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 ☐
Application Number:

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

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.
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 CaCO₃ 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: _____________________