Allegheny Energy
800 Cabin Hill Drive
Greensburg, PA 15601

**CERTIFIED MAIL**
7004 0750 0004 0862 9950

February 27, 2013

Ms. Martha Hynson
Chief, Solid Waste Operations
Maryland Department of the Environment
Land Management Administration
1800 Washington Boulevard, Suite 605
Baltimore, MD 21230-1719

**ALLEGHENY ENERGY SUPPLY COMPANY, LLC**
**R. PAUL SMITH POWER STATION**
**COAL COMBUSTION BYPRODUCTS**
**ANNUAL GENERATOR TONNAGE REPORT 2012RY**

Enclosed is the Coal Combustion Byproducts Annual Generator Tonnage Report for calendar year 2012 for the R. Paul Smith Power Station located in Williamsport, MD.

Should you have any questions or desire additional information, please contact me at 724-838-6066.

Sincerely,

Jennifer Hazen McCloskey

Jennifer Hazen McCloskey, P. E.
Senior Environmental Engineer

Attachment

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MAR 4 2013
SOLID WASTE
OPERATIONS DIVISION

**MARYLAND DEPARTMENT OF THE ENVIRONMENT**
1800 Washington Boulevard • Suite 605 • Baltimore, Maryland 21230-1719
410-537-3375 • 800-633-6101 x3315 • www.mde.state.md.us
Land Management Administration • Solid Waste Program

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# Coal Combustion Byproducts (CCB) Annual Generator Tonnage Report
# Instructions for Calendar Year 2012

The following is general information relating to the requirement for reporting quantities of coal combustion byproducts that were managed in the State of Maryland during calendar year 2012. Please answer the questions on the form provided, attaching additional information and any requested supplemental information to the back of the form. *Note that the form for this year requires both volume and weight of the CCBs produced. If you know one of these parameters but not the others, for example, you have the tonnage produced but not the volume, you may calculate the other parameter; however, please provide the calculations and assumptions that you used in your estimate.* Questions can be directed to the Solid Waste Program at (410) 537-3315 or via email at edexter@mde.state.md.us.

**I. Background.** This requirement that generators of coal combustion byproducts (CCBs) submit an annual report was instituted in the Code of Maryland Regulations COMAR 26.04.10.08, that was promulgated effective December 1, 2008. The regulation requires that any non-residential generator of CCBs submit a report to the Department by March 1 of each year describing the manner in which CCBs generated within the State were managed during the preceding calendar year. Additional information and specific instructions follow. For more detailed information, please refer to COMAR 26.04.10.08.

**II. General Information and Applicability**.

A. Definitions. Coal combustion byproducts are defined in COMAR 26.04.10.02B as:

> *"(3) Coal Combustion Byproducts. (a) "Coal combustion byproducts" means the residue generated by or resulting from the burning of coal.*
> *(b) "Coal combustion byproducts" includes fly ash, bottom ash, boiler slag, pozzolan, and other solid residuals removed by air pollution control devices from the flue gas and combustion chambers of coal burning furnaces and boilers, including flue gas desulfurization sludge and other solid residuals recovered from flue gas by wet or dry methods. "*

A generator of CCBs is defined in COMAR 26.04.10.02B as:

> *"(9) Generator.*
> *(a) "Generator" means a person whose operations, activities, processes, or actions create coal combustion byproducts.*
> *(b) "Generator" does not include a person who only generates coal combustion byproducts by burning coal at a private residence."*

B. Applicability. **If you or your company meets the definition of a generator of CCBs as defined above, you must provide the information as required below.** For the purposes of this report, "you" shall hereinafter refer to the generator defined above. Please note that COMAR 26.04.10.08 requires generators of CCBs to submit an annual report to the Department concerning the disposition of the CCBs that they generated the previous year. **THIS INCLUDES CCBS THAT WERE NOT SEPERATELY COLLECTED BUT WERE PRODUCED BY THE BURNING OF COAL AND WERE DIRECTLY CONTRIBUTED TO A PRODUCT, such as cement.** Where the amount cannot be directly measured, estimates based on the amount of coal burned can be used. The method of determining the volume of CCBs produced must be described.

**III. Required Information.** The following information must be provided to the Department by March 1, 2013:

A. Contact information:

Facility Name: R. Paul Smith Power Station

Name of Permit Holder: Allegheny Energy Supply Company, LLC

Facility Address: 15952 Lockwood Road
Street

Facility Address: Williamsport MD 21795
City State Zip

County: Washington

Contact Information (Person filing report or Environmental Manager)

Facility Telephone No.: 724-838-6066 Facility Fax No.: n/a

Contact Name: Jennifer H. McCloskey, PE

Contact Title: Senior Environmental Engineer

Contact Address: 800 Cabin Hill Drive
Street

Contact Address: Greensburg PA 15601
City State Zip

Contact Email: jmcclos@alleghenyenergy.com or jmcclos@firstenergycorp.com

Contact Telephone No.: 724-838-6066 Contact Fax No.: n/a

*For questions on how to complete this form, please contact the Solid Waste Program at 410-537-3315*

Facility Name: R. Paul Smith Power Station **CCB Tonnage Report – 2012**

B. A description of the process that generates the coal combustion byproducts, including the type of coal or other raw material that generates the coal combustion byproducts. If the space provided is insufficient, please attach additional pages:

The R. Paul Smith Power Station is a steam electric power generating facility which burned eastern bituminous coal in two boilers. Fly ash and bottom ash were generated as a result of this combustoin process. The station used No. 2 Fuel Oil during start up procedures. No other fuel was used. In the fourth quarter 2012, the facility was placed in a long term cold storage status.

C. The volume and weight of coal combustion byproducts generated during calendar year 2012, including an identification of the different types of coal combustion byproducts generated and the volume of each type generated. If the space provided is insufficient, please attach additional pages in a similar format. If converting from volume to weight or weight to volume, please provide your calculations and assumptions.

**Table I: Volume and Weight of CCBs Generated for Calendar Year 2012**: Please note the change to this table from previous years, to include both the volume and weight of the types of CCBs your facility produces.

| Volume and Weight of CCBs Generated for Calendar Year 2012 | | | |
|---|---|---|---|
| Fly Ash | Bottom Ash | | |
| Type of CCB | Type of CCB | Type of CCB | Type of CCB |
| 2,622 | 856 | | |
| Volume of CCB, in Cubic Yards | Volume of CCB, in Cubic Yards | Volume of CCB, in Cubic Yards | Volume of CCB, in Cubic Yards |
| 3,015 | 754 | | |
| Weight of CCB, in Tons | Weight of CCB, in Tons | Weight of CCB, in Tons | Weight of CCB, in Tons |

Additional notes:

The weight of CCB's generated is determined by the known weight of coal burned, the ash content of the burned coal (or received coal) and the industry adopted distribution of 80% fly ash and 20% bottom ash for eastern bituminous coals.

The volume of CCB's generated is determined by taking the above calculated weights and using engineering estimates of 1.15 tons/cy for fly ash and 0.88 tons/cy for bottom ash.

Note: Both of these are dry, unconsolidated calculations and do not account for any moisture or water contained within the CCB's. R. Paul Smith operated a wet conveyance system for fly ash and bottom ash. The volume or weight of water is not quantifiable.

D. Descriptions of any modeling or risk assessments, or both, conducted relating to the coal combustion byproducts or their use, that were performed by you or your company during the reporting year. Please attach this information to the report. No such studies have been performed.

E. Copies of all laboratory reports of all chemical characterizations of the coal combustion byproducts. Please attach this information to the report. See attached analyses.

F. A description of how you disposed of or used your coal combustion byproducts in calendar year 2012, identifying:

(a) The types and volume of coal combustion byproducts disposed of or used (if different than described in Paragraph C above) including any coal combustion byproducts stored during the previous calendar year, the location of disposal, mine reclamation and use sites, and the type and volume of coal combustion byproducts disposed of or used at each site:

The fly ash and bottom ash generated at R. Paul Smith Power Station were sluiced via a pipeline across the Potomac River, crossing into West Virginia and into one of two storage lagoons. Only one lagoon is operational at a time. Currently only Lagoon No. 4 is being used for CCB storage activities. Once dewatered, the ash contained within the lagoon is excavated and placed in the adjacent dry landfill. The disposal facility consisting of the two lagoons and dry landfill is operated under Solid Waste/NPDES Permit No. WV0079316 issued by the West Virginia Department of Environmental Protection. No CCB's are disposed in the State of Maryland. During 2012, some previously disposed CCB's were excavated from the dry landfill facility and transported to concrete manufacturing facilities located in West Virginia and Maryland.

and (b) The different uses by type and volume of coal combustion byproducts:

All CCB's are disposed as detailed in F.(a) above.

If the space provided is insufficient, please attach additional pages in a similar format.

G. A description of how you intend to dispose of or use coal combustion byproducts in the next 5 years, identifying:

(a) The types and volume of coal combustion byproducts intended to be disposed of or used, the location of intended disposal, mine reclamation and use sites, and the type and volume of coal combustion byproducts intended to be disposed of or used at each site:

In the fourth quarter 2012, the facility was placed in a long term cold storage status. Thus, no CCB's are anticipated to be generated.

and (b) The different intended uses by type and volume of coal combustion byproducts.

See item G.(a).

If the space provided is insufficient, please attach additional pages in a similar format.

Facility Name: R. Paul Smith Power Station

# CCB Tonnage Report – 2012

**IV. Signature and Certification**. An authorized official of the generator must sign the annual report, and certify as to the accuracy and completeness of the information contained in the annual report:

| This is to certify that, to the best of my knowledge, the information contained in this report and any attached documents are true, accurate, and complete. | | |
|---|---|---|
| Signature | Raymond L. Evans<br>Vice President, Environmental 330-761-4482<br>Name, Title, & Telephone No. (Print or Type)<br>rlevans@firstenergycorp.com<br>Your Email Address | 2/25/2013<br>Date |

**V: Attachments (please list):**

TCLP analyses for fly ash and bottom ash.

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BETA Laboratory

# Analytical Report

6670 Beta Drive
Mayfield Village, OH 44143
800-470 BETA
440-470-9802
Fax 440-604-9800

BETA ID#: AI04887
Location: 32100318
Description: R. P. SMITH STAT 018 FLY ASH
Customer Description: NOT PROVIDED

Date Collected: 12/15/2011
Time: 12:25

| Parameter | Result | Units | MDL | Dilution Factor | Method | Analysis Date & Time | Analyst |
|---|---|---|---|---|---|---|---|
| TCLP Extraction | Complete | | | 1 | 1311 | 2/27/12 08:36 | RDP |
| Arsenic TCLP | 1.00 | mg/L | 0.0060 | 1 | 6010 | 2/27/12 12:52 | JA |
| Barium TCLP | 0.285 | mg/L | 0.0004 | 1 | 6010 | 2/27/12 12:52 | JA |
| Cadmium TCLP | 0.0018 | mg/L | 0.0007 | 1 | 6010 | 2/27/12 12:52 | JA |
| Chromium TCLP | 0.0047 | mg/L | 0.0004 | 1 | 6010 | 2/27/12 12:52 | JA |
| Lead TCLP | <MDL | mg/L | 0.0026 | 1 | 6010 | 2/27/12 12:52 | JA |
| Selenium TCLP | 0.368 | mg/L | 0.0052 | 1 | 6010 | 2/27/12 12:52 | JA |
| Silver TCLP | <MDL | mg/L | 0.0004 | 1 | 6010 | 2/27/12 12:52 | JA |
| Mercury TCLP | 0.00013 | mg/L | 0.00005 | 1 | 7174 | 3/7/12 08:47 | RDP |
| pH | 10.60 | SU | 0.1 | 1 | SM4500-H B | 3/16/12 13:09 | PG |

Sample Notes:

Login Batch #: 120214013



Analysis Certificate # R120214013

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# Analytical Report

6670 Beta Drive
Mayfield Village, OH 44143
800-470 BETA
440-470-9802
Fax 440-604-9800

BETA ID#: AI04888
Location: 32100319
Description: R. P. SMITH STAT 019 BOTTOM ASH
Customer Description: 0097432

Date Collected: 12/15/2011
Time: 10:45

| Parameter | Result | Units | MDL | Dilution Factor | Method | Analysis Date & Time | Analyst |
|---|---|---|---|---|---|---|---|
| TCLP Extraction | Complete | | | 1 | 1311 | 2/27/12 08:36 | RDP |
| Arsenic TCLP | <MDL | mg/L | 0.0060 | 1 | 6010 | 2/27/12 12:56 | JA |
| Barium TCLP | 1.47 | mg/L | 0.0004 | 1 | 6010 | 2/27/12 12:56 | JA |
| Cadmium TCLP | <MDL | mg/L | 0.0007 | 1 | 6010 | 2/27/12 12:56 | JA |
| Chromium TCLP | 0.0007 | mg/L | 0.0004 | 1 | 6010 | 2/27/12 12:56 | JA |
| Lead TCLP | <MDL | mg/L | 0.0026 | 1 | 6010 | 2/27/12 12:56 | JA |
| Selenium TCLP | 0.0379 | mg/L | 0.0052 | 1 | 6010 | 2/27/12 12:56 | JA |
| Silver TCLP | <MDL | mg/L | 0.0004 | 1 | 6010 | 2/27/12 12:56 | JA |
| Mercury TCLP | 0.00018 | mg/L | 0.00005 | 1 | 7174 | 3/7/12 09:01 | RDP |
| pH | 9.0 | SU | 0.1 | 1 | SM4500-H B | 3/16/12 13:09 | PG |

Sample Notes:
Only 21 grams of sample to do TCLP

Login Batch #: 120214013



Analysis Certificate # R120214013

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