



John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Nally, Director

OHIO E.P.A.

OCT 10 2013

ENTERED DIRECTOR'S JOURNAL

CERTIFIED

October 10, 2013

FirstEnergy Corporation  
Attn: Mr. Todd A. Koget  
800 Cabin Hill Drive  
Greensburg, PA 15601

**Re: Permit for Land Application Management Plan to Use FGD Gypsum as an Agricultural Soil Amendment**

Application Received: April 1, 2013

Issuance Date: October 10, 2013

Effective Date: October 10, 2013

Expiration Date: October 9, 2018

**I certify this to be a true and accurate copy of the official documents as filed in the records of the Ohio Environmental Protection Agency.**

By: Joseph Lassiter Date: 10-10-13

Dear Mr. Koget:

The Ohio Environmental Protection Agency (Ohio EPA) has reviewed the land application management plan (LAMP) permit application received April 1, 2013 (FirstEnergy Application) submitted by Allegheny Energy Supply Company, LLC on behalf of First Energy Corporation (FirstEnergy) pursuant to Chapter 6111 of the Ohio Revised Code (ORC) for the proposed beneficial use of flue gas desulfurization (FGD) gypsum generated by Pleasants Power Station in Willow Island, West Virginia (Facility). First Energy owns and operates businesses in Ohio as well as West Virginia. The submitted LAMP permit application proposes to beneficially use FGD gypsum, which consists of calcium sulfate dehydrate from flue gas desulfurization generated by the Pleasants Power Station, as an agricultural soil amendment that will be applied directly to agricultural lands in the state of Ohio as a result of agreements entered into by First Energy.

Pursuant to the authority of the Director of Ohio EPA (Director) under ORC Chapter 6111, the LAMP permit application for FirstEnergy received April 1, 2013 is approved subject to compliance with all of the conditions below. Further, I have determined that granting an exemption from the applicable solid waste provisions of ORC Chapter 3734 to use FGD gypsum, in the quantities and under the circumstances specifically authorized in this LAMP permit, is unlikely to adversely affect the public health or safety or the environment. Therefore, pursuant to ORC Section 3734.02(G), FirstEnergy and any recipient of FGD gypsum under this LAMP permit are hereby exempted from the

applicable solid waste provisions of ORC Chapter 3734 and rules adopted thereunder specific to the land application of FGD gypsum as authorized in this LAMP permit.

## CONDITIONS

1. The FirstEnergy LAMP permit is approved for the beneficial use of FGD gypsum generated by the Facility as an agricultural soil amendment to serve as a source of calcium and sulfur in accordance with the LAMP submitted on April 1, 2013, which is attached and incorporated herein. All other beneficial uses must be separately approved by Ohio EPA. Only FGD gypsum from the Facility, as identified in this LAMP, is eligible for beneficial use under this permit.
2. The Director, or his authorized representative(s), may enter upon the Facility at any reasonable time for the purpose of conducting inspections, collecting samples of FGD gypsum, conducting tests, or examining records or reports pertaining to the generation or beneficial use of FGD gypsum from the Facility as an agricultural soil amendment.
3. Issuance of this LAMP permit does not relieve FirstEnergy of the duty to comply with all applicable federal, state, and local laws, ordinances, and regulations except as authorized herein.
4. FirstEnergy shall notify Ohio EPA if FirstEnergy anticipates a substantial change in, or does substantially change, the generating process or the raw materials used in the generating process of the FGD gypsum. This LAMP permit does not authorize beneficial use of FGD gypsum generated by the substantially changed process or raw materials unless authorized by Ohio EPA based on review of characterization data of FGD gypsum generated under the changed process or raw materials. Under such circumstances, the Director may request that FirstEnergy submit a revised LAMP permit application for approval. For the purposes of this LAMP permit, a substantial change in the raw materials is a change to a lower quality fuel or a lower quality limestone which results in FGD gypsum with additional pollutants or a higher concentration of pollutants.
5. The following shall be maintained by FirstEnergy for a minimum of five years after the beneficial use of the FGD gypsum and made available to Ohio EPA upon request:
  - a. Records of the annual volume of FGD gypsum that is beneficially used;
  - b. Records identifying the recipients or distributors of FGD gypsum and the volume provided to each recipient or distributor during the previous year;
  - c. A sampling plan detailing where samples of FGD gypsum are to be collected, how those samples are to be collected, how frequently those

samples are to be collected, and a list of parameters that are used to characterize the samples, as required in Conditions 6 through 9;

- d. All laboratory reports of all characterizations of the FGD gypsum.
6. FirstEnergy shall collect and analyze at least one sample per year of the FGD gypsum intended for beneficial use and FirstEnergy shall collect and analyze additional samples if there are substantial changes in the generation process or the raw materials used.
- a. The samples collected shall be representative of the FGD gypsum beneficially used for the calendar year.
  - b. FirstEnergy shall have the sample(s) analyzed for the pollutants listed in the table in Condition 7.
  - c. The reported detection limit for the analysis shall be below the limit specified for each pollutant in the table in Condition 7.
  - d. FirstEnergy shall employ analytical methods that generate pollutant results in units consistent with the units in the table in Condition 7.
7. At a minimum, the FGD gypsum intended for beneficial use shall be analyzed for the pollutants specified in the following table. FirstEnergy shall not designate, make available, or distribute for beneficial use any FGD gypsum that exceeds any pollutant(s) specified in the following table.

| <b>Total Limits (dry weight basis)</b> |                                     |
|--|-------------------------------------|
| <b>Pollutant</b>                       | <b>Beneficial Use Limit (mg/kg)</b> |
| Arsenic                                | 41                                  |
| Cadmium                                | 39                                  |
| Copper                                 | 1,500                               |
| Lead                                   | 300                                 |
| Mercury                                | 10                                  |
| Molybdenum                             | 75                                  |
| Nickel                                 | 420                                 |
| Selenium                               | 100                                 |
| Zinc                                   | 2,800                               |
| Barium                                 | 15,000                              |
| Beryllium                              | 160                                 |
| Chromium, Total                        | 180,000                             |
| Thallium                               | 0.78                                |
| Boron                                  | 16,000                              |

8. Ohio EPA reserves the right to add pollutants to this list as it deems necessary.
9. FirstEnergy shall analyze the FGD gypsum for the parameters necessary for users to determine the appropriate maximum agronomic application rate as determined by a qualified agronomist and/or soil test analysis.
10. Each year FirstEnergy shall submit a report regarding the beneficial use of the FGD gypsum for the previous calendar year. The annual report shall include the total amount, in tons, of FGD gypsum sold or distributed for beneficial use and the analytical results for any analysis(es) performed pursuant to Condition 6.
11. FirstEnergy shall include in the annual report required in Condition 10 the following:

*"I certify, under penalty of law, that the information used to determine compliance with the requirements contained in Chapters 3734. and 6111. of the Ohio Revised Code, and all rules thereunder, for the period beginning (insert date of last certification statement) and ending (insert current certification statement date) was prepared under my direction and supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment."*

12. The certification statement shall be signed by one of the following persons: In the case of a corporation, by a principal executive officer of at least the level of vice president or the principal executive officer's duly authorized representative, if such representative is responsible for the overall operation of the facility. In the case of a partnership, a general partner. In the case of a sole proprietorship, the proprietor. The signature shall constitute personal affirmation that all statements or assertions of fact in the records are true and complete and comply fully with applicable state requirements and shall subject the signatory to liability under ORC Section 2921.13.
13. The annual report shall be sent to the following address:

Ohio EPA  
Division of Materials & Waste Management - AAEU  
P.O. Box 1049  
Columbus, OH 43216-1049

14. Storage and beneficial use of the FGD gypsum shall not create a nuisance and shall not adversely affect public health or safety or the environment. Should a nuisance condition develop, or a determination be made by Ohio EPA that storage or land application of FGD gypsum is a threat to public health or safety or the environment, this LAMP permit to beneficially use the FGD gypsum may be revoked upon written notification from the Director. Immediately upon the

effective date of any such revocation, FirstEnergy shall cease distribution of the FGD gypsum for beneficial use under this LAMP permit. Furthermore, storage or beneficial use of FGD gypsum that creates a nuisance or adversely affects public health or safety or the environment may subject FirstEnergy and/or the user to enforcement by Ohio EPA.

15. FirstEnergy shall notify Ohio EPA in writing not later than seven days after discovering noncompliance with this LAMP permit.
16. FirstEnergy shall supply distributors and end users with a copy of this LAMP permit approval.
17. The Director may add, delete, or change any conditions of this LAMP permit to protect public health or safety or the environment.
18. This permit to beneficially use FGD gypsum shall expire at midnight on the expiration date shown above. In order to renew the permit to beneficially use FGD gypsum beyond the above date of expiration, FirstEnergy shall submit such information and forms as are required by Ohio EPA not later than 90 days prior to the above date of expiration.

The FGD gypsum shall be beneficially used in strict accordance with the conditions of this LAMP permit and as outlined in the permit application submitted for this approval to the Director. Approval of this LAMP permit does not constitute an assurance that use of the FGD gypsum in accordance with the approved LAMP permit will be in compliance with all Ohio laws and regulations.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to ORC Section 3745.04. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Treasurer, State of Ohio." The Commission, in its discretion, may reduce the fee if by affidavit it is demonstrated that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
77 South High Street, 17<sup>th</sup> Floor  
Columbus, Ohio 43215

Sincerely,

A handwritten signature in black ink, appearing to read "Scott J. Nally". The signature is fluid and cursive, with the first name "Scott" and last name "Nally" clearly legible.

Scott J. Nally  
Director

PF

Attachment: LAMP

cc: Jeff Hurdley, Legal, CO  
Bill Fischbein, Legal, CO  
Rich Fox, DMWM, SEDO



**Permit-to-Install/Plan Approval Application**

| FOR AGENCY USE ONLY |                         |                  |
|---------------------|-------------------------|------------------|
| Date Received: / /  | Application/Revenue ID: | Organization ID: |
| Document ID:        | Place ID:               | Check ID:        |
| Check Date: / /     | Check Number:           | Check Amount:    |

1. **Project Name:** Land Application of Pleasants Synthetic Gypsum

**APPROVED**  
OHIO ENVIRONMENTAL PROTECTION AGENCY

2. **Applicant** (see note after signature)

Name: Pleasants Power Station

Mailing Address: One Power Station Boulevard (State Route 2)

City: Willow Island State: WV

Contact Name: Dan Dennis

Title: Superintendent, Yard

Phone: (304) 665-3279 Fax: (234) 678-2694 E-mail: ddennis@firstenergycorp.com

AS EVIDENCED BY COPY OF  
LETTER OF APPROVAL  
HERETO ATTACHED

OCT 10 2013

RECEIVED  
APR 01 2013  
Central District Office  
Ohio EPA

3. **Application/Plans Prepared by:**

Name: Allegheny Energy Supply Company, LLC

Mailing Address: 800 Cabin Hill Drive

City: Greensburg State: PA Zip: 15601

Contact Name: Todd Koget

Title: Advanced Engineer

Phone: (724) 838-6574 Fax: (234) 678-2384 E-mail: tkoget@firstenergycorp.com

4. **Billing Address** (if different than Applicant)

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Title: \_\_\_\_\_

Phone: ( ) - Fax: ( ) - E-mail: \_\_\_\_\_

C/O 6/3/13 PAID  
Amount \$200- Date 3/14/13

5. **Future Owner** (if different than Applicant)

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Title: \_\_\_\_\_

Phone: ( ) - Fax: ( ) - E-mail: \_\_\_\_\_

C/O 1/29/13 Date 4/2/13

PERSON ID: \_\_\_\_\_  
 PLACE ID: \_\_\_\_\_  
 DOCUMENT ID: 111047  
 ORGANIZATION ID: 15715  
 REVENUE ID: 428087

**6. Project Location**

Street Address or Location Description: Statewide land application

County: \_\_\_\_\_ Township: \_\_\_\_\_

Municipality: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

Method of Determination: \_\_\_\_\_

**7. Brief Project Description:** The land application of synthetic gypsum as a pre-approved beneficial use.

**8. Will one or more acres be disturbed during construction of this project?**  Yes  No

If **Yes**, enter the date the NOI for coverage under the construction storm water NPDES permit was submitted:  / /  and the date coverage was granted:  / /

**9. Will wetlands be disturbed during construction of this project?**  Yes  No

If **Yes**, enter the date the 401/404 permit application was submitted:  / /

**10 a. Is this application part of a combined permit-to-install application? (for example air + water)**  Yes  No

**b. Has an application for a Class V injection well permit been submitted?**  Yes  No  N/A

If **Yes**, date submitted:  / /

**11. Compliance Status**

a. Will this project connect to a collection/treatment system that has a NPDES permit?  Yes  No

If **Yes**, list federal and state permit numbers:  
 OH WV0079171 | WV0023248 | \_\_\_\_\_

b. Is this application filed in compliance with findings and orders, a consent decree, and/or NPDES permit schedule?  Yes  No

If **Yes**, effective date of the document containing the schedule:  / /

**12. Compliance with 208 plan**

Does the project conform to the 208/201 plan for the area?  Yes  No  N/A

If **Yes**, has the engineer submitted supporting documentation?  Yes  No

**13. Designated Ohio, Wild, Scenic, & Recreational Rivers**

Is this project located within 1000 feet of a designated wild, scenic, and recreational river?  Yes  No

See <http://ohiodnr.com/?TabId=985> for additional information

**14. Estimated Project Schedule:**

Beginning construction date:  / /  Ending construction date:  / /  Beginning operation date:  / /

**15. Project Cost:**

\*Installation/Construction Cost: \$ N/A (Mark one):  Actual  Bid  Estimate

Annual Operation/Maintenance Cost (if applicable - this project only): \$ \_\_\_\_\_

Are Water Pollution Control Loan Funds going to be used for this project?  Yes  No

If No, Funding Source: \_\_\_\_\_

*\*This is costs of the treatment/dispersal/collection system that will serve the project*

**16. Attachments**

The following are included in this application package (check appropriate box(es) and indicate how many copies of each are provided):

- |  |  |          |
|--|--|----------|
| <input type="checkbox"/> Detail Plans _____                            | <input checked="" type="checkbox"/> Management Plan          | 4 copies |
| <input type="checkbox"/> Soil Evaluation Form _____                    | <input type="checkbox"/> Engineering Report                  | _____    |
| <input type="checkbox"/> Hydrogeologic Site Investigation Report _____ | <input type="checkbox"/> Engineering Specifications          | _____    |
| <input type="checkbox"/> Site Evaluation Form _____                    | <input type="checkbox"/> Sewer Authority Letter              | _____    |
| <input type="checkbox"/> Other (describe): _____                       | <input checked="" type="checkbox"/> Antidegradation Addendum | 2 copies |
| <input type="checkbox"/> Narrative Plans (LTCP, GP, etc.)              |  |          |

**17. Form B / C Submission** (check all that apply):

- Sewer and Pump Station Construction – Form B1
- Onsite Sewage Treatment Systems – Form B2
- Wastewater Treatment Plants Less Than 100,000 GPD – Form B3
- Wastewater Treatment Plants Greater Than or Equal to 100,000 GPD and all Pond Systems – Form B4
- Industrial Direct Discharge Facility – Form B5
- Industrial Indirect Discharge Facility – Form B6
- Underground Storage Tank Remediation – Form B7
- Holding Tanks – Form B8
- Industrial Impoundment Ponds – Form B9
- Land Application Management Plan for Sludge or Waste other than Treated Sewage – Form C1
- Treated Sewage Land Application Management Plan – Form C2
- Sewage Holding Tank Management Plan – Form C3

**18. Fee Calculations:**

Permit-to-Install (maximum total fee \$15,100)

- |  |           |
|--|-----------|
| a. Application fee:  | \$ 100.00 |
| b. Plan review fee:  | \$ 100.00 |
| c. Plan review fee (installation/construction cost x .0065): | \$ _____  |
| d. Total Fee (a + b + c):                                    | \$ _____  |

Sludge Management Plan Approval\*

- |                       |           |
|-----------------------|-----------|
| a. Application fee:   | \$ 100.00 |
| b. Plan review fee:   | \$ 100.00 |
| c. Total fee (a + b): | \$ 200.00 |

*\* No separate fee is needed for land application*

**19. Antidegradation**

Is this project subject to the Antidegradation Rule (OAC 3745-1-05)?

Yes  No

If **Yes**, an antidegradation addendum must be submitted (Note: It applies even if an exclusion and/or waiver is met)

If **No**, check all that apply:

- Application with no direct surface water discharge (Projects that do not meet the applicability section of 3745-1-05 (B)1, i.e., onsite sewage treatment systems, sanitary sewer extensions, indirect discharger to PCTW, etc.).
- Renewal NPDES application or PTI application with no requested increase in loading of currently permitted pollutants.
- Narrative Plans (Examples: LTCP, Land Application, General Plans, etc.)

**20. Submittals:**

To be considered complete, this application must include the following unless otherwise directed by Ohio EPA:

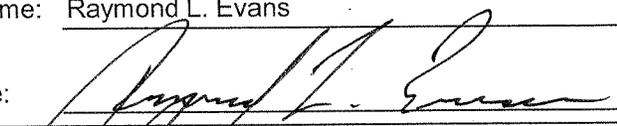
- Four copies of the detail plans including profile and plan views of all sewers (shown on the same sheet), existing (as applicable) and proposed pump station facilities, incorporating all of the details outlined in Section 20.1, 20.2 and 20.3 of *Recommended Standards for Wastewater Facilities*.
- Two copies of complete technical specifications.
- Two copies of the Permit-to-Install Application including Form A, pertinent B & C form(s), and the antidegradation addendum (if applicable)
- Fee check payable to "Treasurer, State of Ohio."

**21. Signature of the Applicant:** (see Ohio Administrative Code 3745-42-03)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision and that all the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are substantial penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Typed name: Raymond L. Evans

Title: VP, Environmental

Signature: 

Date: 3/21/2013

**NOTE (Who Must Sign):**

The person signing as Applicant is not the applicant's engineer or architect or any other person submitting the Permit-to-Install Application on behalf of the owner. The Applicant should be owner of the facility, business, corporation, company, etc. or the legal responsible entity. It is not the engineer who prepared the plans.



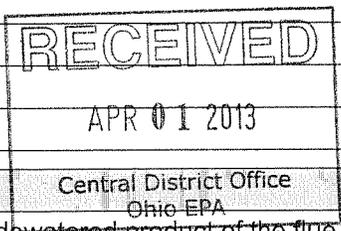


**Plan Approval - Management Plan For Sludge or Industrial Byproducts other than Treated Sewage**

Note: This form, with the attachments indicated, is intended to serve as the main substance of the management plan. If you prefer to submit a separate and complete document to serve as your management plan, then to respond to a question where a description or calculation is requested (such as Items C.1 through C.4), simply enter the page numbers of the submitted plan where the information requested can be found. Please respond on this form when just a check mark or brief statement is requested.

| FOR AGENCY USE ONLY |                    |
|---------------------|--------------------|
| Application Number: | Date Received: / / |

|                                |  |
|--------------------------------|--|
| Applicant:                     | Pleasant Power Station                         |
| Facility Owner:                | Allegheny Energy Supply Company, LLC           |
| Application/Plans Prepared by: | Todd Koget- FirstEnergy (Parent Company)       |
| Project Name:                  | Land Application of Pleasants Synthetic Gypsum |



**A. Background Information**

a. Briefly describe type and source of material to be land applied: The synthetic gypsum is a dewatered product of the flue gas desulfurization (FGD) scrubbers used at Pleasants Power Station.

b. Briefly describe proposed uses of materials (agronomic uses, soil blends, structural fill, etc.): The proposed use is only for the land application of synthetic gypsum as a pre-approved beneficial use.

c. Existing Plan Approval number: 5MP00002\*AD  N/A

**B. Generating Facility**  N/A

a. Amount of sludge/byproduct generated 800,000 dry tons/year

b. Amount proposed for beneficial use Varies dry tons/year

c. Disposal method for amount not used Landfill

d. Storage capacity at facility: 7 days

**C. Land Application (If N/A, Skip to D)**  N/A

a. Use category of land application area (check all that apply):  Unrestricted Access site  Restricted Access site

b. Quantity of material to be land applied:  
                     Inches/acre/year (annual average-liquid)                      Dry tons/acre/year (annual average-sludge)

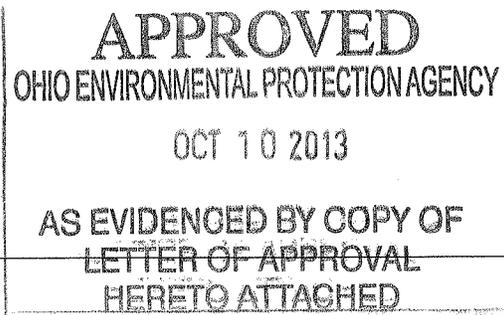
c. Does the land application area have subsurface drains/tiles located less than 24 inches below natural grade?  
 Yes  No  Unknown at this time

d. Amount of land area available for land application if known (do not include buffer zones in the figure)                      acres

e. Maximum slope of land to be used for land application =                      %

f. Type(s) of crops or vegetation to be grown on land application area:

**C.1 Describe the method or methods used for the storage and land application of sludge/other byproducts (including detailed information about the distribution system):**



**C.2 State what the maximum land application rate(s) are proposed to be and the total acres required and available for land application. Attach calculations and references showing how the application rates and acreage needs were determined.**

**C.3 Describe the monitoring of the material to be land applied and the soils in the land application area(s), including frequency, methods and parameters that will be measured in each:**

**C.4 Describe the appropriate weather conditions required for the land application of sludge/other byproducts and how they will be determined and documented:**

**C.5 Check which land application activities listed below are proposed. If yes, please explain how runoff, ponding or discharges to waters of the state will be prevented (attach separate pages as needed).**

Do you propose to land apply during precipitation events?  Yes  No  
If **yes**, please explain: \_\_\_\_\_

Do you propose to spray irrigate when instantaneous wind speeds exceed 20 miles per hour?  Yes  No  
If **yes**, please explain: \_\_\_\_\_

Do you propose to land apply within 10-year floodplain?  Yes  No  
If **yes**, please explain: \_\_\_\_\_

Do you propose to land apply in wetlands?  Yes  No  
If **yes**, please explain: \_\_\_\_\_

Do you propose to land apply where the land application contract is expired or void?  Yes  No  
If **yes**, please explain: \_\_\_\_\_

Do you propose to land apply when the ground is saturated at or near the surface?  Yes  No  
If **yes**, please explain: \_\_\_\_\_

Do you propose to land apply where there is at less than 12 inches between final grade and bedrock, sand or gravel lenses, compacted glacial till, and/or normal ground water elevation?  Yes  No  
If **yes**, please explain: \_\_\_\_\_

**C.6 List setback distances that will be observed for all of the following:**

|                                       |  |
|---------------------------------------|--|
| Ditches/Streams/Waterways: _____ feet | Private Water Supply Well: _____ feet            |
| Residences/Business: _____ feet       | Public Water Supply Well: _____ feet             |
| Sinkholes: _____ feet                 | Public Surface Drinking Water Intake: _____ feet |
| Pond or Lake: _____ feet              | Other: _____ feet                                |

*Attach additional pages if different setbacks are proposed for different methods of application (e.g. greater setbacks should be observed for surface application than injection).*

**C.7 Land application on frozen/snow-covered ground is not recommended. If land application on frozen/snow-covered ground is proposed, please indicate which of the following practices will be used to minimize pollutant discharges or nuisances:**

- Application rate is limited to 10 wet tons/acre for solid materials (50% moisture or more) and 5 wet tons/acre for material less than 50% moisture. For liquids the application rate is limited to 5,000 gallons/acre.
- Applications will be made on land with at least 90% surface residue cover.
- Material shall not be land applied on more than 20 contiguous acres, separated by breaks of at least 200 feet.
- Application setbacks shall be increased to at least 200 feet from all grassed waterways, drainage ditches, streams, surface inlets, and water bodies.
  
- The rate of application will not exceed: \_\_\_\_\_ lbs Nitrogen/acre or \_\_\_\_\_ lbs Phosphorus/acre
  
- Application will not take place on slopes greater than 6% unless material is applied in alternating strips less than 200' wide generally on the contour, or in the case of contour strips, on alternating strips.

*If any of these practices are not proposed to be followed, please attach a description of how pollutant discharges will be minimized during application on frozen/snow covered ground.*

**C.8 Describe or list any other practices that will be used to minimize pollutant discharges or nuisances:**

**C.9 Land Application Records**

How will land application information be recorded? :

- Ohio EPA's Land Application Record Form       Our Own Land Application Record Form (attached)

Where will the records be kept? :

**C.10 Application Site Map (If known)**

a. A map locating each land application site shall be attached. Each site shall be labeled "Restricted access site" or "Unrestricted access site". The map(s) should show the following items and are considered part of this plan:

- All present and known proposed occupied buildings within 300 feet of the land application area.
- All present and known proposed non occupied buildings within 300 feet of the land application area.
- All present and known proposed public and private water supply wells within 1,000 feet of the land application area.
- All sinkholes and waters of the state (including ditches, grass waterways, streams and rivers) within 200 feet of the land application area.
- All public surface drinking water supply intakes within 1500' of the land application area.
- All present and known proposed developments and public access areas within 300 feet of the land application area.

b. If the land application site(s) are not known, will site maps be submitted before land application starts?       Yes    No

**D. Other Beneficial Uses**

1. Is this material one of the following:
- Spent Foundry Sand
  - Bottom Ash From Coal Combustion
  - Fly Ash
  - Steel Slag
  - Sludge
  - Other:

2. If the material is "Other", have you contacted Ohio EPA to discuss the applicable regulations?       Yes    No
3. Is a comprehensive management plan attached for uses other than land application?       Yes    No

**E. Miscellaneous Information:**

The following items shall be included with this land application management plan:

- Two copies of the Permit-to-Install/Plan Approval Application Form A or the NPDES Permit Application.
- If applicable, two copies of the site and soil evaluation(s) (For renewal applications, this is only needed if additional or different areas)
- One copy of the sampling results for the material to be beneficially used (the most recent, but no older than one year).
- Four copies of this management plan and any attachments or  Four copies of a separate/complete management plan.
- Fee check payable to "Treasurer, State of Ohio."

The following additional information is included with this form:

**F. The foregoing data is a true statement of facts pertaining to this proposed management plan.**

Printed (Person Preparing Plan): TODD A. KOGET

Title: Advanced Engineer

Signed: *Todd A. Koget*

Date: 03/21/2013

**APPROVED**  
OHIO ENVIRONMENTAL PROTECTION AGENCY  
OCT 10 2013  
AS EVIDENCED BY COPY OF  
LETTER OF APPROVAL  
HERE TO ATTACHED

RECEIVED  
APR 01 2013  
Central District Office  
Ohio EPA

DIVISION OF SURFACE WATER

Antidegradation Addendum

In accordance with Ohio Administrative Code 3745-1-05 (Antidegradation), additional information may be required to complete your application for a permit to install or NPDES permit. For any application that may result in an increase in the level of pollutants being discharged (NPDES and/or PTI) or for which there might be activity taking place within a stream bed, the processing of the permit(s) may be required to go through procedures as outlined in the antidegradation rule. The rule outlines procedures for public notification and participation as well as procedures pertaining to the levels of review necessary. The levels of review necessary depend on the degradation being considered/requested. The rule also outlines exclusions from portions of the application and review requirements and waivers that the Director may grant as specified in Section 3745-1-05(D) of the rule. Please complete the following questions. The answers provided will allow the Ohio EPA to determine if additional information is needed. All projects that require both an NPDES and PTI should submit both applications simultaneously to avoid going through the antidegradation process separately for each permit.

A. Applicant: Pleasants Power Station  
Facility Owner: Allegheny Energy Supply Company, LLC  
Facility Location (city and county): Willow Island, WV (Pleasants County)  
Application or Plans Prepared By: Todd A. Koget  
Project Name: Land Application of Pleasants Synthetic Gypsum  
NPDES Permit Number (if applicable): WV0079171, WV0023248

B. Antidegradation Applicability

Is the application for? (check as many as apply):

- Application with no direct surface water discharge (Projects that do not meet the applicability section of 3745-1-05(B)1, i.e., on-site disposal, extensions of sanitary sewers, spray irrigation, indirect discharger to POTW, etc.). (Complete Section E)
- Renewal NPDES application or PTI application with no requested increase in loading of currently permitted pollutants. (Complete Section E, Do not complete Sections C or D).
- PTI and NPDES application for a new wastewater treatment works that will discharge to a surface water. (Complete Sections C and E)
- An expansion/modification of an existing wastewater treatment works discharging to a surface water that will result in any of the following (PTI and NPDES): (Complete Sections C and E)
  - ▶ addition of any pollutant not currently in the discharge, or
  - ▶ an increase in mass or concentration of any pollutant currently in the discharge, or
  - ▶ an increase in any current pollutant limitation in terms of mass or concentration.

- \_\_\_\_\_ PTI that involves placement of fill or installation of any portion of a sewerage system (i.e., sanitary sewers, pump stations, WWTP, etc.) within 150 feet of a stream bed. Please provide information requested on the stream evaluation addendum (i.e., number of stream crossings, fill placement, etc.) and complete Section E.
- \_\_\_\_\_ Initial NPDES permit for an existing treatment works with a wastewater discharge prior to October 1, 1996. (Complete Sections D and E)
- \_\_\_\_\_ Renewal NPDES permit or modification to an effective NPDES permit that will result in any of the following: (Complete Sections C and E)
- ▶ a new permit limitation for a pollutant that previously had no limitation, or
  - ▶ an increase in any mass or concentration limitation of any pollutant that currently has a limitation.

### C. Antidegradation Information

1. Does the PTI and/or NPDES permit application meet an exclusion as outlined by OAC 3745-1-05(D) (1) of the Antidegradation rule?

\_\_\_\_\_ Yes (Complete Question C.2)

\_\_\_\_\_ No (Complete Questions C.3 and C.4)

2. For projects that would be eligible for exclusions provide the following information:
- a. Provide justification for the exclusion.
  - b. Identify the substances to be discharged, including the amount of regulated pollutants to be discharged in terms of mass and concentration.
  - c. A description of any construction work, fill or other structures to occur or be placed in or near a stream bed.
3. Are you requesting a waiver as outlined by OAC 3745-1-05(D) (2-7) of the Antidegradation rule?

\_\_\_\_\_ No

\_\_\_\_\_ Yes

If you wish to pursue one of the waivers, please identify the waiver and submit the necessary information to support the request. Depending on the waiver requested, the information required under question C.4 may be required to complete the application.

4. For all projects that do not qualify for an exclusion a report must accompany this application evaluating the preferred design alternative, non-degradation alternatives, minimal degradation alternatives, and mitigative techniques/measures for the design and operation of the activity. The information outlined below should be addressed in this report. If a waiver is requested, this section is still required.
- a. Describe the availability, cost effectiveness and technical feasibility of connecting to existing central or regional sewage collection and treatment facilities, including long range plans for

sewer service outlined in state or local water quality management planning documents and applicable facility planning documents.

- b. List and describe all government and/or privately sponsored conservation projects that may have been or will be specifically targeted to improve water quality or enhance recreational opportunities on the affected water resource.
- c. Provide a brief description below of all treatment/disposal alternatives evaluated for this application and their respective operational and maintenance needs. (If additional space is needed please attach additional sheets to the end of this addendum).

Preferred design alternative:

Non-degradation alternative(s):

Minimal degradation alternative(s):

Mitigative technique/measure(s):

At a minimum, the following information must be included in the report for each alternative evaluated.

- d. Outline of the treatment/disposal system evaluated, including the costs associated with the equipment, installation, and continued operation and maintenance.
- e. Identify the substances to be discharged, including the amount of regulated pollutants to be discharged in terms of mass and concentration.
- f. Describe the reliability of the treatment/disposal system, including but not limited to the possibility of recurring operation and maintenance difficulties that would lead to increased degradation.
- g. Describe any impacts to human health and the overall quality and value of the water resource.
- h. Describe and provide an estimate of the important social and economic benefits to be realized through this proposed project. Include the number and types of jobs created and tax revenues generated.
- i. Describe environmental benefits to be realized through this proposed project.
- j. Describe and provide an estimate of the social and economic benefits that may be lost as a result of this project. Include the impacts on commercial and recreational use of the water resource.

- k. Describe the environmental benefits lost as a result of this project. Include the impact on the aquatic life, wildlife, threatened or endangered species.
- l. A description of any construction work, fill or other structures to occur or be placed in or near a stream bed.
- m. Provide any other information that may be useful in evaluating this application.

D. Discharge Information

- 1. For treatment/disposal systems constructed pursuant to a previously issued Ohio EPA PTI, provide the following information:

PTI Number \_\_\_\_\_  
 PTI Issuance Date \_\_\_\_\_  
 Initial Date of Discharge \_\_\_\_\_

- 2. Has the appropriate NPDES permit application form been submitted including representative effluent data?

\_\_\_\_\_ Yes (go to E)  
 \_\_\_\_\_ No (see below)

If no, submit the information as applicable under a OR b as follows:

- a. For entities discharging process wastewater attach a completed 2C form.
- b. For entities discharging wastewater of domestic origin attach the results of at least one chemical analysis of the wastestream for all pollutants for which authorization to discharge is being requested and a measurement of the daily volume (gallons per day) of wastewaters being discharged.

- E. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete.

This section must be signed by the same responsible person who signed the accompanying permit application or certification as per 40 CFR 122.22.

Signature *[Handwritten Signature]*  
 Date 3/21/2013