

Facility Name: Lehigh Cement Co. CCB Tonnage Report - 2015

**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, 2016:

A. Contact information:

Facility Name: Lehigh Cement Co.

Name of Permit Holder: No permit required

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.: 410-386-1229 Facility Fax No.: 410-386-1296

Contact Name: Kurt W. Deery, REM, CSEM

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.: same

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

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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:

Lehigh generates coal ash by burning coal in the cement kiln burner. All coal ash is incorporated into the clinker produced inside the cement kiln. The coal ash during the clinker production is converted to calcium silicates.

Lehigh does not dispose of or store coal ash generated by burning coal within the cement kiln process

C. The volume and weight of CCBs generated during calendar year 2015, 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 2015.** 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.

<b>Volume and Weight of CCBs Generated for Calendar Year 2014</b>			
Coal ash			
Type of CCB	Type of CCB	Type of CCB	Type of CCB
NA, no density measure			
Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards
77,943.0			
Weight of CCB, in Tons	Weight of CCB, in Tons	Weight of CCB, in Tons	Weight of CCB, in Tons

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**Additional notes:**

In year 2015, 268,769.0 dry tons of coal were burned at Lehigh Union Bridge site. The ash content was 29%.

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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 2014, 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:

Lehigh beneficially uses, fly ash, bottom ash and gypsum. See attached.

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and (b) The different uses by type and volume of CCBs:  
see attached

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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:

NA

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

Lehigh beneficially utilizes fly ash and bottom ash due to their alumina content  
Lehigh beneficially utilizes gypsum in the clinker grinding into cement due to  
the calcium sulfate content of gypsum.

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

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**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:

<b>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.</b>		
 Signature	<hr/>	
	Kurt W. Deery, REM CSEM, Environmental Engineer Name, Title, & Telephone No. (Print or Type)	8/16/2016 Date
	Kdeery@lehighcement.com Your Email Address	

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

List of CCB's used at Lehigh Cement Company, Union Bridge.

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**Attachment 1**

**Total short tons of CCBs used Year 2015 = 572,304.00**

**Total Yards of CCBs used Year 2015 = 696,030.9**

Calculations

(Tons \* 2000 lb/ton / lbs/cu ft) = cubic feet of material

Cubic Feet of material \* (1 yard/ 3ft)<sup>3</sup> = yards of material

**Attachment 1  
Year 2015 CCB Reporting**

**Table 1: Fly Ash Totals**

<b>Fly Ash Supplier</b>	<b>Supplier Location</b>	<b>Total Short Tons Delivered to Lehigh</b>	<b>Cubic Feet of Material*</b>	<b>Yards of Material</b>
Constellation	Baltimore, MD	13,122.00	583,200	21,600
PSE&G	Jersey City, NJ	2,095.00	93,111	3,449
PSE&G	Mercer, NJ	2,470.00	109,778	4,066
PSE&G	Bridgeport	430.00	19,111	708
PPL	York Haven, PA	19,016.00	845,156	31,302
PPL	Washingtonville, PA	99.00	4,400	163
Chalk Point	Baltimore, MD	0.00	0	0
<b>Total</b>		<b>37,232.00</b>	<b>1,654,756</b>	<b>61,287.24</b>

\*Note: Fly ash = 45 lbs/cu. Ft as measured by Lehigh Lab

**Table 2: Bottom Ash Totals**

<b>Bottom Ash Supplier</b>	<b>Supplier Location</b>	<b>Total Short Tons Delivered to Lehigh</b>	<b>Cubic Feet of Material*</b>	<b>Yards of Material</b>
Constellation	Baltimore, MD	216.00	6,171	229
PH Gladfelter	Springrove, PA	18,694.00	534,114	19,782
First Energy	R Paul Smith, Hagerstown, MD	260,998.00	7,457,086	276,188
RFI	Ox Paper, WV	1,699.00	48,543	1,798
RFI	Rocket	287.00	8,200	304
PPL	York Haven, Pa	91,276.00	2,607,886	96,588
<b>Total</b>		<b>373,170.00</b>	<b>10,662,000</b>	<b>394,888.89</b>

\*Note: Bottom Ash = 70 lbs/cu. Ft as measured by lehigh Lab

**Table 3: Synthetic Gypsum**

<b>Gypsum Supplier</b>	<b>Supplier Location</b>	<b>Total Short Tons Delivered to Lehigh</b>	<b>Cubic Feet of Material*</b>	<b>Yards of Material</b>
MERG	West Virginia	47,985.00	1,919,400	71,089
Keystone & Conemaugh	Johnstown, PA	8,292.00	331,680	12,284
Raven Power	Baltimore, MD	17,622.00	704,880	26,107
USG	Dupont Plant in Richmond, VA	3,489.00	139,560	5,169
International Materials (IMI), Baltimore	Import from Spain	529.00	21,160	784
PPL	York Haven, PA	83,985.00	3,359,400	124,422
<b>Total</b>		<b>161,902.00</b>	<b>6,476,080</b>	<b>239,854.81</b>

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**\*Note: Synthetic Gypsum = 50 lbs/cu. Ft as measured by Lehigh Lab**