MARYLAND DEPARTMENT OF THE ENVIRONMENT
Land Management Administration • Solid Waste Program
1800 Washington Boulevard • Suite 605 • Baltimore, Maryland 21230
410-537-3375 • 800-633-6101 x3375 • www.mde.state.md.us

Coal Combustion Byproducts (CCB)
Annual Generator Tonnage Report

Instructions for Calendar Year 2009

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 2009. Please answer the questions on the form provided, attaching additional information and any requested supplemental information to the back of the form.

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 meet 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

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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.

III. Required Information. The following information must be provided to the Department by March 1, 2010:

A. Contact information:

Facility Name: LEHIGH CEMENT CO.

Name of Permit Holder: SAME

Facility Address: 675 QUAKER HILL ROAD
Street

Facility Address: UNION BRIDGE MD 21791
City State Zip

County: CARROLL

Contact Information (Person filing report or Environmental Manager)

Facility Telephone No.: 410-386-1210 Facility Fax No.: 410-386-1296

Contact Name: KURT W. DEERY

Contact Title: ENVIRONMENTAL ENGINEER

Contact Address: SAME
Street

Contact Address: SAME
City State Zip

Contact Email: KDEERY@LEHIGHCEMENT.COM

Contact Telephone No.: 410-386-1229 Contact Fax No.: 410-386-1296

For questions on how to complete this form, please call Mr. Edward Dexter, Administrator, Solid Waste Program at 410-537-3318.

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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:

NO GENERATION ON-SITE.

ALL CCB'S ARE CONTAINED WITHIN THE CEMENT MFG. PROCESS.

C. The annual volume of coal combustion byproducts generated during the last calendar year, 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:

Table I: Volume of CCBs Generated for Previous Calendar Year:

Reporting Year	Volume of CCB Type:	Volume of CCB Type:	Volume of CCB Type:
2009	NONE	GENERATED	/ OR DISPOSED

Additional notes:

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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.

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

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

(a) The types and volume of coal combustion byproducts disposed of or used (if different than described in Paragraph C above), 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:

LEHIGH RECEIVED 215,287 SHORT TONS OF FLY ASH IN YEAR 2009.

PLEASE SEE ATTACHED DOCUMENT.

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

PLEASE SEE ATTACHED.

If the space provided is insufficient, please attach additional pages in a similar format. . (Please note that in subsequent years you need only provide the information in Section F for the last calendar year).

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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:

Please see ATTACHed.

LEHIGH PROJECTS OVER THE NEXT 5-YRS. a USAGE RATE OF APPROX. 220,000 – 275,000 SHORT TONS PER YEAR.

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

See ATTACHed. — Cement Mfg ONLY!!!!

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.		
Kurt W. Deery Signature	KURT W. DEERY ENVIRON. ENGR 410-366-1229 Name, Title, & Telephone No. (Print or Type) KDEERY@LEHIGHCEMENT.COM Your Email Address	2 MARCH 2010 Date

LEHIGH
HEIDELBERGCEMENTGroup

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Union Bridge, MD 21791
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Lehigh Cement Company
Fly Ash Usage
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Manufacturing of cement required Calcium Oxide (CaO), Silicon Dioxide (SiO_2), Aluminum Oxide (Al_2O_3), and Ferric Oxide (Fe_2O_3) in precise quantities to form the necessary hydraulic phases that determine the overall strength performance of the clinker, a semi-finished cement product. Clinker is then blended with gypsum and ground to a prescribed fineness to form the finished cement. The Union Bridge plant uses limestone to provide the CaO content, sand to supply SiO_2, millscale to provide Fe_2O_3 and Fly ash as an Al_2O_3 source for clinker manufacture, fly ash is added before the kiln.

Adding materials before the kiln and being exposed to 1400° C temperature transforms all materials to liquid state and destroys any source of origin. In other terms Al_2O_3 from fly ash is no different from minor volumes of Al_2O_3 from limestone or sand. Thus, there is no fly ash in clinker or finished cement. Lehigh received and utilized 234,362 short tons of flyash for use in year 2009 from the following power generation facilities:

Lehigh Cement Flyash Use & Suppliers

State of Origin	Supplier	Total Short Tons
Maryland	Constellation-Baltimore	109969
Maryland	Mirant-Morgantown	2500
Pennsylvania	PPL-York Haven	51418
Pennsylvania	Reliant-Birdsboro	8281
New York	Dynegy	20976
New Jersey	Conectiv	1926
New Jersey	PSEG-Hudson	13285
New jersey	PSEG-Mercer	6027
Connecticut	PSEG-Bridgeport	9121
Virginia	Chesapeake	6902
Delaware	NRG-Dover	3957
	Total	**234,362**