardinal	Unit 1			14803	
Cardinal	Unit 2			16554	
Cardinal	Unit 3			16747	48104
Clinch River	Unit 1			5302	
Clinch River	Unit 2			6123	
Clinch River	Unit 3			5661	17086
Conesville	Unit 1			1817	
Conesville	Unit 2			2114	
Conesville	Unit 3			2373	
Conesville	Unit 4			21067	
Conesville	Unit 5			7179	
Conesville	Unit 6			7951	42501
Gavin	Unit 1			34158	
Gavin	Unit 2			34797	68955
Glen Lyn	Unit 5			1602	
Glen Lyn	Unit 6			5251	6853
Kammer	Unit 1			8095	
Kammer	Unit 2			8404	
Kammer	Unit 3			7512	24011
Kanawha River	Unit 1			3981	
Kanawha River	Unit 2			3545	7526
Mitchell	Unit 1			18995	
Mitchell	Unit 2			19656	38651
Mountaineer	Unit 1			35285	35285
Muskingum River	Unit 1			6425	
Muskingum River	Unit 2			6119	
Muskingum River	Unit 3			6027	
Muskingum River	Unit 4			5088	
Muskingum River	Unit 5			17479	41138
Picway	Unit 9			2131	2131
Rockport	Unit 1			33061	
Rockport	Unit 2			33061	66122
Sporn	Unit 1			2434	
Sporn	Unit 2			2048	
Sporn	Unit 3			2932	
Sporn	Unit 4			2302	
Sporn	Unit 5			10519	20235
Tanners Creek	Unit 1			2037	
Tanners Creek	Unit 2			2138	
Tanners Creek	Unit 3			2287	
Tanners Creek	Unit 4			10722	17184

550965

Gas and New Unit NOx Emissions

State	Facility Name	Facility ID (ORIS Unit ID)	Year	Operating Time	# of Months Reported	Program(s)	SO2 (tons)	Avg. NOx Rate (lb/MMBtu)	NOx (tons)	CO2 (tons)	Heat Input (MMBtu)
IN	Lawrenceburg Energy Facility	55502	1	2014	3965.96	12 ARP, CAIRNOX, CAIROS, CAIRSO2, TRNO)	1.966	0.0353	72.168	389442.421	6553088.302
IN	Lawrenceburg Energy Facility	55502	2	2014	4095.97	12 ARP, CAIRNOX, CAIROS, CAIRSO2, TRNO)	1.906	0.0419	73.637	377624.787	6354208.181
IN	Lawrenceburg Energy Facility	55502	3	2014	3737.09	12 ARP, CAIRNOX, CAIROS, CAIRSO2, TRNO)	1.848	0.0282	55.04	366000.387	6158691.819
IN	Lawrenceburg Energy Facility	55502	4	2014	3472.59	12 ARP, CAIRNOX, CAIROS, CAIRSO2, TRNO)	1.674	0.0383	63.464	331635.255	5580343.276
OH	Darby Electric Generating Station	55247 CT1		2014	39.9	12 ARP, CAIRNOX, CAIROS, CAIRSO2, TRNO)	0.01		2.03	1901.4	32226.9
OH	Darby Electric Generating Station	55247 CT2		2014	90.08	12 ARP, CAIRNOX, CAIROS, CAIRSO2, TRNO)	0.026		4.904	5096.3	86387.2
OH	Darby Electric Generating Station	55247 CT3		2014	61.14	12 ARP, CAIRNOX, CAIROS, CAIRSO2, TRNO)	0.017		3.829	3236.9	54876.1
OH	Darby Electric Generating Station	55247 CT4		2014	53.95	12 ARP, CAIRNOX, CAIROS, CAIRSO2, TRNO)	0.013		2.448	2593.3	43954.5
OH	Darby Electric Generating Station	55247 CT5		2014	121.71	12 ARP, CAIRNOX, CAIROS, CAIRSO2, TRNO)	0.033		5.449	6565.9	111292.5
OH	Darby Electric Generating Station	55247 CT6		2014	62.94	12 ARP, CAIRNOX, CAIROS, CAIRSO2, TRNO)	0.018		3.12	3480	58984.7
OH	Waterford Plant	55503	1	2014	6076.63	12 ARP, CAIRNOX, CAIROS, CAIRSO2, TRNO)	3.006	0.0119	49.618	595367.901	1.00E+07
OH	Waterford Plant	55503	2	2014	6044.92	12 ARP, CAIRNOX, CAIROS, CAIRSO2, TRNO)	3.001	0.0124	52.767	594501.375	1.00E+07
OH	Waterford Plant	55503	3	2014	5435.43	12 ARP, CAIRNOX, CAIROS, CAIRSO2, TRNO)	2.712	0.0126	45.722	537212.192	9039663.169
OH	Dresden Energy Facility	55350 1A		2014	8140.88	12 ARP, CAIRNOX, CAIROS, CAIRSO2, TRNO)	3.883	0.014	82.447	769199.542	1.29E+07
OH	Dresden Energy Facility	55350 1B		2014	8060.49	12 ARP, CAIRNOX, CAIROS, CAIRSO2, TRNO)	3.854	0.0122	72.289	763485.855	1.28E+07
WV	Ceredo Generating Station	55276	1	2014	363.47	12 ARP, CAIRNOX, CAIROS, CAIRSO2, TRNO)	0.11		4.521	21351.3	361904.4
WV	Ceredo Generating Station	55276	2	2014	354.85	12 ARP, CAIRNOX, CAIROS, CAIRSO2, TRNO)	0.108		4.436	20945.4	354998.2
WV	Ceredo Generating Station	55276	3	2014	341.29	12 ARP, CAIRNOX, CAIROS, CAIRSO2, TRNO)	0.106		4.385	20692.2	350752.1
WV	Ceredo Generating Station	55276	4	2014	297.75	12 ARP, CAIRNOX, CAIROS, CAIRSO2, TRNO)	0.091		3.726	17594.4	298211.2
WV	Ceredo Generating Station	55276	5	2014	303.37	12 ARP, CAIRNOX, CAIROS, CAIRSO2, TRNO)	0.095		3.878	18309.1	310339.3
WV	Ceredo Generating Station	55276	6	2014	291.17	12 ARP, CAIRNOX, CAIROS, CAIRSO2, TRNO)	0.09		3.711	17516.4	296910.6

Total: 613.589
Round to 614

State	Facility Name	Facility ID (ORIS Unit ID)	Year	Associated Stacl	Operating Time	# of Months Reported	Avg. NOx Rate	NOx (tons)	Heat Input (MMBtu)
LA	Arsenal Hill Power Plant (Stall)	1416 CTG-6A	2014		7735.76	12	0.0109	63.891	1.18E+07
LA	Arsenal Hill Power Plant (Stall)	1416 CTG-6B	2014		7292.11	12	0.0106	57.86	1.09E+07
AR	John W. Turk Jr. Power Plant	56564 SN-01	2014		7892.25	12	0.0436	767.932	3.94E+07
Total NOx Emissions (tons):								889.683	
Rounded:								890	

Gas and New Unit NOx Emissions

MBtu)

AEP Eastern System NOx and SO₂ Emissions

State	Facility Name	Stack/Unit/Pipe	Year	SO2 (tons)	Avg. NOx Rate	NOx (tons)	CO2 (tons)	Heat Input (MMBtu)
IN	Rockport	CS012	2014	54978.644	0.2351	19725.948	1.73E+07	1.65E+08
IN	Tanners Creek	CS013	2014	5977.868	0.3391	1851.77	1152894.698	1.10E+07
IN	Tanners Creek	U4	2014	12113.05	0.2282	1848.804	1689047.633	1.61E+07
KY	Big Sandy	CS012	2014	32833.897	0.2333	4127.154	4328511.225	4.13E+07
OH	Cardinal		1	2014	0.0801	1014.151	2798132.751	2.69E+07
OH	Cardinal		2	2014	0.0845	1583.212	4015925.986	3.85E+07
OH	Cardinal		3	2014	0.0801	1452.959	3908732.601	3.74E+07
OH	Conesville		3	2014				
OH	Conesville		4	2014	0.0839	1612.321	4331431.062	4.15E+07
OH	Conesville	CS056		2014	0.4575	9969.229	4609595.059	4.41E+07
OH	Gen J M Gavin		1	2014	0.1477	5014.139	7382144.448	7.05E+07
OH	Gen J M Gavin		2	2014	0.1125	5013.836	9640094.248	9.25E+07
OH	Muskingum River		5	2014	0.0947	1123.676	2535993.96	2.42E+07
OH	Muskingum River	CS014		2014	0.4206	1548.507	735331.301	7011156.145
OH	Picway		9	2014				
VA	Clinch River		3	2014	0.2101	306.095	280784.36	2677225.229
VA	Clinch River	CS012		2014	0.2395	692.644	508049.748	4844111.94
VA	Glen Lyn		51	2014	0.3683	32.105	16883.497	160997.274
VA	Glen Lyn		52	2014	0.4635	43.412	18690.179	178206.428
VA	Glen Lyn		6	2014	0.3654	145.91	73502.947	700827.44
WV	John E Amos		1	2014	0.0656	1431.647	4960231.589	4.75E+07
WV	John E Amos		2	2014	0.0699	1544.746	4860900.549	4.66E+07
WV	John E Amos		3	2014	0.1125	1752.962	3615238.282	3.48E+07
WV	Kammer	CS013		2014	0.5592	2848.184	1053267.666	1.00E+07
WV	Kanawha River	CS012		2014	0.2811	2521.839	1661531.337	1.58E+07
WV	Mitchell (WV)		1	2014	0.0852	1324.14	3564810.708	3.41E+07
WV	Mitchell (WV)		2	2014	0.0886	2066.826	5049329.051	4.84E+07
WV	Mountaineer (1301)		1	2014	0.0753	3014.049	8665947.647	8.29E+07
WV	Phil Sporn		51	2014				
WV	Phil Sporn	CS014		2014	0.2891	2233.086	1468082.144	1.40E+07

Total NOx (tons):	75,843
AEP Eastern System Heat Input Weghted NOx Avg (lb/mmBTU):	0.161
Total SO2 (tons)	265,545
Clinch River 2014 SO2 Emissions (tons):	3,302
Kammer 2014 SO2 Emissions (tons):	14,781

Renewables Summary

BEGINNING WITH 2013 CALENDAR YEAR REPORT, DECISION WAS MADE NOT TO TAKE CREDIT FOR RENEWABLES IN THE NSR CONSENT DECREE ANNUAL REPORT

Sale of Unrestricted and Renewables NOx Allowances

Program	Transaction ID	Transaction Total	Transaction Type	Facility Name (Transferor)	Account Number (Transferor)	Account Name (Transferor)	Facility ID (Transferor, State (Transferor))	Facility Name (Transferee)	Account Number (Transferee, Account Number (Transferee))	Facility ID (Transferee, State (Transferee))	Transaction Date	Allowance Vintage Year	Serial Number Start	Serial Number End	Block Total	EPA Region	Source Category	Owner (Transferor)	Representative (Transferor)	EPA Region	Source Category	Owner (Transferee)	Representative (Transferee)
CAIRNOX	30052	2000	Private Transfer	Mountaineer (1301)	006264	FACILITY	6264 WV	Mountaineer (1301)	1.00E+12	Associated Electric Cooperative	4/10/2014	2014	376014	378013	2000	3	Appalachian	John M McManus (1)		3	Appalachian	John M McManus (1)	Associated Brent A Ro
CAIRNOX	30261	2000	Private Transfer	John E Amos	003935	FACILITY	3935 WV	Cane Run	001363	FACILITY	4/16/2014	2014	341898	343897	2000	3	Appalachian	John M McManus (1)		4	Appalachian	John M McManus (1)	LGE and K Steve T Nc

Sale of Unrestricted and Renewables NOx Allowances

ative (Transferee)
ss (606546)
land (604651)

Exhibit B

2014 PM CEMS Emission Data

3-Hour Rolling Average

Unit 2 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Mitchell Power Plant
 Generated: 03/10/2015 14:54 Location: Moundsville, WV
 Tag Name: U2_PM_3H_LbPerMBtu_1H

Red = Invalid Data, based solely on an unsuccessful RRA conducted on 11/13/13 and again on 3/19/14. All daily calibrations passed. An RCA was completed on 11/12/14 and a combined correlation curve took affect on 11/13/14.
 Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
01/01/2014	0.003	0.003	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.002	0.002	0.003	0.004	0.004	0.004	0.004	0.004	0.006	0.007	0.007	0.006	0.005	
01/02/2014	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.026	0.027	0.027	0.004	0.004	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	
01/03/2014	0.001	0.001	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.013	0.013	0.013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
01/04/2014	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	
01/05/2014	0.002	0.001	0.001	0.001	0.002	0.002	0.002	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	
01/06/2014	0.003	0.003	0.002	0.001	0.000	0.000	0.000	0.000	0.001	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
01/07/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
01/08/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.002	0.001	0.001	0.001	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
01/09/2014	0.004	0.003	0.004	0.003	0.004	0.003	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.006	0.005	0.005	0.004	
01/10/2014	0.004	0.003	0.003	0.004	0.004	0.003	0.003	0.004	0.005	0.005	0.005	0.004	0.004	0.004	0.005	0.005	0.005	0.006	0.005	0.005	0.005	0.005	0.004	0.003	
01/11/2014	0.002	0.002	0.002	0.001	0.006	Invalid Data																			
01/12/2014	Invalid Data																								
01/13/2014	Invalid Data																								
01/14/2014	Invalid Data																		0.000	0.000	0.000	0.000	0.000	0.000	
01/15/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	
01/16/2014	0.001	0.001	0.002	0.002	0.002	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.006	0.008	0.010	0.010	0.009	0.008	0.006	
01/17/2014	0.004	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.001	0.001	0.002	0.003	0.004	0.004	0.004	0.003	
01/18/2014	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
01/19/2014	0.001	0.000	0.000	0.001	0.001	0.001	0.001	0.001	Invalid Data											0.002	0.002	0.002	0.002	0.002	
01/20/2014	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.001	
01/21/2014	Invalid Data					0.000	0.000	0.001	0.001	0.001	0.002	0.002	0.002	0.002	Invalid Data										
01/22/2014	Invalid Data																								
01/23/2014	Invalid Data						0.000	Invalid Data					0.000	0.000	Invalid Data										
01/24/2014	Invalid Data		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	Invalid Data				0.001	0.001	0.001	0.001	0.001	0.001	0.001
01/25/2014	0.001	0.001	0.001	0.001	0.002	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.004	0.004	0.004	0.004	0.003	
01/26/2014	0.003	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	Invalid Data				0.003		
01/27/2014	0.002	0.001	0.001	0.001	0.002	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.002	0.002	0.001	
01/28/2014	0.001	Invalid Data	Unit o/s																						
01/29/2014	Unit o/s																								
01/30/2014	Unit o/s																								
01/31/2014	Unit o/s																								

3-Hour Rolling Average

Unit 2 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Mitchell Power Plant
 Generated: 03/10/2015 14:54 Location: Moundsville, WV
 Tag Name: U2_PM_3H_LbPerMBtu_1H

Red = Invalid Data, based solely on an unsuccessful RRA conducted on 11/13/13 and again on 3/19/14. All daily calibrations passed. An RCA was completed on 11/12/14 and a combined correlation curve took affect on 11/13/14.
 Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
02/01/2014	Unit o/s																							
02/02/2014	Unit o/s																							
02/03/2014	Invalid Data																							
02/04/2014	Invalid Data																							
02/05/2014	Invalid Data																							
02/06/2014	Invalid Data												0.002	0.002	0.003	0.003	0.002	0.002	0.003	0.003	0.003	0.004	0.004	0.003
02/07/2014	0.003	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003
02/08/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.002	0.002	0.002	0.002
02/09/2014	0.002	0.002	0.002	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
02/10/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.002	0.001	0.001	0.001	0.001
02/11/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000
02/12/2014	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.003	0.004	0.003	0.003
02/13/2014	0.002	0.002	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.001	0.000	0.000	0.000	0.001	0.001	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.003	0.003
02/14/2014	0.003	0.002	0.001	0.001	0.001	0.001	0.002	0.003	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.007	0.007	0.007	0.005	0.006	0.008	0.009	0.007	0.005
02/15/2014	0.003	0.002	0.001	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
02/16/2014	0.001	0.000	0.000	0.000	0.000	0.001	0.002	0.003	0.004	0.003	0.003	0.003	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
02/17/2014	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.004	0.004	0.003	0.003	0.003	0.003	0.003
02/18/2014	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.007	0.007	0.006	0.005	0.006
02/19/2014	0.006	0.006	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.005	0.005	0.006	0.005	0.006	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004
02/20/2014	0.004	0.004	0.004	0.003	0.002	0.002	0.002	0.002	0.001	0.000	0.000	0.001	0.001	0.001	0.002	0.003	0.005	0.006	0.006	0.005	0.005	0.005	0.005	0.004
02/21/2014	0.003	0.002	0.001	0.001	0.000	0.000	0.001	0.002	0.004	0.004	0.003	0.003	0.003	0.004	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004
02/22/2014	0.003	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.002
02/23/2014	0.002	0.002	0.001	0.000	0.000	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.002	0.001	0.001	0.001	0.003	0.005	0.006	0.005	0.004
02/24/2014	0.002	0.001	0.001	0.001	0.001	0.002	0.003	0.003	0.004	0.004	0.005	0.006	0.005	0.005	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
02/25/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004
02/26/2014	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.005	0.005	0.004	0.004
02/27/2014	0.004	0.003	0.002	0.000	0.000	0.000	0.000	0.001	0.002	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.002
02/28/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004

3-Hour Rolling Average

Unit 2 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Mitchell Power Plant
 Generated: 03/10/2015 14:54 Location: Moundsville, WV
 Tag Name: U2_PM_3H_LbPerMBtu_1H

Red = Invalid Data, based solely on an unsuccessful RRA conducted on 11/13/13 and again on 3/19/14. All daily calibrations passed. An RCA was completed on 11/12/14 and a combined correlation curve took affect on 11/13/14.
 Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
03/01/2014	0.004	0.004	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
03/02/2014	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.004	0.004	0.003	0.002
03/03/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003	0.003	0.003	0.003
03/04/2014	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.003	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.006	0.007	0.008	0.006	0.005	0.004	0.004	0.003	0.002
03/05/2014	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004
03/06/2014	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.002	Invalid Data			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
03/07/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.001
03/08/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.001	0.002	0.003	0.004	0.007	0.010	0.012	0.014	0.014	0.014	0.013	0.012	0.010	0.007
03/09/2014	0.004	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.004	0.007	0.009	0.008	0.008	0.008	0.007	0.006	0.005	0.006	0.007	0.008	0.007	0.005	0.002
03/10/2014	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.006	0.009	0.010	0.010	0.011	0.012	0.012	0.013	0.012	0.010	0.010	0.009	0.010	0.009	0.007	0.005
03/11/2014	0.003	0.002	0.001	0.000	0.000	0.000	0.000	0.002	0.004	0.006	0.006	0.008	0.011	0.015	0.019	0.020	0.017	0.012	0.009	0.009	0.008	0.006	0.003	0.002
03/12/2014	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.004	0.006	0.006	0.007	0.008	0.010	0.010	0.009	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005
03/13/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004
03/14/2014	0.003	0.002	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.005	0.007	0.008	0.008	0.009	0.009	0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.005	0.003
03/15/2014	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.001
03/16/2014	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.002	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.002	0.001
03/17/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.003	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.006	0.006	0.007	0.007	0.007	0.006	0.006	0.005
03/18/2014	0.004	0.002	0.001	0.000	0.000	0.000	0.000	0.001	0.002	0.004	0.005	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.009	0.007	0.006
03/19/2014	0.004	0.002	0.001	0.000	0.000	0.000	0.001	0.003	0.005	0.008	0.009	0.009	0.009	0.010	0.011	0.011	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
03/20/2014	0.009	0.007	0.004	0.002	0.000	0.000	0.001	0.004	0.006	0.007	0.007	0.006	0.006	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.004
03/21/2014	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.004	0.005	0.005	0.005	0.005	0.006	0.005	0.005	0.004	0.005	0.006	0.007	0.007	0.007	0.005
03/22/2014	0.004	0.002	0.001	0.001	0.001	0.001	0.002	0.004	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.006	0.006	0.005	0.005	0.006	0.006	0.006	0.005	0.004
03/23/2014	0.003	0.001	0.001	0.000	0.000	0.000	0.001	0.003	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.005	0.004	0.004
03/24/2014	0.003	0.001	0.000	0.000	0.000	0.000	0.001	0.002	0.003	0.003	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.005
03/25/2014	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005
03/26/2014	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004
03/27/2014	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.005	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.006	0.005
03/28/2014	0.005	0.006	0.007	0.007	0.006	0.006	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.008	0.008	0.007	0.007	0.007	0.007	0.007	0.006	0.005	0.005
03/29/2014	0.004	0.003	0.001	0.001	0.000	0.000	0.000	0.001	0.003	0.004	0.005	0.005	0.005	0.006	0.006	0.006	0.005	0.004	0.004	0.004	0.004	0.003	0.002	0.001
03/30/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.003	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.003	0.002	0.001
03/31/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.004	0.002

3-Hour Rolling Average

Unit 2 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Mitchell Power Plant
 Generated: 03/10/2015 14:54 Location: Moundsville, WV
 Tag Name: U2_PM_3H_LbPerMBtu_1H

Red = Invalid Data, based solely on an unsuccessful RRA conducted on 11/13/13 and again on 3/19/14. All daily calibrations passed. An RCA was completed on 11/12/14 and a combined correlation curve took affect on 11/13/14.

Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
04/01/2014	0.001	0.000	0.000	0.000	0.000	0.002	0.004	0.006	0.006	0.006	0.006	0.006	0.007	0.008	0.009	0.011	0.011	0.011	0.010	0.011	0.011	0.011	0.010	0.007
04/02/2014	0.004	0.001	0.000	0.000	0.000	0.000	0.000	0.002	0.004	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.006	0.007	0.008	0.008	0.008	0.007	0.005
04/03/2014	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.002	0.004	0.006	0.006	0.006	0.007	0.007	0.008	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
04/04/2014	0.005	0.005	0.005	0.004	0.004	0.005	0.007	0.009	0.010	0.010	0.010	0.010	0.009	0.009	0.008	0.008	0.009	0.009	0.009	0.009	0.008	0.007	0.007	0.006
04/05/2014	0.004	0.003	0.002	0.001	0.001	0.001	0.001	0.003	0.005	0.007	0.007	0.007	0.008	0.008	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.006	0.005	0.002
04/06/2014	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.004	0.007	0.008	0.008	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.010	0.009	0.007	0.004
04/07/2014	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.004	0.007	0.011	0.012	0.011	0.010	0.009	0.009	0.009	0.009	0.009	0.008	0.008	0.008	0.009	0.009	0.008
04/08/2014	0.006	0.003	0.001	0.001	0.001	0.001	0.001	0.002	0.004	0.007	0.007	0.007	0.007	0.007	0.008	0.007	0.007	0.007	0.007	0.008	0.009	0.009	0.008	0.006
04/09/2014	0.005	0.003	0.001	0.001	0.003	0.003	0.003	0.003	0.005	0.007	0.008	0.008	0.009	0.010	0.010	0.010	0.009	0.009	0.010	0.011	0.012	0.011	0.009	0.007
04/10/2014	0.004	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.005	0.007	0.008	0.009	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.010	0.010	0.009	0.008	0.006
04/11/2014	0.005	0.004	0.003	0.002	0.001	0.001	0.002	0.005	0.008	0.010	0.010	0.008	0.008	0.009	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.011	0.009	0.007
04/12/2014	0.004	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.006	0.009	0.011	0.011	0.011	0.011	0.012	0.013	0.013	0.013	0.013	0.013	0.012	0.010	0.007
04/13/2014	0.005	0.003	0.002	0.002	0.002	0.001	0.002	0.003	0.005	0.007	0.008	0.009	0.010	0.014	0.017	0.018	0.018	0.017	0.016	0.015	0.013	0.011	0.009	0.007
04/14/2014	0.005	0.003	0.002	0.002	0.001	0.001	0.003	0.007	0.010	0.012	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.007	0.006
04/15/2014	0.004	0.003	0.002	0.002	0.003	0.003	0.002	0.003	0.005	0.005	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004
04/16/2014	0.003	0.002	0.001	0.000	0.000	0.000	0.001	0.002	0.003	0.004	0.004	0.004	0.004	0.005	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.003
04/17/2014	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.004	0.005	0.006	0.007	0.007	0.007	0.007	0.008	0.009	0.009	0.010	0.010	0.009	0.008	0.006
04/18/2014	0.005	0.003																						
04/19/2014																								
04/20/2014																								
04/21/2014																								
04/22/2014																								
04/23/2014																								
04/24/2014											0.000	0.000	0.004	0.006	0.007	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
04/25/2014	0.000	0.000	0.000	0.000	0.001	0.002	0.002	0.003	0.003	0.003	0.003	0.004	0.004	0.005	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.004
04/26/2014	0.003	0.002	0.002	0.001	0.001	0.001	0.001	0.002	0.003	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.004						
04/27/2014																								
04/28/2014																								
04/29/2014																								
04/30/2014												0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000

3-Hour Rolling Average

Unit 2 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Mitchell Power Plant
 Generated: 03/10/2015 14:54 Location: Moundsville, WV
 Tag Name: U2_PM_3H_LbPerMBtu_1H

Red = Invalid Data, based solely on an unsuccessful RRA conducted on 11/13/13 and again on 3/19/14. All daily calibrations passed. An RCA was completed on 11/12/14 and a combined correlation curve took affect on 11/13/14.

Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
05/01/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.002	0.002	0.002	0.003	0.004	0.005	0.006	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.004
05/02/2014	0.003	0.002	0.001	0.001	0.001	0.001	0.002	0.003	0.005	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.006	0.006	0.007	0.008	0.008	0.008	0.008
05/03/2014	0.006	0.004	0.002	0.001	0.001	0.001	0.001	0.002	0.003	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.007	0.009	0.010	0.010	0.010	0.010	0.008
05/04/2014	0.005	0.003	0.002	0.001	0.001	0.002	0.002	0.002	0.003	0.004	0.006	0.010	0.012	0.013	0.012	0.011	0.011	0.011	0.010	0.010	0.010	0.010	0.009	0.007
05/05/2014	0.005	0.003	0.002	0.001	0.000	0.000	0.001	0.002	0.003	0.005	0.007	0.009	0.009	0.008	0.007	0.007	0.008	0.008	0.008	0.009	0.010	0.010	0.009	0.007
05/06/2014	0.005	0.003	0.002	0.002	0.002	0.002	0.003	0.004	0.005	0.008	0.010	0.010	0.009	0.008	0.008	0.007	0.006	0.006	0.007	0.008	0.009	0.008	0.006	0.005
05/07/2014	0.003	0.002	0.002	0.002	0.002	0.002	0.004	0.006	0.008	0.009	0.010	0.012	0.013	0.013	0.013	0.014	0.014	0.014	0.013	0.013	0.013	0.013	0.012	0.009
05/08/2014	0.006	0.003	0.002	0.002	0.002	0.002	0.002	0.004	0.007	0.011	0.014	0.015	0.015	0.016	0.016	0.016	0.015	0.015	0.015	0.014	0.013	0.012	0.011	0.011
05/09/2014	0.009	0.006	0.003	0.002	0.001	0.001	0.002	0.004	0.008	0.011	0.012	0.012	0.011	0.012	0.012	0.012	0.011	0.011	0.010	0.009	0.008	0.007	0.004	0.002
05/10/2014	Unit o/s																							
05/11/2014																								
05/12/2014																								
05/13/2014																								
05/14/2014																								
05/15/2014																								
05/16/2014																								
05/17/2014																								
05/18/2014	Invalid Data																							
05/19/2014																								
05/20/2014																								
05/21/2014																								
05/22/2014																								
05/23/2014																								
05/24/2014	0.003	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.004	0.006	0.008	0.010	0.011	0.011	0.011	0.012	0.013	0.011	0.008	0.007	0.006	0.005
05/25/2014	0.003	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.004	0.007	0.011	0.016	0.018	0.018	0.016	0.015	0.014	0.012	0.009	0.006	0.004
05/26/2014	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.004	0.009	0.015	0.019	0.019	0.017	0.015	0.014	0.014	0.014	0.013	0.011	0.009
05/27/2014	0.006	0.003	0.002	0.001	0.001	0.002	0.003	0.006	0.010	0.015	0.016	0.014	0.010	0.007	0.006	0.006	0.005	0.005	0.004	0.003	0.002	0.002	0.002	0.002
05/28/2014	0.003	0.003	0.003	0.002	0.002	0.002	0.005	0.011	0.017	0.019	0.017	0.015	0.014	0.014	0.012	0.011	0.011	0.011	0.011	0.010	0.011	0.010	0.009	0.008
05/29/2014	0.006	0.004	0.003	0.002	0.002	0.002	0.002	0.004	0.006	0.007	0.008	0.009	0.012	0.016	0.021	0.020	0.018	0.015	0.013	0.012	0.011	0.011	0.009	0.007
05/30/2014	0.004	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.007	0.011	0.014	0.014	0.013	0.013	0.013	0.013	0.013	0.012	0.009	0.006	0.003	0.001	0.000
05/31/2014	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.004	0.007	0.012	0.016	0.017	0.016	0.014	0.012	0.011	0.009	0.006	0.004	0.003

3-Hour Rolling Average

Unit 2 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Mitchell Power Plant
 Generated: 03/10/2015 14:54 Location: Moundsville, WV
 Tag Name: U2_PM_3H_LbPerMBtu_1H

Red = Invalid Data, based solely on an unsuccessful RRA conducted on 11/13/13 and again on 3/19/14. All daily calibrations passed. An RCA was completed on 11/12/14 and a combined correlation curve took affect on 11/13/14.

Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
06/01/2014	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.004	0.009	0.014	0.017	0.016	0.015	0.014	0.012	0.011	0.009	0.008	0.007
06/02/2014	0.005	0.003	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.005	0.010	0.013	0.015	0.016	0.018	0.021	0.023	0.021	0.017	0.013	0.011	0.009	0.007
06/03/2014	0.005	0.003	0.002	0.001	0.001	0.001	0.002	0.002	0.003	0.005	0.009	0.013	0.014	0.013	0.013	0.012	0.011	0.010	0.009	0.010	0.010	0.010	0.009	0.007
06/04/2014	0.005	0.003	0.002	0.002	0.002	0.002	0.002	0.003	0.006	0.009	0.011	0.012	0.012	0.011	0.011	0.011	0.011	0.011	0.010	0.010	0.009	0.009	0.008	0.008
06/05/2014	0.007	0.005	0.003	0.002	0.002	0.002	0.002	0.003	0.005	0.007	0.008	0.008	0.009	0.010	0.010	0.009	0.008	0.008	0.008	0.008	0.008	0.007	0.006	0.005
06/06/2014	0.003	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.005	0.007	0.009	0.008	0.008	0.008	0.009	0.008	0.008	0.008	0.007	0.007	0.005	0.004
06/07/2014	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.006	0.009	0.010	0.009	0.008	0.008	0.008	0.007	0.007	0.006	0.005	0.004	0.003
06/08/2014	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.005	0.007	0.007	0.007	0.007	0.006	0.004	0.004	0.004	0.005	0.005	0.005	0.004	0.004
06/09/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.006	0.005
06/10/2014	0.005	0.004	0.003	0.002	0.001	0.002	0.003	0.005	0.007	0.008	0.008	0.008	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.008	0.010	0.011	0.010	0.007
06/11/2014	0.004	0.002	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.006	0.010	0.013	0.014	0.013	0.011	0.009	0.009	0.009	0.009	0.008	0.007	0.006	0.006
06/12/2014	0.005	0.004	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.004	0.004	0.006	0.008	0.011	0.012	0.012	0.011	0.010	0.009	0.008	0.007	0.006	0.004
06/13/2014	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.005	0.008	0.009	0.009	0.009	0.008	0.007	0.007	0.007	0.007	0.007	0.007	0.006	0.005	0.003	0.002
06/14/2014	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.004	0.004	0.004	0.003	0.002
06/15/2014	0.001	0.001	0.001	0.001	0.002	0.003	0.003	0.003	0.004	0.004	0.005	0.006	0.007	0.008	0.009	0.011	0.014	0.015	0.014	0.012	0.011	0.011	0.010	0.008
06/16/2014	0.006	0.003	0.002	0.001	0.001	0.001	0.002	0.002	0.002	0.003	0.006	0.008	0.009	0.009	0.009	0.009	0.009	0.008	0.008	0.007	0.006	0.006	0.005	0.005
06/17/2014	0.004	0.003	0.002	0.001	0.001	0.001	0.001	0.001	0.003	0.005	0.007	0.008	0.007	0.005	0.003	0.002	0.002	0.001	0.001	0.001	0.002	0.005	0.009	0.010
06/18/2014	0.009	0.007	0.005	0.003	0.002	0.002	0.003	0.006	0.009	0.010	0.009	0.008	0.006	0.004	0.003	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
06/19/2014	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.005	0.007	0.008	0.008	0.009	0.009	0.009	0.008	0.007	0.007	0.007	0.007	0.007	0.006	0.004
06/20/2014	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.005	0.008	0.009	0.009	0.008	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.006	0.005
06/21/2014	0.004	0.003	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.006	0.008	0.009	0.010	0.009	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.005	0.005
06/22/2014	0.004	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.004	0.006	0.008	0.009	0.009	0.008	0.007	0.007	0.007	0.007	0.006	0.005	0.004
06/23/2014	0.003	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.004	0.006	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.008	0.009	0.009	0.009	0.008	0.007	0.006
06/24/2014	0.004	0.003	0.002	0.002	0.002	0.002	0.003	0.005	0.006	0.007	0.008	0.008	0.008	0.008	0.007	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.006	0.006
06/25/2014	0.005	0.004	0.003	0.002	0.002	0.003	0.004	0.006	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.007	0.007	0.007	0.008	0.008	0.008	0.007	0.006
06/26/2014	0.005	0.004	0.004	0.003	0.003	0.003	0.005	0.007	0.008	0.008	0.007	0.007	0.008	0.009	0.009	0.009	0.009	0.009	0.010	0.009	0.009	0.008	0.008	0.007
06/27/2014	0.006	0.005	0.003	0.002	0.002	0.003	0.004	0.005	0.007	0.008	0.009	0.009	0.010	0.010	0.010	0.010	0.010	0.011	0.012	0.012	0.012	0.011	0.010	0.008
06/28/2014	0.006	0.004	0.003	0.003	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	Invalid Data	Unit o/s										
06/29/2014	Unit o/s																							
06/30/2014	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.002	0.003	0.005	0.006	0.006	0.007	0.007	0.007	0.006	0.006	0.005

3-Hour Rolling Average

Unit 2 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Mitchell Power Plant
 Generated: 03/10/2015 14:54 Location: Moundsville, WV
 Tag Name: U2_PM_3H_LbPerMBtu_1H

Red = Invalid Data, based solely on an unsuccessful RRA conducted on 11/13/13 and again on 3/19/14. All daily calibrations passed. An RCA was completed on 11/12/14 and a combined correlation curve took affect on 11/13/14.
 Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
07/01/2014	0.004	0.003	0.003	0.002	0.002	0.002	0.003	0.004	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.007	0.007	0.006	0.006	0.006
07/02/2014	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.006	0.005
07/03/2014	0.004	0.004	0.003	0.003	0.003	0.003	0.004	0.005	0.006	0.007	0.008	0.008	0.008	0.007	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.003	0.003	0.002
07/04/2014	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.002	0.002	0.002
07/05/2014	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.006	0.007	0.007	0.006	0.005	0.004	0.003	0.002
07/06/2014	0.003	0.004	0.005	0.005	0.005	0.006	0.006	0.007	0.007	0.007	0.007	0.008	0.009	0.010	0.011	0.011	0.012	0.011	0.011	0.010	0.009	0.009	0.008	0.006
07/07/2014	0.004	0.003	0.002	0.002	0.002	0.002	0.003	0.003	0.005	0.008	0.010	0.011	0.010	0.010	0.009	0.008	0.007	0.007	0.008	0.008	0.007	0.006	0.005	0.004
07/08/2014	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.004	0.004	0.004	0.005	0.007	0.008	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.004	0.004	0.003
07/09/2014	0.003	0.002	0.002	0.001	0.001	0.001	0.002	0.003	0.004	0.006	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.006	0.004
07/10/2014	0.003	0.002	0.001	0.001	0.001	0.002	0.002	0.003	0.004	0.005	0.007	0.008	0.008	0.009	0.009	0.009	0.008	0.007	0.007	0.007	0.007	0.006	0.005	0.003
07/11/2014	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.004	0.006	0.007	0.008	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.007	0.007	0.006	0.005
07/12/2014	0.004	0.003	0.002	0.001	0.001	0.001	0.001	0.002	0.003	0.005	0.006	0.007	0.007	0.007	0.006	0.005	0.005	0.005	0.005	0.004	0.004	0.005	0.006	0.006
07/13/2014	0.006	0.004	0.002	0.002	0.002	0.001	0.001	0.002	0.003	0.005	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.007	0.006
07/14/2014	0.005	0.003	0.002	0.002	0.003	0.004	0.005	0.006	0.007	0.006	0.006	0.006	0.006	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.004	0.004
07/15/2014	0.003	0.002	0.002	0.002	0.002	0.002	0.003	0.004	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.003	0.003
07/16/2014	0.002	0.002	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.004	0.004	0.005	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.004	0.004	0.004	0.003
07/17/2014	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.003	0.004	0.005	0.006	0.006	0.007	0.007	0.006	0.006	0.005	0.005	0.005	0.005	0.004	0.003
07/18/2014	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.003	0.004	0.005	0.006	0.006	0.006	0.006	0.005	0.005	0.004	0.004	0.003	0.003
07/19/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003
07/20/2014	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.004	0.005	0.006	0.006	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.004
07/21/2014	0.003	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.005	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.007	0.006	0.005
07/22/2014	0.004	0.003	0.002	0.001	0.001	0.002	0.002	0.003	0.004	0.005	0.007	0.008	0.008	0.008	0.009	0.009	0.009	0.008	0.008	0.007	0.007	0.007	0.007	0.006
07/23/2014	0.005	0.003	0.002	0.002	0.002	0.002	0.003	0.005	0.007	0.009	0.009	0.009	0.008	0.008	0.008	0.009	0.009	0.011	0.012	0.012	0.010	0.008	0.006	0.004
07/24/2014	0.003	0.003	0.002	0.003	0.002	0.003	0.003	0.004	0.006	0.008	0.009	0.008	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.004	0.003
07/25/2014	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.004	0.005	0.007	0.008	0.009	0.010	0.010	0.010	0.008	0.008	0.008	0.008	0.009	0.008	0.007
07/26/2014	0.005	0.003	0.003	0.003	0.002	0.002	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.010	0.011	0.012	0.012	0.012	0.012	0.011	0.011	0.010	0.010	0.008
07/27/2014	0.007	0.006	0.005	0.004	0.003	0.003	0.003	0.003	0.005	0.007	0.010	0.012	0.013	0.011	0.010	0.009	0.009	0.009	0.009	0.009	0.009	0.008	0.007	0.005
07/28/2014	0.004	0.003	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.004	0.005	0.006	0.007	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.008	0.007	0.006	0.005
07/29/2014	0.004	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.005	0.006	0.008	0.009	0.009	0.009	0.010	0.011	0.011	0.011	0.011	0.011	0.010	0.008	0.005
07/30/2014	0.004	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.006	0.009	0.012	0.015	0.016	0.016	0.016	0.014	0.013	0.013	0.012	0.011	0.009	0.007
07/31/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.007	0.008	0.012	0.014	0.017	0.019	0.019	0.019	0.017	0.016	0.015	0.015	0.014	0.014	0.012	0.011	0.008

3-Hour Rolling Average

Unit 2 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Mitchell Power Plant
 Generated: 03/10/2015 14:54 Location: Moundsville, WV
 Tag Name: U2_PM_3H_LbPerMBtu_1H

Red = Invalid Data, based solely on an unsuccessful RRA conducted on 11/13/13 and again on 3/19/14. All daily calibrations passed. An RCA was completed on 11/12/14 and a combined correlation curve took affect on 11/13/14.

Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23										
08/01/2014	0.008	0.006	0.006	0.004	0.004	0.005	0.006	0.007	0.008	0.010	0.011	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.011	0.011	0.011	0.010	0.009	0.007										
08/02/2014	0.005	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.007	0.009	0.012	0.014	0.014	0.013	0.013	0.013	0.012	0.012	0.011	0.011	0.011	0.010	0.010	0.009										
08/03/2014	0.008	0.007	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.006	0.007	0.009	0.011	0.012	0.012	0.013	0.013	0.012	0.012	0.011	0.011	0.010	0.008										
08/04/2014	0.007	0.005	0.004	0.004	0.004	0.005	0.006	0.007	0.008	0.009	0.011	0.013	0.014	0.014	0.013	0.014	0.014	0.014	0.013	0.013	0.013	0.012	0.011	0.009										
08/05/2014	0.008	0.006	0.005	0.004	0.004	0.005	0.005	0.006	0.007	0.008	0.011	0.015	0.018	0.019	0.018	0.018	0.018	0.017	0.017	0.017	0.017	0.017	0.016	0.015										
08/06/2014	0.013	0.011	0.009	0.008	0.007	0.009	0.010	0.012	0.013	0.014	0.015	0.017	0.019	0.019	0.019	0.019	0.019	0.018	0.017	0.015	0.014	0.013	0.012	0.012										
08/07/2014	0.010	0.007	0.006	0.005	0.004	0.004	0.005	0.006	0.007	0.009	0.011	0.011	0.012	0.012	0.013	0.013	0.013	0.012	0.012	0.011	0.011	0.010	0.009	0.008										
08/08/2014	0.006	0.005	0.005	0.005	0.005	0.005	0.006	0.007	0.009	0.010	0.012	0.015	0.017	0.018	0.018	0.017	0.016	0.015	0.015	0.013	0.012	0.010	0.009	0.008										
08/09/2014	0.007	0.006	0.006	0.005	0.005	0.005	0.005	0.006	0.008	0.011	0.014	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.015	0.015	0.014	0.014	0.013										
08/10/2014	0.012	0.010	0.008	0.006	0.006	0.006	0.006	0.007	0.008	0.010	0.012	0.015	0.018	0.019	0.019	0.019	0.018	0.018	0.017	0.017	0.016	0.015	0.014	0.013										
08/11/2014	0.011	0.009	0.007	0.007	0.007	0.007	0.009	0.016	Unit o/s																									
08/12/2014	Unit o/s																																	
08/13/2014	Unit o/s																																	
08/14/2014	Unit o/s																																	
08/15/2014	Unit o/s																																	
08/16/2014	Unit o/s																																	
08/17/2014	Unit o/s																																	
08/18/2014	Unit o/s																																	
08/19/2014	Unit o/s																																	
08/20/2014	Unit o/s																																	
08/21/2014	Unit o/s																																	
08/22/2014	0.003	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.003	0.005	0.006	0.005	0.005	0.005										
08/23/2014	0.004	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.005	0.008	0.010	0.011	0.009	0.007	0.006	0.005	0.005	0.004	0.002										
08/24/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.005	0.007	0.010	0.012	0.012	0.012	0.013	0.012	0.012	0.011	0.011	0.010	0.007	0.005										
08/25/2014	0.003	0.003	0.002	0.002	0.002	0.002	0.003	0.004	0.005	0.007	0.009	0.010	0.010	0.011	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.011	0.009	0.006										
08/26/2014	0.004	0.003	0.003	0.002	0.002	0.003	0.004	0.005	0.006	0.007	0.010	0.013	0.014	0.014	0.012	0.010	0.010	0.012	0.013	0.013	0.011	0.009	0.007	0.005										
08/27/2014	0.004	0.003	0.003	0.002	0.002	0.003	0.004	0.005	0.007	0.008	0.010	0.012	0.014	0.014	0.014	0.014	0.014	0.014	0.013	0.012	0.010	0.009	0.008	0.007										
08/28/2014	0.006	0.004	0.003	0.003	0.003	0.004	0.006	0.007	0.009	0.010	0.011	0.012	0.011	0.011	0.011	0.012	0.013	0.013	0.012	0.010	0.009	0.007	0.006	0.004										
08/29/2014	0.003	0.002	0.002	0.001	0.001	0.002	0.003	0.003	0.004	0.004	0.004	0.005	0.007	0.009	0.010	0.010	0.010	0.010	0.009	0.008	0.007	0.006	0.005	0.003										
08/30/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.006	0.008	0.010	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.008	0.007	0.005	0.004										
08/31/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.006	0.007	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.006	0.006	0.005	0.004										

3-Hour Rolling Average

Unit 2 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Mitchell Power Plant
 Generated: 03/10/2015 14:54 Location: Moundsville, WV
 Tag Name: U2_PM_3H_LbPerMBtu_1H

Red = Invalid Data, based solely on an unsuccessful RRA conducted on 11/13/13 and again on 3/19/14. All daily calibrations passed. An RCA was completed on 11/12/14 and a combined correlation curve took affect on 11/13/14.
 Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
09/01/2014	0.003	0.003	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.006	0.007	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.006	0.006	0.006	0.005	0.004	
09/02/2014	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.004	0.006	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.004	0.003	
09/03/2014	0.003	0.002	0.002	0.002	0.003	0.003	0.004	0.005	0.005	0.006	0.006	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.007	0.006	0.005	0.004	
09/04/2014	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.005	0.007	0.008	0.008	0.007	0.006	0.006	0.006	0.007	0.008	0.007	0.007	0.007	0.006	
09/05/2014	0.005	0.004	0.003	0.002	0.002	0.003	0.005	0.007	0.008	0.009	0.010	0.010	0.010	0.010	0.010	0.009	0.008	0.005	0.004	0.004	0.007	0.010	0.011	0.010	
09/06/2014	0.009	0.009	0.009	0.007	0.007	0.007	0.007	0.008	0.010	0.012	0.012	0.011	0.011	0.011	0.011	0.010	0.009	0.008	0.007	0.006	0.007	0.006	0.006	0.005	
09/07/2014	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.003	0.005	0.008	0.010	0.012	0.013	0.012	0.011	0.009	0.008	0.007	0.006	0.004	
09/08/2014	0.003	0.002	0.002	0.002	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009	0.010	0.012	0.012	0.012	0.012	0.011	0.010	0.009	0.008	0.008	0.007	0.005	
09/09/2014	0.003	0.002	0.002	0.002	0.002	0.002	0.003	0.005	0.006	0.006	0.006	0.007	0.009	0.010	0.011	0.011	0.010	0.009	0.009	0.009	0.009	0.008	0.008	0.006	
09/10/2014	0.004	0.003	0.002	0.003	0.003	0.004	0.006	0.007	0.008	0.007	0.007	0.009	0.011	0.012	0.012	0.012	0.012	0.012	0.011	0.010	0.009	0.009	0.008	0.007	
09/11/2014	0.005	0.004	0.003	0.003	0.004	0.004	0.006	0.008	0.009	0.009	0.008	0.008	0.008	0.010	0.010	0.010	0.009	0.010	0.010	0.010	0.010	0.010	0.009	0.006	
09/12/2014	0.004	0.003	0.002	0.002	0.002	0.003	0.004	0.005	0.006	0.006	0.007	0.007	0.008	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.008	0.008	0.006	0.004	
09/13/2014	0.003	0.002	0.003	0.003	0.003	0.003	0.004	0.005	0.006	0.008	0.009	0.010	0.009	0.009	0.009	0.009	0.009	0.008	0.008	0.009	0.010	0.010	0.008	0.005	
09/14/2014	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.005	0.006	0.006	0.006	0.006	0.005	0.004	0.004	
09/15/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.005	0.006	0.009	0.012	0.013	0.012	0.011	0.011	0.010	0.008	0.008	0.008	0.011	0.013	0.013	0.009	0.006	
09/16/2014	0.004	0.003	0.003	0.003	0.003	0.005	0.007	0.010	0.012	0.013	0.014	0.014	0.015	0.015	0.014	0.013	0.013	0.013	0.013	0.011	0.009	0.009	0.008	0.006	
09/17/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.007	0.008	0.009	0.010	0.012	0.014	0.015	0.016	0.018	0.021	0.023	0.022	0.020	0.019	0.018	0.015	0.011	0.008	
09/18/2014	0.005	0.004	0.003	0.004	0.004	0.005	0.007	0.010	0.011	0.013	0.014	0.016	0.017	0.017	0.018	0.018	0.018	0.017	0.014	0.013	0.014	0.014	0.012	0.008	
09/19/2014	0.005	0.004	0.003	0.003	0.003	0.004	0.005	0.007	0.008	0.010	0.014	0.016	0.016	0.014	0.013	0.013	0.014	0.015	0.015	0.013	0.012	0.012	0.011	0.008	
09/20/2014	0.006	0.005	0.004	0.004	0.003	0.003	0.004	0.006	0.007	0.009	0.011	0.012	0.013	0.013	0.013	0.013	0.014	0.015	0.015	0.014	0.013	0.013	0.012	0.011	
09/21/2014	0.008	0.007	0.006	Unit o/s																					
09/22/2014	Unit o/s																								
09/23/2014	Unit o/s																								
09/24/2014	Unit o/s																	0.004	0.002	0.001	0.001	0.001	0.001	0.001	0.001
09/25/2014	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.001	0.002	0.003	0.004	0.005	0.005	0.006	0.007	0.008	0.010	0.011	0.014	0.016	0.017	0.014	0.011	0.008	
09/26/2014	0.006	0.005	0.004	0.004	0.004	0.004	0.006	0.007	0.008	0.009	0.012	0.014	0.016	0.017	0.017	0.017	0.016	0.015	0.013	0.011	0.010	0.008	0.007	0.005	
09/27/2014	0.005	0.004	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.003	
09/28/2014	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.004	0.005	0.005	0.006	0.008	0.009	0.009	0.008	0.006	0.004	0.002	
09/29/2014	0.001	0.001	0.001	0.001	0.002	0.003	0.005	0.007	0.009	0.010	0.011	0.013	0.015	0.016	0.014	0.013	0.012	0.013	0.013	0.013	0.012	0.010	0.008	0.006	
09/30/2014	0.004	0.003	0.002	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009	0.010	0.011	0.010	0.010	0.010	0.010	0.009	0.008	0.008	0.007	0.006	0.004	0.003	

3-Hour Rolling Average

Unit 2 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Mitchell Power Plant
 Generated: 03/10/2015 14:54 Location: Moundsville, WV
 Tag Name: U2_PM_3H_LbPerMBtu_1H

Red = Invalid Data, based solely on an unsuccessful RRA conducted on 11/13/13 and again on 3/19/14. All daily calibrations passed. An RCA was completed on 11/12/14 and a combined correlation curve took affect on 11/13/14.
 Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
10/01/2014	0.002	0.002	0.002	0.002	0.002	0.003	0.004	0.005	0.006	0.007	0.009	0.010	0.011	0.010	0.010	0.011	0.011	0.011	0.010	0.009	0.008	0.007	0.006	0.004		
10/02/2014	0.003	0.002	0.002	0.002	0.002	0.002	0.004	0.005	0.006	0.007	0.008	0.009	0.009	0.009	0.010	0.010	0.011	0.011	0.010	0.008	0.007	0.006	0.006	0.006		
10/03/2014	0.005	0.004	0.003	0.002	0.002	0.002	0.004	0.005	0.007	0.008	0.008	0.008	0.006	0.005	0.004	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.005	0.003		
10/04/2014	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.001	0.002	0.002	0.003	0.003	0.003	0.003	0.002		
10/05/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.004	0.004	0.004	0.003	0.002		
10/06/2014	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.004	0.005	0.006	0.006	0.007	0.007	0.007	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.003	0.002		
10/07/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.001	Invalid Data			0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.001		
10/08/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.001	0.002	0.003	0.003	0.003	0.002	0.001		
10/09/2014	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.002	0.001		
10/10/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002		
10/11/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003		
10/12/2014	0.002	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.002	0.003	0.004	0.005	0.004	0.003	0.002		
10/13/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.004	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.006	0.006	0.005	0.005	0.004	0.003		
10/14/2014	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.004	0.004	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.005	0.004	0.004	0.003	0.002		
10/15/2014	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.006	0.007	0.007	0.007	0.006	0.005	0.004	0.003		
10/16/2014	0.002	0.002	0.001	0.001	0.001	0.001	0.002	0.003	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.003	0.003	0.002		
10/17/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.005	0.006	0.007	0.006	0.005	0.004	0.005	0.006	0.007	0.006	0.006	0.005	0.005	0.005	0.004	0.003		
10/18/2014	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.004	0.004	0.003	0.002	0.002	0.002	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002		
10/19/2014	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.002	0.003	0.003	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.004	0.004	0.003	0.002		
10/20/2014	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.005	0.004	0.003	0.002		
10/21/2014	0.001	0.000	0.000	0.000	0.000	0.001	0.002	0.003	0.003	0.003	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.001		
10/22/2014	0.001	0.001	0.000	0.000	0.000	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.000		
10/23/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.002	Unit o/s								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/24/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.002		
10/25/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003		
10/26/2014	0.002	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.001		
10/27/2014	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.004	0.005	0.006	0.006	0.006	0.007	0.007	0.008	0.006	0.006	0.005	0.005	0.006	0.005	0.004		
10/28/2014	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.004	0.004	0.005	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.004	0.005	0.006	0.006	0.006	0.005		
10/29/2014	0.003	0.002	0.002	0.001	0.001	0.001	0.002	0.004	0.005	0.006	0.005	0.005	Invalid Data													
10/30/2014	Invalid Data									0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.004	0.005	0.005	0.005	0.004	
10/31/2014	0.003	0.002	0.002	0.002	0.002	0.002	0.003	0.004	0.005	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002		

3-Hour Rolling Average

Unit 2 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Mitchell Power Plant
 Generated: 03/10/2015 14:54 Location: Moundsville, WV
 Tag Name: U2_PM_3H_LbPerMBtu_1H

Red = Invalid Data, based solely on an unsuccessful RRA conducted on 11/13/13 and again on 3/19/14. All daily calibrations passed. An RCA was completed on 11/12/14 and a combined correlation curve took affect on 11/13/14.
 Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
11/01/2014	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.005	0.005	0.006	0.005	0.005	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
11/02/2014	0.003	0.003	0.002	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003	0.003
11/03/2014	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.004	0.004	0.003	0.004	0.005	0.006	0.006	0.005	0.004	0.003
11/04/2014	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.005	0.004	0.004	0.004	0.004	0.003
11/05/2014	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003
11/06/2014	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.003	0.004	0.004	0.004	0.003	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001
11/07/2014	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.002	0.002	0.002	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
11/08/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.003	0.004	0.004	0.004	0.003
11/09/2014	0.003	0.002	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.002	0.001	0.001	0.002	0.003	0.004	0.004	0.004	0.004	0.003	0.002
11/10/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003	0.004	0.004	0.004	0.003	0.003
11/11/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.004	0.004	0.004	0.005	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.009	0.009	0.008	0.006	0.006	0.006
11/12/2014	0.006	0.005	0.004	0.004	0.003	0.003	0.004	0.005	0.006	0.006	0.008	0.009	0.010	0.011	0.012	0.012	0.011	0.010	0.009	0.008	0.008	0.007	0.006	0.005
11/13/2014	0.004	0.004	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
11/14/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002
11/15/2014	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.001
11/16/2014	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.002	0.002
11/17/2014	0.002	0.002	0.002	0.002	0.001	0.001	0.002	0.002	0.003	0.004	0.004	0.003	0.003	0.003	0.003	0.002	0.002	0.003	0.003	0.003	0.002	0.002	0.002	0.001
11/18/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
11/19/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.003
11/20/2014	0.003	0.002	0.002	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002
11/21/2014	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.002
11/22/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.004	0.005	0.006	0.007	0.006	0.006	0.005
11/23/2014	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.006	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.008	0.008	0.008	0.043	0.043	0.042	0.006
11/24/2014	0.006	0.005	0.004	0.004	0.004	0.004	0.005	0.005	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.007	0.007	0.006	0.006	0.005
11/25/2014	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.004	0.005	0.006	0.007	0.007	0.007	0.007	0.006	0.006	0.005	0.005	0.006	0.006	0.005	0.005	0.004	0.004
11/26/2014	0.004	0.004	Invalid Data				0.003	0.004	0.004															
11/27/2014																								
11/28/2014																								
11/29/2014																								
11/30/2014																								

3-Hour Rolling Average

Unit 2 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Mitchell Power Plant
 Generated: 03/10/2015 14:54 Location: Moundsville, WV
 Tag Name: U2_PM_3H_LbPerMBtu_1H

Red = Invalid Data, based solely on an unsuccessful RRA conducted on 11/13/13 and again on 3/19/14. All daily calibrations passed. An RCA was completed on 11/12/14 and a combined correlation curve took affect on 11/13/14.
 Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
12/01/2014	Invalid Data																							
12/02/2014	Invalid Data																							
12/03/2014	Invalid Data																							
12/04/2014	Invalid Data																							
12/05/2014	Unit o/s																							
12/06/2014	Unit o/s																							
12/07/2014	Unit o/s																							
12/08/2014	Unit o/s											0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/09/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.002	0.002	0.001	0.001
12/10/2014	0.002	0.002	0.001	0.000	0.000	0.000	0.001	0.001	0.002	0.002	0.002	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
12/11/2014	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002
12/12/2014	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.002	0.002	0.003	0.002	0.002	0.002	0.002
12/13/2014	0.002	0.002	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.001
12/14/2014	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.001
12/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002
12/16/2014	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002
12/17/2014	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002
12/18/2014	0.002	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12/19/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002
12/20/2014	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001
12/21/2014	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.002	0.002	0.001	0.001
12/22/2014	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.001
12/23/2014	0.001	0.001	0.001	0.002	0.002	0.001	0.001	0.001	Invalid Data			0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
12/24/2014	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	Invalid Data				0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000
12/25/2014	0.000	0.000	0.000	0.000	0.000	0.000	Invalid Data																	
12/26/2014	Invalid Data																							
12/27/2014	Invalid Data											0.001	Invalid Data											
12/28/2014	Invalid Data																		0.001	0.001	0.001	0.001	0.001	
12/29/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.001
12/30/2014	0.001	0.001	0.000	0.000	0.000	Invalid Data																		
12/31/2014	Invalid Data																							

3-Hour Rolling Average

Unit 2 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Cardinal Power Plant
 Generated: 03/09/2015 13:46 Location: Brilliant, OH
 Tag Name: U2_PM_3H_LbPerMBtu_1H

Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
01/01/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	
01/02/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	Invalid Data				0.003	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.002	0.002	
01/03/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.002	0.002	0.002	
01/04/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
01/05/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
01/06/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	
01/07/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
01/08/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	
01/09/2014	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.003	
01/10/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
01/11/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
01/12/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
01/13/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
01/14/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
01/15/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
01/16/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
01/17/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
01/18/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
01/19/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
01/20/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
01/21/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
01/22/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.008	0.019	Unit o/s															
01/23/2014	Unit o/s				0.032	0.032	0.026	0.019	0.010	0.009	0.009	0.009	0.008	0.007	0.006	0.006	0.006	0.005	0.004	0.004	0.004				
01/24/2014	Unit o/s																								
01/25/2014				0.028	0.022	0.015	0.010	0.008	0.007	0.006	0.005	0.004	0.004	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
01/26/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
01/27/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
01/28/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
01/29/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
01/30/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
01/31/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	Unit o/s			

3-Hour Rolling Average

Unit 2 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Cardinal Power Plant
 Generated: 03/09/2015 13:46 Location: Brilliant, OH
 Tag Name: U2_PM_3H_LbPerMBtu_1H

Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
02/01/2014	Unit o/s																								
02/02/2014	Unit o/s																								
02/03/2014																					0.044	0.040	0.031	0.021	
02/04/2014	0.013	0.009	0.008	0.008	0.008	0.007	0.007	0.006	0.006	0.005	0.005	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	
02/05/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
02/06/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	
02/07/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	
02/08/2014	0.004	Invalid Data	Unit o/s																	0.038	0.030	0.030	0.034	0.035	0.031
02/09/2014	0.024	0.020	0.015	0.012	0.009	0.008	0.007	0.007	0.006	0.006	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	
02/10/2014	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	
02/11/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
02/12/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	
02/13/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	Invalid Data					0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	
02/14/2014	0.003	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	
02/15/2014	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
02/16/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
02/17/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	
02/18/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
02/19/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	Invalid Data						0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
02/20/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	
02/21/2014	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.003	0.003	0.003	0.004	0.004	0.004	0.004	
02/22/2014	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	
02/23/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	
02/24/2014	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	
02/25/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.004	
02/26/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	
02/27/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	
02/28/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	

3-Hour Rolling Average

Unit 2 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Cardinal Power Plant
 Generated: 03/09/2015 13:46 Location: Brilliant, OH
 Tag Name: U2_PM_3H_LbPerMBtu_1H

Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
03/01/2014	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03/02/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03/03/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03/04/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03/05/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03/06/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03/07/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03/08/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	Invalid Data				0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03/09/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03/10/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03/11/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03/12/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03/13/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03/14/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03/15/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	Invalid Data	
03/16/2014	Invalid Data	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03/17/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03/18/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03/19/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03/20/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03/21/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03/22/2014	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03/23/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003
03/24/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
03/25/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
03/26/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
03/27/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.004	0.004
03/28/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03/29/2014	0.004																							
03/30/2014	Unit o/s																							
03/31/2014																								

3-Hour Rolling Average

Unit 2 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Cardinal Power Plant
 Generated: 03/09/2015 13:46 Location: Brilliant, OH
 Tag Name: U2_PM_3H_LbPerMBtu_1H

Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
04/01/2014	Unit o/s																							
04/02/2014																								
04/03/2014																								
04/04/2014																								
04/05/2014																								
04/06/2014																								0.015
04/07/2014	0.009	0.005	0.004	0.004	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04/08/2014	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04/09/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04/10/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04/11/2014	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002
04/12/2014	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
04/13/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002
04/14/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
04/15/2014	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04/16/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04/17/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.002
04/18/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
04/19/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
04/20/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
04/21/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04/22/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04/23/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04/24/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04/25/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04/26/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04/27/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04/28/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04/29/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04/30/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002

3-Hour Rolling Average

Unit 2 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Cardinal Power Plant
 Generated: 03/09/2015 13:46 Location: Brilliant, OH
 Tag Name: U2_PM_3H_LbPerMBtu_1H

Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
06/01/2014	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002			
06/02/2014	0.002	0.002	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002			
06/03/2014	0.002	0.002	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002			
06/04/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002			
06/05/2014	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002			
06/06/2014	0.002	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002			
06/07/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			
06/08/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002			
06/09/2014	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			
06/10/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002			
06/11/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.004	0.004			
06/12/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004			
06/13/2014	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			
06/14/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001			
06/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001			
06/16/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			
06/17/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			
06/18/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			
06/19/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			
06/20/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			
06/21/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			
06/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			
06/23/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			
06/24/2014	0.001	0.001	0.001	0.001	0.001	0.001	Invalid Data						0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
06/25/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	Invalid Data			0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		
06/26/2014	0.002	0.002	0.002	0.001	Invalid Data							0.001	Invalid Data				0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
06/27/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			
06/28/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	Invalid Data						0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
06/29/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			
06/30/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			

3-Hour Rolling Average

Unit 2 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Cardinal Power Plant
 Generated: 03/09/2015 13:46 Location: Brilliant, OH
 Tag Name: U2_PM_3H_LbPerMBtu_1H

Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
07/01/2014	0.001	0.001	0.001	0.001	0.001	0.001	Invalid Data				0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
07/02/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
07/03/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
07/04/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
07/05/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
07/06/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
07/07/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
07/08/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.018																	
07/09/2014	Unit o/s																								
07/10/2014																									
07/11/2014																									
07/12/2014																									
07/13/2014																									
07/14/2014																									
07/15/2014																									
07/16/2014																									
07/17/2014																									
07/18/2014																								0.012	0.009
07/19/2014	Unit o/s												0.009	0.007	0.004	0.003	0.003	0.002	0.002	0.002	0.001	0.001	Unit o/s		
07/20/2014	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
07/21/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
07/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
07/23/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
07/24/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
07/25/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
07/26/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
07/27/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
07/28/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001
07/29/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
07/30/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001
07/31/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.002	Invalid Data	Unit o/s																

3-Hour Rolling Average

Unit 2 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Cardinal Power Plant
 Generated: 03/09/2015 13:46 Location: Brilliant, OH
 Tag Name: U2_PM_3H_LbPerMBtu_1H

Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
08/01/2014	Unit o/s																								
08/02/2014																									
08/03/2014																									
08/04/2014																									
08/05/2014																								0.007	0.005
08/06/2014	0.003	0.002	0.002	0.002	Unit o/s																		0.029		
08/07/2014	0.028	0.005	0.004	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.004	0.006	0.007	0.008	0.006	0.006	0.005	0.004	0.003	0.003	0.002	
08/08/2014	0.002	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
08/09/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
08/10/2014	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
08/11/2014	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	
08/12/2014	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	
08/13/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
08/14/2014	0.002	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
08/15/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
08/16/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	
08/17/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
08/18/2014	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
08/19/2014	0.002	0.002	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
08/20/2014	0.002	0.002	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
08/21/2014	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	
08/22/2014	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
08/23/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
08/24/2014	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
08/25/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.006	Unit o/s													
08/26/2014	Unit o/s														0.007	0.005	0.003	0.002	0.002	0.002	0.002	0.002	0.002		
08/27/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
08/28/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
08/29/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
08/30/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	Unit o/s											0.011	0.009	0.007	0.006	0.004
08/31/2014	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.002	0.004	0.005	0.006	0.005	0.004	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	

3-Hour Rolling Average

Unit 2 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Cardinal Power Plant
 Generated: 03/09/2015 13:46 Location: Brilliant, OH
 Tag Name: U2_PM_3H_LbPerMBtu_1H

Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
09/01/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	Unit o/s										
09/02/2014	Unit o/s																								
09/03/2014	Unit o/s																								
09/04/2014	Unit o/s																								
09/05/2014	Unit o/s																								
09/06/2014	Invalid Data											0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
09/07/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.001	
09/08/2014	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.009	Unit o/s													
09/09/2014	Unit o/s																					0.004	0.003		
09/10/2014	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	
09/11/2014	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	
09/12/2014	0.002	0.002	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
09/13/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
09/14/2014	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
09/15/2014	0.002	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
09/16/2014	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
09/17/2014	0.002	0.002	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
09/18/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
09/19/2014	0.002	0.002	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
09/20/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
09/21/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
09/22/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
09/23/2014	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
09/24/2014	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
09/25/2014	0.002	0.002	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
09/26/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
09/27/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	Invalid Data			0.002	0.002	Unit o/s										
09/28/2014	Unit o/s																								
09/29/2014	Invalid Data																								
09/30/2014	Unit o/s																								

3-Hour Rolling Average

Unit 2 - PM CEMS (lb/MBtu)



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From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Cardinal Power Plant
 Generated: 03/09/2015 13:46 Location: Brilliant, OH
 Tag Name: U2_PM_3H_LbPerMBtu_1H

Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
10/01/2014																								
10/02/2014																								
10/03/2014																								
10/04/2014																								
10/05/2014																								
10/06/2014																								
10/07/2014																								
10/08/2014																								
10/09/2014																								
10/10/2014																								
10/11/2014																								
10/12/2014																								
10/13/2014																								
10/14/2014																								
10/15/2014																								
10/16/2014																								
10/17/2014																								
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10/21/2014																								
10/22/2014																								
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10/24/2014																								
10/25/2014																								
10/26/2014																								
10/27/2014																								
10/28/2014																								
10/29/2014																								
10/30/2014																								
10/31/2014																								

Invalid Data

3-Hour Rolling Average

Unit 2 - PM CEMS (lb/MBtu)



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From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Cardinal Power Plant
 Generated: 03/09/2015 13:46 Location: Brilliant, OH
 Tag Name: U2_PM_3H_LbPerMBtu_1H

Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
11/01/2014	Invalid Data																							
11/02/2014	Invalid Data																							
11/03/2014	Invalid Data																0.014	0.011	0.008	0.006	0.004	0.004	0.003	0.003
11/04/2014	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11/05/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11/06/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11/07/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
11/08/2014	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
11/09/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001
11/10/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11/11/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11/12/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11/13/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11/14/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11/16/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11/17/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11/18/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001
11/19/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11/20/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11/21/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11/23/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11/24/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001
11/25/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11/26/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11/27/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11/28/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11/29/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11/30/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001

3-Hour Rolling Average

Unit 2 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Cardinal Power Plant
 Generated: 03/09/2015 13:46 Location: Brilliant, OH
 Tag Name: U2_PM_3H_LbPerMBtu_1H

Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
12/01/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	Invalid Data			0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12/02/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12/03/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12/04/2014	0.001	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12/05/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12/06/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12/07/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12/08/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12/09/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12/10/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12/11/2014	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/12/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/13/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001
12/14/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12/15/2014	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12/16/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12/17/2014	0.001	0.001	Unit o/s																						
12/18/2014																									
12/19/2014																									
12/20/2014																									
12/21/2014																									
12/22/2014																									
12/23/2014																									
12/24/2014																									
12/25/2014																									
12/26/2014																									
12/27/2014			0.005	0.004	0.002	0.001	0.001	0.003	0.003	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12/28/2014	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/29/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12/30/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12/31/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001

3-Hour Rolling Average

Unit 1 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Cardinal Power Plant
 Generated: 02/20/2015 15:46 Location: Brilliant, OH
 Tag Name: U1_PM_3H_LbPerMBtu_1H

Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
01/01/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
01/02/2014	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	Invalid Data			0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
01/03/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
01/04/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
01/05/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.001	0.001	0.001	0.002	0.003	0.004	0.004	0.003	0.003	0.004	0.004	0.004	
01/06/2014	0.004	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.004					
01/07/2014	Unit o/s																								
01/08/2014																									
01/09/2014																									
01/10/2014																									
01/11/2014																									
01/12/2014																									
01/13/2014																									
01/14/2014																									
01/15/2014																									
01/16/2014																									
01/17/2014																									
01/18/2014																									
01/19/2014																									
01/20/2014																									
01/21/2014																									
01/22/2014																									
01/23/2014																									
01/24/2014																									
01/25/2014																									
01/26/2014																									
01/27/2014														0.010	0.007	0.005	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003
01/28/2014	0.003	0.002	0.002	0.002	0.002	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.002	0.001	0.001	0.001	0.001	
01/29/2014	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.002	0.003	0.003	0.002	0.002	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
01/30/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	
01/31/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	

3-Hour Rolling Average

Unit 1 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Cardinal Power Plant
 Generated: 02/20/2015 15:46 Location: Brilliant, OH
 Tag Name: U1_PM_3H_LbPerMBtu_1H

Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
02/01/2014	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
02/02/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.002	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.001	0.001	0.000		
02/03/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
02/04/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001		
02/05/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
02/06/2014	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001		
02/07/2014	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000		
02/08/2014	0.000	Invalid Data	Unit o/s																							
02/09/2014	Unit o/s																									
02/10/2014	Unit o/s							0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	
02/11/2014	0.001	0.001	0.002	0.004	0.005	0.005	0.005	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002		
02/12/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.001	0.001	0.001	0.001		
02/13/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	Invalid Data						0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
02/14/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Invalid Data				0.000	Invalid Data			0.299	0.305	0.305	0.305	0.305	0.305	0.305	
02/15/2014	0.306	0.306	0.307	0.307	0.308	0.308	0.307	0.306	0.304	0.304	0.302	0.302	0.302	0.304	0.305	0.307	0.307	0.306	0.305	0.305	0.304	0.303	0.303	0.304		
02/16/2014	0.305	0.305	0.305	0.306	0.307	0.307	0.218	0.115	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
02/17/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000		
02/18/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Invalid Data						0.000	Unit o/s									
02/19/2014	Unit o/s																									
02/20/2014	Unit o/s																									
02/21/2014	Unit o/s				0.028	0.026	0.018	0.003	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.001	0.002	0.003	0.005	0.006	0.008		
02/22/2014	0.009	0.009	0.008	0.007	0.006	0.006	0.007	0.007	0.006	0.005	0.004	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.002	0.002		
02/23/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		
02/24/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001		
02/25/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		
02/26/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		
02/27/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000		
02/28/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001		

3-Hour Rolling Average

Unit 1 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Cardinal Power Plant
 Generated: 02/20/2015 15:46 Location: Brilliant, OH
 Tag Name: U1_PM_3H_LbPerMBtu_1H

Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
03/01/2014	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
03/02/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
03/03/2014	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
03/04/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
03/05/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	
03/06/2014	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
03/07/2014	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
03/08/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	Invalid Data				0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
03/09/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
03/10/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	Unit o/s					
03/11/2014	Unit o/s												0.014	0.005	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000
03/12/2014	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	
03/13/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
03/14/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
03/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
03/16/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	Invalid Data			0.001	
03/17/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
03/18/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
03/19/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
03/20/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
03/21/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
03/22/2014	0.001	0.002																							
03/23/2014																									
03/24/2014																									
03/25/2014																									
03/26/2014																									
03/27/2014	Unit o/s																								
03/28/2014																									
03/29/2014																									
03/30/2014																									
03/31/2014																									

3-Hour Rolling Average

Unit 1 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Cardinal Power Plant
 Generated: 02/20/2015 15:46 Location: Brilliant, OH
 Tag Name: U1_PM_3H_LbPerMBtu_1H

Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
04/01/2014																								
04/02/2014																								
04/03/2014																								
04/04/2014																								
04/05/2014																								
04/06/2014																								
04/07/2014																								
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Unit o/s

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Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
05/01/2014																								
05/02/2014																								
05/03/2014																								
05/04/2014																								
05/05/2014																								
05/06/2014																								
05/07/2014																								
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Unit o/s

3-Hour Rolling Average

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Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23										
06/01/2014	Unit o/s																																	
06/02/2014	Unit o/s																																	
06/03/2014	Unit o/s																																	
06/04/2014	Unit o/s																																	
06/05/2014	Unit o/s																																	
06/06/2014	Unit o/s																																	
06/07/2014	Unit o/s																																	
06/08/2014	Unit o/s																																	
06/09/2014	Unit o/s																																	
06/10/2014	Unit o/s																																	
06/11/2014	0.109	0.104	0.099	0.082	0.053	0.041	0.034	0.029	0.026	0.027	0.029	0.030	0.030	0.029	0.028	0.027	0.029	0.030	0.031	0.030	0.028	0.028	0.028											
06/12/2014	0.029	0.028	0.027	0.026	0.029	0.029	0.030	0.028	0.028	0.027	0.026	0.026	0.025	0.024	0.025	0.027	0.028	0.027	0.025	0.024	0.022	0.021	0.021	0.020										
06/13/2014	0.019	0.017	0.015	0.015	0.015	0.014	0.014	0.014	0.014	0.014	0.011	0.006	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.004	0.006	0.006										
06/14/2014	0.007	Unit o/s																																
06/15/2014	Unit o/s																																	
06/16/2014	Unit o/s																																	
06/17/2014	Unit o/s																																	
06/18/2014	Unit o/s																																	
06/19/2014	Unit o/s																																	
06/20/2014	Unit o/s																																	
06/21/2014	Unit o/s																																	
06/22/2014	Unit o/s																																	
06/23/2014	Unit o/s																						2.190											
06/24/2014	1.753	1.421	1.083	1.096	1.119	1.090	Invalid Data					0.268	0.246	0.239	0.272	0.311	0.324	0.224	0.110	0.014	0.006	0.007	0.008											
06/25/2014	0.007	0.007	0.005	0.005	0.008	Unit o/s																	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
06/26/2014	Unit o/s				0.010	Invalid Data				Unit o/s			Invalid Data				0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002								
06/27/2014	0.002	0.002	0.003	0.003	0.003	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003										
06/28/2014	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	Unit o/s			Invalid Data			0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.005									
06/29/2014	0.005	0.004	0.003	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.004	0.004	0.005	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.004	0.004	0.004										
06/30/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	Invalid Data			0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004									

3-Hour Rolling Average

Unit 1 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Cardinal Power Plant
 Generated: 02/20/2015 15:46 Location: Brilliant, OH
 Tag Name: U1_PM_3H_LbPerMBtu_1H

Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
07/01/2014	0.004	0.004	0.004	0.004	0.004	0.004	Invalid Data									0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004		
07/02/2014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003		
07/03/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.005	0.005	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004		
07/04/2014	0.003	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.003	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.006		
07/05/2014	0.007	0.010	0.008	0.006	0.003	0.003	0.003	0.003	0.003	0.004	0.006	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005		
07/06/2014	0.005	0.006	0.007	0.007	0.007	0.008	0.019	0.046	0.070	0.083	0.080	0.079	0.078	0.079	0.077	0.065	0.051	0.037	0.034	0.032	0.033	0.034	0.035	0.035	0.035		
07/07/2014	0.036	0.038	0.039	0.040	0.040	0.039	0.038	0.036	0.035	0.036	0.037	0.038	0.039	0.039	0.039	0.039	0.039	0.039	0.038	0.038	0.037	0.035	0.035	0.035	0.035		
07/08/2014	0.035	0.035	0.034	0.034	0.033	0.032	0.030	0.037	0.052	0.069	0.076	0.077	0.076	0.074	0.072	0.068	0.066	0.064	0.065	0.065	0.065	0.067	0.069	0.069	0.069		
07/09/2014	0.068	0.067	0.067	0.074	0.088	0.098	0.099	0.093	0.092	0.092	0.091	0.087	0.085	0.084	0.084	0.080	0.076	0.074	0.073	0.069	0.067	0.067	0.069	0.067	0.067		
07/10/2014	0.064	0.062	0.060	0.058	0.058	0.061	0.066	0.070	0.070	0.068	0.067	0.070	Invalid Data			0.069	0.071	0.069	0.066	0.062	0.061	0.062	0.063	0.063	0.063		
07/11/2014	0.060	0.053	0.047	0.041	0.041	0.040	0.040	0.041	0.043	0.046	0.046	0.043	0.040	0.036	0.033	0.032	0.030	0.029	0.027	0.028	0.029	0.030	0.030	0.029	0.029		
07/12/2014	0.029	0.030	0.032	0.034	0.037	0.039	0.037	0.035	0.034	0.035	0.035	0.034	0.033	0.033	0.033	0.034	0.034	0.035	0.036	0.036	0.034	0.032	0.032	0.032	0.032		
07/13/2014	0.032	0.031	0.031	0.031	0.031	0.029	0.032	0.038	0.045	0.048	0.049	0.049	0.049	0.048	0.046	0.045	0.044	0.043	0.040	0.037	0.035	0.034	0.034	0.033	0.033		
07/14/2014	0.032	0.032	0.032	0.032	0.032	0.032	0.033	0.034	0.034	0.024	0.012	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001		
07/15/2014	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	Unit o/s								0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
07/16/2014	0.001	0.001	0.001	0.003	0.005	0.007	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.006	0.006		
07/17/2014	0.006	0.007	0.007	0.008	0.008	0.007	0.007	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005		
07/18/2014	0.005	0.006	0.006	0.007	0.007	0.006	0.005	0.005	0.005	Invalid Data			0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005		
07/19/2014	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.008	0.008	0.008	0.008	0.008		
07/20/2014	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.008	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.007		
07/21/2014	0.008	0.009	0.010	0.010	0.010	0.010	0.009	0.008	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006		
07/22/2014	0.006	0.007	0.008	0.008	0.009	0.009	0.008	0.007	0.006	0.006	0.006	0.006	0.006														
07/23/2014																											
07/24/2014																											
07/25/2014																											
07/26/2014																											
07/27/2014	Invalid Data																										
07/28/2014																											
07/29/2014																											
07/30/2014																											
07/31/2014	Unit o/s																										

3-Hour Rolling Average

Unit 1 - PM CEMS (lb/MBtu)



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 Generated: 02/20/2015 15:46 Location: Brilliant, OH
 Tag Name: U1_PM_3H_LbPerMBtu_1H

Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
08/01/2014	Unit o/s																							
08/02/2014																								
08/03/2014																								
08/04/2014	Invalid Data																							
08/05/2014																								
08/06/2014																								
08/07/2014																								
08/08/2014																								
08/09/2014																								
08/10/2014																								
08/11/2014																								
08/12/2014																								
08/13/2014																								
08/14/2014																								
08/15/2014																								
08/16/2014																								
08/17/2014	Unit o/s																							
08/18/2014																								
08/19/2014																								
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08/21/2014																								
08/22/2014																								
08/23/2014																								
08/24/2014																								
08/25/2014																								
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Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
09/01/2014																								
09/02/2014																								
09/03/2014																								
09/04/2014																								
09/05/2014																								
09/06/2014																								
09/07/2014																								
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09/26/2014																								
09/27/2014																								
09/28/2014																								
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09/30/2014																								

Invalid Data

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Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
10/01/2014	Invalid Data																							
10/02/2014	Invalid Data																							
10/03/2014	Invalid Data																							
10/04/2014	Invalid Data																							
10/05/2014	Invalid Data																							
10/06/2014	Invalid Data																							
10/07/2014	Invalid Data																							
10/08/2014	Invalid Data																							
10/09/2014	Invalid Data																					0.004	0.002	
10/10/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.004	0.005	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
10/11/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002
10/12/2014	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
10/13/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002
10/14/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002
10/15/2014	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
10/16/2014	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002
10/17/2014	0.002	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002
10/18/2014	0.002	0.002	0.002	0.001	0.001	0.002	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
10/19/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002
10/20/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.003	0.003
10/21/2014	0.003	0.003	0.002	0.002	0.002	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
10/22/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
10/23/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
10/24/2014	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002
10/25/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
10/26/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	Invalid Data				0.002	0.002	
10/27/2014	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	Invalid Data			0.003	0.003	0.003	0.003	Invalid Data			0.003	0.003	0.003	0.003	0.003	0.003
10/28/2014	0.002	Invalid Data			0.002	0.002	0.003	0.003	0.003	0.003	0.003	Invalid Data			0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002
10/29/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
10/30/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
10/31/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	Invalid Data				0.002	0.002	0.002	

3-Hour Rolling Average

Unit 1 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Cardinal Power Plant
 Generated: 02/20/2015 15:46 Location: Brilliant, OH
 Tag Name: U1_PM_3H_LbPerMBtu_1H

Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
11/01/2014	0.002	0.002	0.002	0.002	0.002	0.002	Invalid Data			0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	Invalid Data						
11/02/2014	Invalid Data					0.001	Invalid Data						0.001	Invalid Data							0.002	Invalid Data				
11/03/2014	Invalid Data																0.001	0.001	0.001							
11/04/2014	Invalid Data																									
11/05/2014		0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	Invalid Data			0.002	0.002	0.002	0.002	0.002	0.002		
11/06/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	Invalid Data			0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002		
11/07/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002		
11/08/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	Invalid Data			0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002		
11/09/2014	0.002	0.002	0.002	Invalid Data			0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002		
11/10/2014	0.002	0.002	0.002	Invalid Data			0.002	Invalid Data			0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002		
11/11/2014	0.002	0.002	0.002	0.002	0.002	Invalid Data			0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002		
11/12/2014	0.002	0.002	0.002	0.002	0.002	Invalid Data			0.002	0.002	Invalid Data			0.002	0.002	Invalid Data										
11/13/2014	0.002	0.002	Invalid Data			0.002	0.001	0.001	Invalid Data			0.001	0.001	Invalid Data			0.001	0.001	Invalid Data							
11/14/2014	Invalid Data														0.002	Invalid Data						0.002	0.002	0.002		
11/15/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002		
11/16/2014	0.002	Invalid Data			0.002																					
11/17/2014																										
11/18/2014																										
11/19/2014																										
11/20/2014																										
11/21/2014	Invalid Data																									
11/22/2014																										
11/23/2014																										
11/24/2014																										
11/25/2014																										
11/26/2014	0.004	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.005	0.018		
11/27/2014																										
11/28/2014	Unit o/s																									
11/29/2014																										
11/30/2014																										

3-Hour Rolling Average

Unit 1 - PM CEMS (lb/MBtu)



We power life's possibilities™

From: 01/01/2014 00:00 To: 12/31/2014 23:59 Facility Name: Cardinal Power Plant
 Generated: 02/20/2015 15:46 Location: Brilliant, OH
 Tag Name: U1_PM_3H_LbPerMBtu_1H

Unit o/s = Unit is out of service for at least 1Hr of the 3Hr Rolling Average

Date/Time	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
12/01/2014	Unit o/s																								
12/02/2014	Unit o/s																								
12/03/2014	Unit o/s																								
12/04/2014	Unit o/s																								
12/05/2014	Unit o/s																								
12/06/2014	Unit o/s																								
12/07/2014	Unit o/s																								
12/08/2014	Unit o/s																								
12/09/2014	Unit o/s																								
12/10/2014	Unit o/s																								
12/11/2014	Unit o/s																								
12/12/2014	Unit o/s																								
12/13/2014	Unit o/s														0.010	0.019	0.021	0.013	0.006	0.005	0.003	0.002	0.002	0.001	
12/14/2014	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.003	0.003	0.002	0.002	0.002	
12/15/2014	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.002
12/16/2014	0.002	0.002	0.001	0.001	0.001	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12/17/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12/18/2014	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12/19/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/20/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/21/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/22/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/23/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/24/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000
12/25/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/26/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/27/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12/28/2014	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/29/2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.001	0.001	0.001	0.001
12/30/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12/31/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001

Exhibit C

2014 Annual Fuel Data Report

Exhibit C

Annual As-Burned Coal Information; Data Source: FDR Database via Enviance

AEP Plant/Unit	Coal Consumed Tons	HEAT CONTENT BTU/lb	MOISTURE %	ASH %	SULFUR %	SULFUR lbSO2/MMBtu
KPCo\Big Sandy\Unit 1						
Yr 2014	467,213	11,406	9.06	13.47	1.02	1.70
APCo\Glen Lyn\Unit 5						
Yr 2014	9,689	11,922	7.71	10.54	0.87	1.39
APCo\Glen Lyn\Unit 6						
Yr 2014	30,649	11,583	9.23	10.08	0.99	1.62
APCo\Kanawha River\Unit 1						
Yr 2014	322,010	11,915	8.01	12.53	0.85	1.36
APCo\Kanawha River\Unit 2						
Yr 2014	332,015	11,901	8.10	12.49	0.85	1.36
IMPCo\Tanners Creek\Unit 1						
Yr 2014	57,789	11,879	7.69	12.66	0.71	1.14
IMPCo\Tanners Creek\Unit 2						
Yr 2014	116,730	12,002	7.65	12.09	0.69	1.09
IMPCo\Tanners Creek\Unit 3						
Yr 2014	277,595	12,103	7.30	11.99	0.70	1.10
IMPCo\Tanners Creek\Unit 4						
Yr 2014	860,961	9,648	23.08	6.31	0.70	1.38

Created: 03/10/2015 7:00 PM
 Dates: 01/01/2014 to 12/31/2014

Exhibit D

2014 Removal Efficiencies at Conesville Units 5 + 6

REMOVAL EFFICIENCIES

CONESVILLE UNIT 5

2014

2014 Unit 5 30-Day Rolling Average				
Scrubber Efficiency				
		Daily Efficiency	30-day Rolling Average	30-Day Rolling Average
		%	%	> or = 95%?
January	1	98.0	97.1	YES
	2	97.0	97.1	YES
	3	95.4	97.0	YES
	4	95.9	97.0	YES
	5	96.4	97.0	YES
	6	95.9	96.9	YES
	7	94.5	96.8	YES
	8	96.2	96.8	YES
	9	96.7	96.8	YES
	10	96.9	96.8	YES
	11	97.3	96.8	YES
	12	97.0	96.9	YES
	13	96.8	96.9	YES
14	Unit Out of Service			
15				
16				
	17	90.2	96.6	YES
	18	96.4	96.6	YES
	19	97.1	96.6	YES
	20	97.0	96.6	YES
	21	96.9	96.6	YES
	22	97.1	96.6	YES
	23	97.0	96.6	YES
	24	96.9	96.6	YES
	25	97.2	96.6	YES
	26	Unit 5 On-line 00:00-23:59 - SO2 Data Invalid		
	27	96.8	96.6	YES
	28	97.0	96.6	YES
	29	97.3	96.6	YES
	30	97.2	96.6	YES
	31	96.9	96.6	YES
February	1	96.9	96.5	YES
	2	96.9	96.5	YES
	3	96.7	96.5	YES
	4	96.7	96.5	YES
	5	96.7	96.5	YES
	6	96.9	96.5	YES
	7	96.3	96.5	YES
	8	96.1	96.5	YES
	9	96.2	96.5	YES
	10	95.7	96.6	YES
	11	96.3	96.6	YES
	12	96.5	96.6	YES
	13	96.9	96.6	YES
	14	96.4	96.5	YES
	15	96.7	96.5	YES
	16	96.5	96.5	YES
	17	97.0	96.7	YES
	18	97.1	96.8	YES
19	97.6	96.8	YES	
20	97.9	96.8	YES	
21	97.8	96.8	YES	
22	97.5	96.9	YES	
23	97.5	96.9	YES	
24	97.6	96.9	YES	
25	97.5	96.9	YES	
26	97.2	96.9	YES	
27	96.3	96.9	YES	
28	96.1	96.9	YES	

2014 Unit 5 30-Day Rolling Average				
Scrubber Efficiency				
				30-Day Rolling Average > or = 95%?
March	1	96.4	96.8	YES
	2	96.2	96.8	YES
	3	97.2	96.8	YES
	4	97.7	96.8	YES
	5	97.5	96.9	YES
	6	97.4	96.9	YES
	7	97.8	96.9	YES
	8	97.6	97.0	YES
	9	98.0	97.0	YES
	10	97.2	97.0	YES
	11	97.3	97.1	YES
	12	97.2	97.1	YES
	13	97.7	97.2	YES
	14	98.3	97.2	YES
	15	98.3	97.3	YES
	16	97.3	97.3	YES
	17	96.6	97.3	YES
	18	96.4	97.3	YES
	19	Unit Out of Service		
20				
21				
	22	63.3	96.2	YES
	23	98.5	96.2	YES
	24	96.7	96.2	YES
	25	95.6	96.1	YES
	26	96.0	96.1	YES
	27	97.2	96.1	YES
	28	97.5	96.1	YES
	29	97.0	96.0	YES
	30	97.0	96.0	YES
	31	96.9	96.0	YES
April	1	96.9	96.0	YES
	2	97.1	96.1	YES
	3	97.1	96.1	YES
	4	97.2	96.1	YES
	5	97.5	96.1	YES
	6	97.5	96.1	YES
	7	97.0	96.1	YES
	8	97.2	96.1	YES
	9	97.0	96.1	YES
	10	97.2	96.1	YES
	11	97.2	96.0	YES
	12	97.1	96.0	YES
	13	97.4	96.0	YES
	14	96.9	96.0	YES
	15	97.0	96.0	YES
	16	97.9	96.0	YES
	17	97.6	96.0	YES
	18	97.9	96.0	YES
	19	97.8	96.0	YES
	20	98.1	96.1	YES
	21	97.7	97.2	YES
	22	97.6	97.2	YES
	23	97.4	97.2	YES
	24	96.7	97.3	YES
	25	96.5	97.3	YES
	26	97.2	97.3	YES
	27	97.4	97.3	YES
	28	97.9	97.3	YES
	29	97.4	97.3	YES
	30	95.2	97.3	YES

2014 Unit 5 30-Day Rolling Average				
Scrubber Efficiency				
				30-Day Rolling Average > or = 95%?
May	1	97.8	97.3	YES
	2	97.7	97.3	YES
	3	97.8	97.3	YES
	4	97.7	97.3	YES
	5	97.5	97.3	YES
	6	97.6	97.3	YES
	7	97.7	97.4	YES
	8	97.6	97.4	YES
	9	97.7	97.4	YES
	10	98.0	97.4	YES
	11	97.9	97.5	YES
	12	97.5	97.5	YES
	13	97.4	97.5	YES
	14	97.8	97.5	YES
	15	97.9	97.5	YES
	16	97.8	97.5	YES
	17	97.0	97.5	YES
	18	97.3	97.5	YES
	19	96.9	97.5	YES
20	Unit Out of Service			
21	Unit Out of Service			
	22	94.2	97.3	YES
	23	96.8	97.3	YES
	24	97.3	97.3	YES
	25	97.5	97.3	YES
	26	97.1	97.3	YES
	27	96.9	97.3	YES
	28	97.1	97.3	YES
	29	97.5	97.3	YES
	30	97.5	97.3	YES
	31	97.6	97.3	YES
June	1	97.4	97.4	YES
	2	97.3	97.4	YES
	3	97.5	97.4	YES
	4	97.4	97.3	YES
	5	96.9	97.3	YES
	6	96.2	97.3	YES
	7	96.4	97.2	YES
	8	96.4	97.2	YES
	9	97.0	97.2	YES
	10	97.9	97.2	YES
	11	97.6	97.2	YES
	12	97.8	97.2	YES
	13	97.9	97.2	YES
	14	98.0	97.2	YES
	15	97.4	97.2	YES
	16	97.0	97.2	YES
	17	96.9	97.1	YES
	18	96.6	97.1	YES
	19	97.0	97.1	YES
	20	97.9	97.1	YES
21	Unit Out of Service			
22	Unit Out of Service			
23	Unit Out of Service			
24	Unit Out of Service			
25	Unit Out of Service			
26	Unit Out of Service			
27	Unit Out of Service			
	28	94.3	97.1	YES
	29	96.2	97.1	YES
	30	97.3	97.1	YES

2014 Unit 5 30-Day Rolling Average				
Scrubber Efficiency				
			30-Day Rolling Average	
			> or = 95%?	
July	1	97.1	97.1	YES
	2	97.3	97.1	YES
	3	97.5	97.1	YES
	4	96.9	97.1	YES
	5	97.0	97.1	YES
	6	96.7	97.1	YES
	7	96.5	97.0	YES
	8	98.1	97.1	YES
	9	97.6	97.1	YES
	10	97.5	97.1	YES
	11	97.1	97.1	YES
	12	97.2	97.1	YES
	13	97.2	97.1	YES
	14	97.7	97.2	YES
	15	97.6	97.2	YES
16	Unit Out of Service			
17				
18				
19	Unit 5 On-line 22:29-23:59 - SO2 Data Invalid			
20	Unit 5 On-line 22:29-23:59 - SO2 Data Invalid			
21	97.2	97.2	YES	
22	96.7	97.2	YES	
23	97.9	97.2	YES	
24	Unit Out of Service			
25				
26				
27				
28				
29				
30				
31				
August	1	Unit Out of Service		
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
	10			
	11			
	12			
	13			
	14			
	15			
	16			
17	93.7	97.0	YES	
18	95.7	97.0	YES	
19	96.7	96.9	YES	
20	96.7	96.9	YES	
21	96.9	96.9	YES	
22	96.9	96.9	YES	
23	97.1	96.9	YES	
24	96.9	96.9	YES	
25	97.0	96.9	YES	
26	97.4	97.0	YES	
27	97.4	97.0	YES	
28	97.8	97.0	YES	
29	97.9	97.1	YES	
30	96.8	97.0	YES	
31	97.3	97.0	YES	

2014 Unit 5 30-Day Rolling Average				
Scrubber Efficiency				
				30-Day Rolling Average > or = 95%?
September	1	97.4	97.1	YES
	2	95.9	97.0	YES
	3	95.9	97.0	YES
	4	96.4	97.0	YES
	5	96.2	96.9	YES
	6	96.7	96.9	YES
	7	96.7	96.9	YES
	8	96.8	96.9	YES
	9	97.0	96.9	YES
	10	96.8	96.8	YES
11	Unit Out of Service			
12				
13				
14				
15	95.8	96.8	YES	
16	Unit Out of Service			
17				
18				
19				
20				
21	99.4	96.8	YES	
22	96.9	96.8	YES	
23	98.0	96.9	YES	
24	97.0	96.8	YES	
25	96.8	96.9	YES	
26	96.7	97.0	YES	
27	96.6	97.0	YES	
28	95.8	96.9	YES	
29	95.1	96.9	YES	
30	95.7	96.8	YES	
October	1	95.5	96.8	YES
	2	95.7	96.7	YES
	3	97.0	96.7	YES
	4	97.6	96.8	YES
	5	Unit Out of Service		
	6	97.5	96.8	YES
	7	95.5	96.7	YES
	8	96.4	96.6	YES
	9	95.5	96.6	YES
	10	96.6	96.6	YES
	11	96.8	96.5	YES
	12	97.8	96.6	YES
	13	97.1	96.6	YES
	14	96.5	96.7	YES
	15	97.1	96.7	YES
	16	97.8	96.7	YES
	17	97.5	96.7	YES
	18	Unit Out of Service		
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				

2014 Unit 5 30-Day Rolling Average				
Scrubber Efficiency				
			30-Day Rolling Average > or = 95%?	
November	1	Unit Out of Service		
	2			
	3			
	4			
	5			
	6			
	7			
	8	Unit 5 On-line 22:05-23:59 - SO2 Data Invalid		
	9	97.3	96.8	YES
	10	96.4	96.7	YES
	11	96.2	96.7	YES
	12	96.5	96.7	YES
	13	96.8	96.7	YES
	14	97.1	96.7	YES
	15	97.2	96.6	YES
	16	97.9	96.7	YES
	17	97.7	96.7	YES
	18	97.4	96.7	YES
	19	97.4	96.7	YES
	20	97.8	96.8	YES
	21	97.6	96.9	YES
	22	98.1	97.0	YES
	23	98.6	97.1	YES
	24	98.6	97.2	YES
	25	98.0	97.2	YES
	26	97.8	97.2	YES
	27	98.1	97.2	YES
	28	96.7	97.3	YES
	29	97.4	97.3	YES
	30	97.8	97.4	YES
December	1	96.8	97.4	YES
	2	96.7	97.4	YES
	3	96.6	97.4	YES
	4	96.5	97.3	YES
	5	96.8	97.3	YES
	6	97.2	97.3	YES
	7	97.3	97.3	YES
	8	96.6	97.3	YES
	9	97.0	97.3	YES
	10	97.2	97.3	YES
	11	97.1	97.3	YES
	12	96.6	97.3	YES
	13	97.4	97.4	YES
	14	97.6	97.4	YES
	15	97.1	97.4	YES
	16	97.3	97.4	YES
	17	96.6	97.3	YES
	18	96.3	97.3	YES
	19	96.3	97.3	YES
	20	96.4	97.2	YES
	21	96.7	97.2	YES
	22	96.0	97.1	YES
	23	96.3	97.0	YES
	24	96.3	97.0	YES
	25	97.4	96.9	YES
	26	Unit Out of Service		
	27	Unit Out of Service		
	28	Unit Out of Service		
	29	94.3	96.8	YES
	30	97.3	96.8	YES
	31	96.8	96.8	YES
	Minimum =	96.0	YES	

REMOVAL EFFICIENCIES

CONESVILLE UNIT 6

2014

2014 Unit 6 30-Day Rolling Average					
Scrubber Efficiency					
		Daily Efficiency	30-day Rolling Average	30-Day Rolling Average	
		%	%	> or = 95%	
January	1	97.9	97.3	YES	
	2	97.8	97.3	YES	
	3	97.2	97.3	YES	
	4	97.7	97.3	YES	
	5	98.2	97.3	YES	
	6	97.8	97.3	YES	
	7	97.7	97.3	YES	
	8	97.9	97.4	YES	
	9	Unit Out of Service			
	10				
	11				
	12				
	13	92.6	97.3	YES	
	14	96.8	97.3	YES	
	15	97.0	97.3	YES	
	16	97.3	97.3	YES	
	17	97.5	97.3	YES	
	18	97.4	97.2	YES	
	19	97.9	97.3	YES	
	20	97.4	97.3	YES	
	21	97.6	97.3	YES	
	22	97.5	97.3	YES	
	23	97.0	97.3	YES	
	24	96.8	97.3	YES	
	25	96.9	97.3	YES	
	26	97.2	97.3	YES	
	27	97.3	97.3	YES	
	28	97.1	97.3	YES	
	29	97.3	97.3	YES	
	30	97.3	97.3	YES	
	31	97.4	97.3	YES	
February	1	97.3	97.3	YES	
	2	95.9	97.2	YES	
	3	96.2	97.2	YES	
	4	96.4	97.1	YES	
	5	96.3	97.1	YES	
	6	96.6	97.0	YES	
	7	96.4	97.0	YES	
	8	95.9	96.9	YES	
	9	96.6	96.9	YES	
	10	96.6	96.8	YES	
	11	96.4	96.8	YES	
	12	96.4	96.9	YES	
	13	96.4	96.9	YES	
	14	96.4	96.9	YES	
	15	96.3	96.9	YES	
	16	96.6	96.8	YES	
	17	96.4	96.8	YES	
	18	96.9	96.8	YES	
	19	97.3	96.8	YES	
	20	97.3	96.7	YES	
	21	97.3	96.7	YES	
	22	97.4	96.8	YES	
	23	97.4	96.8	YES	
	24	97.1	96.8	YES	
	25	84.4	96.4	YES	
	26	96.3	96.3	YES	
	27	96.3	96.3	YES	
	28	96.7	96.3	YES	

2014 Unit 6 30-Day Rolling Average					
Scrubber Efficiency					
				30-Day Rolling Average	
				> or = 95%	
March	1	96.3	96.2	YES	
	2	97.0	96.2	YES	
	3	97.2	96.2	YES	
	4	97.2	96.3	YES	
	5	97.2	96.3	YES	
	6	97.2	96.3	YES	
	7	Unit Out of Service			
	8	89.2	96.1	YES	
	9	97.4	96.1	YES	
	10	96.8	96.1	YES	
	11	96.7	96.2	YES	
	12	96.8	96.2	YES	
	13	96.9	96.2	YES	
	14	97.0	96.2	YES	
	15	97.0	96.2	YES	
	16	96.9	96.2	YES	
	17	96.8	96.2	YES	
	18	97.0	96.3	YES	
	19	96.8	96.3	YES	
	20	97.0	96.3	YES	
	21	97.2	96.3	YES	
	22	97.4	96.3	YES	
	23	97.3	96.3	YES	
	24	97.1	96.3	YES	
	25	96.6	96.3	YES	
	26	96.8	96.3	YES	
	27	96.7	96.2	YES	
	28	97.0	96.7	YES	
	29	97.2	96.7	YES	
	30	97.1	96.7	YES	
	31	97.0	96.7	YES	
April	1	96.7	96.7	YES	
	2	96.3	96.7	YES	
	3	96.5	96.7	YES	
	4	96.3	96.7	YES	
	5	96.8	96.7	YES	
	6	96.7	96.6	YES	
	7	96.9	96.9	YES	
	8	96.7	96.9	YES	
	9	96.7	96.9	YES	
	10	96.5	96.9	YES	
	11	96.5	96.8	YES	
	12	96.7	96.8	YES	
	13	96.7	96.8	YES	
	14	96.7	96.8	YES	
	15	95.9	96.8	YES	
	16	96.3	96.8	YES	
	17	96.6	96.8	YES	
	18	96.7	96.8	YES	
	19	96.7	96.7	YES	
	20	96.4	96.7	YES	
	21	96.6	96.7	YES	
	22	96.7	96.7	YES	
	23	96.4	96.6	YES	
	24	96.0	96.6	YES	
	25	96.3	96.6	YES	
	26	96.7	96.6	YES	
	27	96.8	96.6	YES	
	28	96.5	96.6	YES	
	29	96.5	96.6	YES	
	30	96.3	96.5	YES	

2014 Unit 6 30-Day Rolling Average				
Scrubber Efficiency				
				30-Day Rolling Average
				> or = 95%
May	1	96.5	96.5	YES
	2	96.5	96.5	YES
	3	96.5	96.5	YES
	4	96.4	96.5	YES
	5	96.3	96.5	YES
	6	96.5	96.5	YES
	7	96.7	96.5	YES
	8	96.4	96.5	YES
	9	96.8	96.5	YES
	10	96.9	96.5	YES
	11	96.8	96.5	YES
	12	96.2	96.5	YES
	13	97.2	96.5	YES
	14	97.9	96.6	YES
	15	96.8	96.6	YES
	16	96.9	96.6	YES
	17	96.9	96.6	YES
	18	96.9	96.6	YES
	19	96.8	96.6	YES
	20	96.5	96.6	YES
	21	96.9	96.7	YES
	22	97.2	96.7	YES
	23	97.5	96.7	YES
	24	97.5	96.8	YES
	25	97.3	96.8	YES
	26	96.9	96.8	YES
	27	97.0	96.8	YES
	28	97.1	96.8	YES
	29	96.3	96.8	YES
	30	96.2	96.8	YES
	31	96.5	96.8	YES
June	1	96.5	96.8	YES
	2	96.6	96.8	YES
	3	97.2	96.8	YES
	4	97.3	96.9	YES
	5	97.7	96.9	YES
	6	97.0	96.9	YES
	7	96.9	96.9	YES
	8	96.9	96.9	YES
	9	96.6	96.9	YES
	10	97.2	96.9	YES
	11	96.8	97.0	YES
	12	97.2	97.0	YES
	13	97.3	96.9	YES
	14	97.3	97.0	YES
	15	97.0	97.0	YES
	16	96.8	97.0	YES
	17	96.9	97.0	YES
	18	96.8	97.0	YES
	19	96.7	97.0	YES
	20	96.2	96.9	YES
	21	96.3	96.9	YES
	22	96.3	96.9	YES
	23	96.4	96.8	YES
	24	96.3	96.8	YES
	25	96.3	96.8	YES
	26	96.4	96.8	YES
	27	96.4	96.7	YES
	28	96.5	96.8	YES
	29	96.5	96.8	YES
	30	96.6	96.8	YES

2014 Unit 6 30-Day Rolling Average					
Scrubber Efficiency					
				30-Day Rolling Average	
				> or = 95%	
July	1	96.5	96.8	YES	
	2	96.9	96.8	YES	
	3	97.0	96.8	YES	
	4	97.2	96.8	YES	
	5	97.1	96.7	YES	
	6	97.0	96.7	YES	
	7	96.6	96.7	YES	
	8	97.1	96.7	YES	
	9	96.8	96.7	YES	
	10	96.9	96.7	YES	
	11	Unit Out of Service			
	12	Unit Out of Service			
	13	94.6	96.7	YES	
	14	97.1	96.7	YES	
	15	97.7	96.7	YES	
	16	97.7	96.7	YES	
	17	97.8	96.7	YES	
	18	97.9	96.8	YES	
	19	97.4	96.8	YES	
	20	97.2	96.8	YES	
	21	96.7	96.8	YES	
	22	96.6	96.8	YES	
	23	97.3	96.8	YES	
	24	97.6	96.9	YES	
	25	97.6	96.9	YES	
	26	97.4	96.9	YES	
	27	97.4	97.0	YES	
	28	97.4	97.0	YES	
	29	97.5	97.1	YES	
	30	97.3	97.1	YES	
	31	97.0	97.1	YES	
August	1	97.0	97.1	YES	
	2	96.9	97.1	YES	
	3	96.9	97.1	YES	
	4	96.7	97.1	YES	
	5	97.1	97.1	YES	
	6	97.2	97.1	YES	
	7	97.5	97.1	YES	
	8	97.5	97.2	YES	
	9	97.3	97.2	YES	
	10	96.9	97.2	YES	
	11	97.0	97.2	YES	
	12	97.1	97.3	YES	
	13	97.3	97.3	YES	
	14	97.3	97.3	YES	
	15	97.0	97.2	YES	
	16	96.9	97.2	YES	
	17	96.8	97.2	YES	
	18	96.7	97.1	YES	
	19	97.1	97.1	YES	
	20	97.1	97.1	YES	
	21	97.2	97.2	YES	
	22	96.7	97.1	YES	
	23	97.4	97.1	YES	
	24	97.0	97.1	YES	
	25	97.0	97.1	YES	
	26	96.8	97.1	YES	
	27	96.7	97.1	YES	
	28	96.8	97.0	YES	
	29	97.3	97.0	YES	
	30	96.7	97.0	YES	
	31	97.4	97.0	YES	

2014 Unit 6 30-Day Rolling Average					
Scrubber Efficiency					
				30-Day Rolling Average	
				> or = 95%	
September	1	97.1	97.1	YES	
	2	97.3	97.1	YES	
	3	96.9	97.1	YES	
	4	96.9	97.1	YES	
	5	96.6	97.0	YES	
	6	96.2	97.0	YES	
	7	96.8	97.0	YES	
	8	96.2	96.9	YES	
	9	96.1	96.9	YES	
	10	96.5	96.9	YES	
	11	96.0	96.9	YES	
	12	96.3	96.8	YES	
	13	96.3	96.8	YES	
	14	96.8	96.8	YES	
	15	96.8	96.8	YES	
	16	97.1	96.8	YES	
	17	97.3	96.8	YES	
	18	97.3	96.8	YES	
	19	97.2	96.8	YES	
	20	96.9	96.8	YES	
	21	96.8	96.8	YES	
	22	96.8	96.8	YES	
	23	96.6	96.8	YES	
	24	96.2	96.8	YES	
	25	96.0	96.7	YES	
	26	96.9	96.7	YES	
	27	96.6	96.7	YES	
	28	96.6	96.7	YES	
	29	96.0	96.7	YES	
	30	96.5	96.7	YES	
October	1	96.2	96.6	YES	
	2	96.3	96.6	YES	
	3	96.8	96.6	YES	
	4	97.1	96.6	YES	
	5	97.0	96.6	YES	
	6	96.3	96.6	YES	
	7	96.2	96.6	YES	
	8	96.6	96.6	YES	
	9	96.4	96.6	YES	
	10	97.3	96.6	YES	
	11	94.7	96.6	YES	
	12	96.0	96.6	YES	
	13	95.8	96.6	YES	
	14	96.0	96.5	YES	
	15	96.1	96.5	YES	
	16	96.5	96.5	YES	
	17	96.6	96.5	YES	
	18	96.1	96.4	YES	
	19	96.9	96.4	YES	
	20	96.6	96.4	YES	
	21	97.2	96.4	YES	
	22	Unit Out of Service			
	23	96.5	96.4	YES	
	24	97.5	96.5	YES	
	25	97.8	96.5	YES	
	26	98.3	96.6	YES	
	27	97.6	96.6	YES	
	28	97.2	96.6	YES	
	29	97.3	96.6	YES	
	30	97.3	96.7	YES	
	31	97.4	96.7	YES	

2014 Unit 6 30-Day Rolling Average							
Scrubber Efficiency							
			30-Day Rolling Average > or = 95%				
November	1	97.1	96.8	YES			
	2	97.3	96.8	YES			
	3	97.3	96.8	YES			
	4	97.2	96.8	YES			
	5	96.9	96.8	YES			
	6	97.2	96.8	YES			
	7	96.4	96.8	YES			
	8	96.7	96.8	YES			
	9	96.5	96.8	YES			
	10	96.8	96.8	YES			
	11	96.5	96.9	YES			
	12	97.2	96.9	YES			
	13	97.3	97.0	YES			
	14	97.1	97.0	YES			
	15	97.2	97.1	YES			
	16	97.2	97.1	YES			
	17	97.4	97.1	YES			
	18	97.0	97.1	YES			
	19	97.1	97.1	YES			
	20	97.0	97.2	YES			
	21	97.1	97.1	YES			
22	Unit Out of Service						
23							
24							
25							
26							
27							
28							
29							
30							
December				1	Unit Out of Service		
	2						
	3						
	4						
	5						
	6	99.0	97.2	YES			
	7	97.1	97.2	YES			
	8	96.8	97.2	YES			
	9	96.8	97.1	YES			
	10	97.1	97.1	YES			
	11	97.5	97.1	YES			
	12	97.0	97.1	YES			
	13	97.6	97.1	YES			
	14	97.5	97.1	YES			
	15	97.8	97.2	YES			
16	97.7	97.2	YES				
17	97.0	97.2	YES				
18	96.1	97.1	YES				
19	97.1	97.1	YES				
20	96.4	97.1	YES				
21	96.5	97.1	YES				
22	96.7	97.1	YES				
23	97.0	97.1	YES				
24	96.6	97.1	YES				
25	96.5	97.1	YES				
26	96.2	97.1	YES				
27	96.2	97.0	YES				
28	Unit Out of Service						
29							
30	96.3	97.0	YES				
31	95.7	97.0	YES				
		Minimum =	96.1	YES			

Exhibit E

Edge of Appalachia Project Map

Edge of Appalachia - AEP- Funded Property

