MARYLAND DEPARTMENT OF THE ENVIRONMENT
Land Management Administration • Bureau of Mines
160 South Water Street • Frostburg, Maryland 21532
(301) 689-1440 • 1-800-633-6101 • http://www.mde.state.md.us

COAL COMBUSTION BYPRODUCT UTILIZATION / DISPOSAL REQUEST

Application Number:

1.0 APPLICANT INFORMATION

1.1 Name / Permittee:
Address:
Phone:
Contact Person:

1.2 Coal Permit Number or Site Name:

1.3 Estimated coal tonnage produced: tons/month

1.4 Is this request a result of an ash haul-back agreement:
If yes, is the agreement proposed or finalized:

1.5 Provide a letter of approval for disposal/utilization of the CCB from the landowner(s) of the area where disposal/utilization is proposed.

2.0 IDENTIFICATION OF MATERIAL

2.1 Name of Source:
Location:
Contact Person:
Phone Number:

2.2 Type of Facility:

2.3 Type of Fuel Burned: Clean Coal ☐ Coal Refuse ☐

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2.4 Type of boiler/combustion technology:

2.5 Type of CCB: Bottom ash/slag ☐ Fly ash ☐ Desulfurization sludge ☐ Calcium spray dryer sludge ☐ Other

2.6 If a combined CCB, indicate the relative percentages:

Bottom ash:
Fly ash:
Desulfurization sludge:
Other: (type and %)

3.0 CHEMICAL CHARACTERIZATION

3.1 Attach a solids analysis of the CCB material performed in the last 60 days that includes the following parameters. Provide separate analysis for each type of the CCB that is received, e.g., fly ash, bottom ash, desulfurization sludge.

aluminum	cadmium	lithium	selenium
arsenic	chromium	manganese	silver
barium	copper	mercury	zinc
boron	lead	molybdenum	

3.2 Attach a Toxicity Characteristics Leaching Procedure (TCLP) analysis of the CCB material performed in the last 60 days that includes the following parameters. Provide separate analysis for each type of the CCB that is received, e.g., fly ash, bottom ash, desulfurization sludge.

aluminum	cadmium	lead	selenium
arsenic	chromium	manganese	silver
barium	copper	mercury	zinc

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3.3 Attach an acid-base accounting analysis of the CCB material, and any other material proposed to be used to increase the neutralization potential of the CCB material, performed in the last 60 days that includes the following parameters. Provide separate analysis for each type of the CCB that is received, g., fly ash, bottom ash, desulfurization sludge.

e. Sulfur content expressed in percent
Neutralization potential (NP) expressed as $CaCO_3$ equivalents in tons per thousand tons
Maximum potential acidity (MPA) calculated as 31.25 times percent sulfur
Net neutralization potential (NNP) calculated as NP minus MPA

3.4 Attach water quality analyses for the area where CCB is proposed to be placed. Include samples of ground and surface waters that could potentially receive flow from the placement site, including but not limited to sediment and erosion control ponds. Provide analyses for the following parameters:

pH	alkalinity	cadmium	lithium	silver
specific conductance	aluminum	chromium	manganese	sulfate
total dissolved solids	arsenic	copper	mercury	zinc
total suspended solids	barium	iron	molybdenum	
acidity	boron	lead	selenium	

4.0 CCB UTILIZATION/DISPOSAL PLAN

4.1 Quantity of CCB to be Utilized/Disposed: tons/month

4.2 Provide a narrative description with map(s), drawings, and cross-sections of the proposed handling plan. Include at a minimum details on:

a. where the material will be placed,
b. how it will be placed,
c. how instability in fills or backfills will be prevented,
d. how AOC (approximant original contour) of the mine backfill will be maintained, and
e. temporary storage of material that cannot be immediately utilized.

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4.3. If acid-base accounting analysis of the CCB material indicates it does not exhibit a net neutralization potential of at least 5 tons per thousand tons $CaCO_3$ equivalent, provide a description with map(s), drawings, and cross-sections of the processes and procedures that will be used to augment the NNP. Include a description of the type and quantity of the materials that will be used and how it will be incorporated in the placement operation.

4.4 Provide a narrative description with drawings and cross-sections, if appropriate, explaining how dust from hauling, unloading, storage, and placement operations will be controlled.

4.5 Provide a narrative description with drawings and cross-sections, if appropriate, explaining how contamination of surface and ground water will be prevented, and how surface and ground water will be monitored.

4.6 Provide a narrative description of the potential hazards to workers involved in the handling of the material, and the plan to protect them if warranted.

5.0 Applicant Certification

The undersigned, being the applicant or a duly authorized representative of the applicant, states that he/she has read all the information provided in this Application and has found it to be true and correct. The undersigned further acknowledges that any information provided or omitted herein for the purpose of defrauding or misleading the Maryland Bureau of Mines may result in criminal charges being instituted pursuant to applicable state laws.

Applicant Name:

Applicant / Representative Who's Signature Appears Below:

Title: Telephone No.:

Signature: _____ Date: _____

This Notice is provided pursuant to § 10-624 of the State Government Article of the Maryland Code. The personal information requested on this form is intended to be used in processing your application. Failure to provide the information requested may result in your application not being processed. You have the right to inspect, amend, or correct this form. The Maryland Department of the Environment ("MDE") is a public agency and subject to the Maryland Public Information Act (Md. Code Ann., State Gov't §§ 10-601, et seq.). This form may be made available on the Internet via MDE's website and is subject to inspection or copying, in whole or in part, by the public and other governmental agencies, if not protected by federal or State law.