

**Coal Combustion Byproducts (CCBs)
Annual Generator Tonnage Report
Instructions for Calendar Year 2017**

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 2017. 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 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 ed.dexter@maryland.gov.

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.

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.”

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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, 2018:

A. Contact information:

Facility Name: Lehigh Cement Company LLC

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

Contact Title: Environmental Engineer

Contact Address: As Above
Street

Contact Address: Same
City State Zip

Contact Email: Kurt.Deery@lehighhanson.com

Contact Telephone No.: Same 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 to fire the cement kiln burner. All coal ash is incorporated into the clinker produced inside of the kiln. The coal ash during the clinker production is converted to calcium silicates ash.

Lehigh Cement Company does not dispose of coal ash

C. The volume and weight of CCBs generated during calendar year 2017, 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 2017: Please note that this table includes both the volume and weight of the types of CCBs your facility produces.

Volume and Weight of CCBs Generated for Calendar Year 2017			
Coal Ash (consumed in mfg. process)			
Type of CCB	Type of CCB	Type of CCB	Type of CCB
NA			
Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards
83,137.5			
Weight of CCB, in Tons	Weight of CCB, in Tons	Weight of CCB, in Tons	Weight of CCB, in Tons

Additional notes:

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Lehigh burned 286,281 tons of dry fuel in year 2017 with an ash content of 29%.

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 2017, 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 utilizes bottom & fly ash along with synthetic gypsum in the clinker & cement manufacturing processes.

See attached sheet for usage volumes.

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

Lehigh beneficially utilizes fly ash and bottom ash due to their alumina content. Lehigh also beneficially uses synthetic gypsum during the grinding of clinker into cement. The synthetic gyp contains calcium sulfate which is beneficial in making cement.

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

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

See
attached


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:

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	KURT W. DEERY REM. ENVIRON. ENGR. <hr/> KURT. DEERY@LEHIGHANSON. Your Email Address	3/19/2018 Date com
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V: Attachments (please list):

Volumes of CCB's used in the cement & clinker production processes.

2017 Union Bridge Fly Ash Supply

Fly Ash Deliveries (in s-tons)

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	2017 total YTD
Constellation - Baltimore	77	0	0	0	0	639	324	350	209	128	0	134	1861
PP&L - York Haven	904	177	341	328	325	255	172	0	482	0	0	1652	4636
PSE&G - Hudson													
PSE&G - Mercer													
Total	981	177	341	328	325	894	496	350	691	128	0	1786	6497

Outage

Bottom Ash Deliveries (in s-tons)

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	2017 total YTD
Paul Blum - R Paul Smith	14418	9602	23553	20128	19278	25671	35760	36337	30179	20310	34665	28218	298119
RFI-Ox	71	63	183	168	135	191	390	84	0	0	0	0	1285
Recash - PPL York Haven													
Basin 6 - PPL York Haven	3021	8598	19564	19102	20740	21484	15525	17154	16188	16101	16932	14104	188513
Hudson Station	1024	1512	888	1504	1336	1222	531	1419	1678	1523	236	0	12873
Luke Paper Mill													
Total	18534	19775	44188	40902	41489	48568	52206	54994	48045	37934	52500	44427	503562

Outage

Total Ash Delivered

19515	19952	44529	41230	41814	49462	52702	55344	48736	38062	52500	46213	510059
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2017 Union Bridge Supply

Synthetic Gypsum

Outage

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	YTD
MERG - Mt Storm Key-Con	11457	7353	16178	12404	8394	15531	15816	14415	5702	9420	6834	8224	131728
Raven Power	1355	22			3685	953	3087	5818	2778	4812	3692	3543	29745
Raven Power - Barge													0
USG - Raven	2024		22										2046
IMI - Spanish Gypsum										309			309
PPL-Stone Nat Resource													0
PPL-Battlefield													0
PPL-TSL	1753	23											1776
PPL-TSL (Quarry)	310												310
PPL - CAMZ													0
PPL - Payne													0
PPL-Feeser	717	21											738
PPL-Feeser (Quarry)	743												743
Total	18359	7419	16200	12404	12079	16484	18903	20233	8480	14541	10526	11767	167395