Board of Education of Allegany County

Facilities Department
Post Office Box 1724
211 Market Street
Cumberland, Maryland 21502-0439
Phone: 301-759-2830 Fax: 301-722-4305

Facilities

LETTER OF TRANSMITTAL

Date: February 21, 2013

Re: Coal Combustion Byproducts Annual Generator Tonnage Report

TO: Maryland Department of the Environment
Waste Management Administration
Solid Waste Program
1800 Washington Boulevard, Suite 605
Baltimore, MD 21230-1719

WE ARE SENDING YOU THE ATTACHED:

COPIES	DATE	DESCRIPTION
1	2/21/2013	Coal Combustion Byproducts Annual Generator Tonnage Report – Allegany High School
1	2/21/2013	Coal Combustion Byproducts Annual Generator Tonnage Report – Braddock Middle School
1	2/21/2013	Coal Combustion Byproducts Annual Generator Tonnage Report – Fort Hill High School
1	2/21/2013	Coal Combustion Byproducts Annual Generator Tonnage Report – Washington Middle School

THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ Approved as submitted ☐ For your use ☒ As requested

☐ For review/comment ☐ For payment ☐ Faxed ☐ FYI

REMARKS:

RECEIVED
MAR 4 2013
SOLID WASTE
OPERATIONS DIVISION

SIGNED:

MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Boulevard • Suite 605 • Baltimore, Maryland 21230-1719
410-537-3315 • 800-633-6101 x3315 • www.mde.state.md.us
Land Management Administration • Solid Waste Program

Coal Combustion Byproducts (CCBs)
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 (CCBs) 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 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.

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II. General Information and Applicability.

A. Definitions. CCBs 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 SEPARATELY 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: Washington Middle School

Name of Permit Holder: N/A

Facility Address: 200 Massachusetts Avenue
Street

Facility Address: Cumberland MD 21502
City State Zip

County: Allegany

Contact Information (Person filing report or Environmental Manager)

Facility Telephone No.: 301-777-5360 Facility Fax No.: 301-777-8452

Contact Name: William J. Marley III, P.E.

Contact Title: Supervisor of Maintenance and Construction

Contact Address: 211 Market Street
Street

Contact Address: Cumberland MD 21502
City State Zip

Contact Email: william.marleyiii@acps.k12.md.us

Contact Telephone No.: 301-759-2830 Contact Fax No.: 301-722-4305

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

Facility Name: Washington Middle School

CCB Tonnage Report – 2012

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

Two (2) fire-tube, stoker coal boilers, firing bituminous coal, are used to supply hot water for building heat.

C. The volume and weight of CCBs generated during calendar year 2012, including an identification of the different types of CCBs 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			
Bottom Ash Type of CCB	Type of CCB	Type of CCB	Type of CCB
20.13 Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards
12.26 Weight of CCB, in Tons	Weight of CCB, in Tons	Weight of CCB, in Tons	Weight of CCB, in Tons

Additional notes:

The volume and weight of CCBs generated by this facility were calculated using the weight of coal purchased and the ash value reported from the corresponding coal analysis reports.

D. Descriptions of any modeling or risk assessments, or both, conducted relating to the CCBs or their use that were performed by you or your company during the reporting year. Please attach this information to the report.

E. Copies of all laboratory reports of all chemical characterizations of the CCBs. Please attach this information to the report.

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

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

Bottom ash: 12.26 tons/20.13 yd^3; Pine Mountain Coal Company, Frostburg, Maryland.

and (b) The different uses by type and volume of CCBs:
Bottom ash: 12.26 tons/20.13 yd^3; road traction.

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 CCBs in the next 5 years, identifying:

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

Based on the past nine years of data, it is estimated that this facility will continue to generate approximately 32.2 tons/52.87 yd^3 of CCBs each year that the coal fired boilers are in operation. The CCBs generated by this facility are classified as bottom ash.

and (b) The different intended uses by type and volume of CCBs.

Bottom Ash – Approximately 32.2 tons/52.87 yd^3 per year – Authorized Disposal Site.

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

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	William J. Marley III, P.E. – Supervisor of Maintenance & Construction 301-759-2830 Name, Title, & Telephone No. (Print or Type) william.marleyiii@acps.k12.md.us Your Email Address	2/21/13 Date

V: Attachments (please list):

Coal Analysis Report – Penn Keystone Coal Company

GEOCHEMICAL TESTING
Environmental and Energy Analysis
2005 N. Center Ave.
Somerset, PA 15501
814/443-1671
814/445-6666
FAX: 814/445-6729

COAL ANALYSIS REPORT

Client: GAULEY MINING COMPANY INC

Sampled by: Bob/Joe

Sampling Date: 05/09/2012

Analyzed on: 05/15/2012

Description: EC Regular Nut (B)

LAB NO. 12-149194

		As Received	Dry	Dry Ash-Free
Total Moisture	D2961-02	1.83		
Ash	D3174-02	10.82	11.02	
Volatile Matter	D3175-02	18.49	18.84	21.17
Fixed Carbon	Calc.	68.86	70.14	78.83
		100.00	100.00	100.00
Sulfur	D4239-02	0.62	0.63	
BTU/LB	D5865-03	13561	13814	15524

Free Swelling Index D720-91 5.0

Lbs Sulfur/Million Btu 0.46

Lbs SO2/Million Btu 0.92

Robert L. Stull
Director of Coal Services

ACCREDITED IN ACCORDANCE WITH nelac

SCREEN DATA

Size Fraction	wt%	cum wt%
+2"	5.40	5.40
2" X 1/4"	84.80	90.20
1/4" X 0"	9.80	100.00

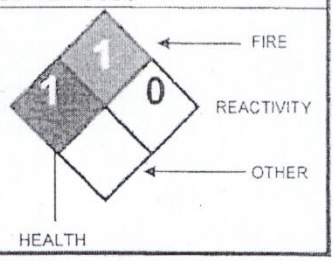
PENN KEYSTONE COAL CO. LLC
RD 1 Box 557 Claysburg, PA 16625
814-244-3140
Fax: ~~814-239-8151~~
814-689-7010

MATERIAL SAFETY DATA SHEET

BITUMINOUS COAL

Content Last Revised 1/94; 10/12/00; 07/26/02; 06/05
4 pages.

SECTION 1 - MATERIAL IDENTIFICATION		24 HOUR EMERGENCY INFORMATION
PRODUCT / CHEMICAL NAME:	BITUMINOUS COAL	Sprague: 603-431-1000 Chemtrec: 800-424-9300
PRODUCT / CHEMICAL SYNONYMS:	WASHED COAL, CLEAN COAL, SOFT COAL	HMIS / NFPA HAZARD RATING 4=EXTREME 3=SERIOUS 2=MODERATE 1=SLIGHT 0=MINIMAL
CHEMICAL FAMILY / FORMULA:	ALIPHATIC AND AROMATIC HYDROCARBONS / VARIABLE	
MATERIAL USE OR OCCURRENCE:	-	



SECTION 2 – INGREDIENTS & RECOMMENDED OCCUPATIONAL EXPOSURE LIMITS			
COMPOSITION	% WEIGHT AS RECEIVED	OSHA PEL	ACGIH TLV
MOISTURE	(Typical) 1.0 – 10.0	None established.	None established.
ASH	4.0-20.0	15 mg/M³ as nuisance dust less than 1% quartz	10 mg/M³ as nuisance dust less than 1% quartz
TOTAL SULFUR	0.5-2.2	5.0 ppm as SO_2	2.00 ppm as SO_2
FIXED CARBON	50.0-72.0	None established	None established
VOLATILE MATTER* INCLUDING ELEMENTAL AND COMPOUNDS OF:	17.0-37.0		
HYDROGEN	4.8-5.3	None established	None established
NITROGEN	1.2-1.6	None established	None established
CHLORINE	.08-.19	1.0 ppm	1.0 ppm
COAL DUST		2.4 mg/ M³ respirable fraction, < 5% SiO_2 10 mg/ M³ > 5% SiO_2 % SiO_{2-2}	2 mg/M³ respirable fraction, < 5% SiO_2 10 mg/ M³ > 5% SiO_2 % SiO_{2+2}

SECTION 3 - PHYSICAL DATA			
IGNITION TEMPERATURE:	260°-365°F	% VOLATILITY BY VOLUME:	Negligible
MELTING POINT:	750° F	VAPOR DENSITY (AIR = 1):	N/A
AVERAGE SPECIFIC GRAVITY (H2O = 1):	1.43	SOLUBILITY IN WATER:	Non-soluble
HETEROGENOUS - CARBONACEOUS			
APPEARANCE & ODOR: Irregular, rectangular-shaped chunks or particles, dense, grayish-black to black color with slight, minimal dank odor.			

PENN KEYSTONE COAL CO. LLC
RD 1 Box 557 Claysburg, PA 16625
814-244-3140
Fax: ~~814-245-3791~~ 814-689-7010

MATERIAL SAFETY DATA SHEET

BITUMINOUS COAL

Content Last Revised 1/94: 10/12/00: 07/26/02; 06/05 4 pages

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: When exposed to flame of temperatures in excess of 260° F.

EXTINGUISHING MEDIUM: Foam, carbon dioxide, dry chemical, halon, and water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Use washdown and spread out method.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Susceptible to spontaneous combustion. Highly combustible and/or explosive when in dust or powder form.

SECTION 5 - HEALTH DATA

TOXICOLOGICAL TEST DATA: Coal may liberate various polycyclic aromatic hydrocarbons (PAH's) upon thermal decomposition. There is no clear evidence that coal is carcinogenic to man or experimental animals because of their polycyclic aromatic hydrocarbon content. However, there is evidence that these PAH's may play an active role in the generation of lung cancer seen in cigarette smokers or tar-roofing workers.

Coal may release small quantities of methane gas over a period of time. Progression of tuberculosis is greatly increased in pneumoconiosis but susceptibility is apparently not increased.

	ACUTE HEALTH EFFECTS	CHRONIC HEALTH EFFECTS
INHALATION	The principal health hazard associated with coal occurs during its mining and transport. Coal workers' pneumoconiosis (CWP) can occur in miners after as little as 15 years of excessive inhalation of respirable coalmine dust. Respirable quartz particles and free silica may be co-implicated. Coal dust is deposited in the lungs where its site of action is the lung parenchyma, lymph nodes and hila. The severity of the disease is directly related to the amount of coal dust in the lungs. In the simple stages, the disease is detectable by x-ray as round, irregular "macules"of 1-5 mm. This stage typically does not change lung function or shorten life.	The chronic stage of CWP, however, involves massive pulmonary fibrosis that does impair pulmonary function and shorten life. Chronic Bronchitis (lung inflammation, coughing attacks, difficult breathing, etc.) and emphysema can result from excessive coal dust inhalation. Rheumatoid arthritis can be exacerbated by pneumonias leading to rapidly developing lung damage (Caplan's Syndrome).
INGESTION	May cause irritation.	No data available
SKIN CONTACT	May cause irritation.	No data available.
EYE CONTACT	Irritation of the eye.	No data available

FIRST AID PROCEDURES

First aid procedures generally don't apply to this product. Maintain exposure to coal dust according to applicable regulatory standards.

SECTION 12 - ADDITIONAL REGULATORY DATA

REPORTABLE COMPONENTS: FEDERAL EPA	%	SARA RQ	CERCLA RQ	RCRA NO.
BITUMINOUS COAL	100	-----	-----	-----

NOTE: OSHA Regulations 29 CFR 1910.1200 (Hazard Communication) do not consider coal as a "hazardous material" and a Material Safety Data Sheet (MSDS) is not required. The information contained herein is based on data available at this time and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Since information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, no responsibility is assumed for the results of its use. The person receiving this information shall make his own determination of the suitability of the material for his particular purpose.