

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
WASTE MANAGEMENT**

FORM NO. 13-A
MODIFICATION TO SOLID WASTE DISPOSAL AND/OR PROCESSING PERMIT

Under the provisions of Act 97, the Pennsylvania Solid Waste Management Act, the Act of July 7, 1980, P.L. 380, 35 P.S. §§ 6018.101, *et seq.*, Solid Waste Permit Number 300370 reissued on May 22, 2015 to FirstEnergy Generation, LLC, 800 Cabin Hill Road, Greensburg, PA 15601 for operation of the Hatfield's Ferry Power Station Coal Combustion Byproduct Landfill located in Monongahela Township, Greene County is hereby modified as follows:

1. This permit modifies Solid Waste Permit No. 300370 originally issued to West Penn Power Company on March 31, 1998. It is issued in response to Solid Waste Management Permit Application No. 300370, Authorization Request No. 1067654, dated April 1, 2015 for acceptance of coal combustion wastes generated at FirstEnergy facilities other than the Hatfield's Ferry Power Station. The plans and specifications in the application, including subsequent revisions and addendum(s) submitted to the initial application, are approved by the Department and are enforceable as a part of this permit amendment.

This permit modification is issued based on the assumption that the information submitted in Solid Waste Management Permit Application No. 300370 designated as Authorization Request No. 1067654, referenced in Permit Condition No. 2, is accurate. Any inaccuracies found in this information may be grounds for the revocation or modification of this permit and potential enforcement action.

2. This approved application consists of the following documents:

<u>Form No./Letter</u>	<u>Form Title</u>	<u>Date (Revision)</u>
Form GIF	Permit Application - General Information	4/1/15
Form A	Application For Municipal or Residual Waste Permit	4/1/15 (7/29/15)
Form B	Professional Certification	4/1/15
Form B1	Application Form Certification	4/1/15
Form HWC	Compliance History – FirstEnergy Generation, LLC	4/1/15
Form 1R	Facility Plan	4/1/15 (7/29/15)
Form 12R	Operation Plan – Phase II	4/1/15 (8/21/15)
Form U	Request to Process or Dispose of Residual Waste	4/1/15 (7/29/15)
	Transportation Plan	7/29/15 (8/21/15)
	CCR Barge Transfer Area PPC Plan	4/24/15 (7/2/15)
Correspondence	Technical Review Letter Response	7/29/15
Correspondence	Elevated Review Response	8/21/15

This modification shall be attached to the existing Solid Waste Permit described above and shall become a part thereof effective on September 21, 2015.



FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

**PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
WASTE MANAGEMENT**

Permit No. 300370

3. This permit modification approves revisions to the Form 1R-Facility Plan and Form 12R-Operation Plan for the Hatfield's Ferry Power Station Coal Combustion Byproduct Landfill as described in the approved application providing for acceptance and disposal of coal combustion wastes generated at facilities operated by the permittee.
4. This permit modification authorizes disposal of the following solid wastes generated by the permittee for which a DEP Form U has been presented to and approved by the Department:

<u>Generating Facility</u>	<u>Waste Stream</u>
Hatfield Ferry Power Station	Fly Ash
	Bottom Ash
	IWWT Sludge (Ash Basin, Lagoon, Neutralizing Pit)
	Cooling Tower Sediment/Sludge
	Pyrites
	Spent Oil-Dry Material
	Spent Blasting Material
	Refractory Material
	Generic Construction/Demolition/Maintenance Wastes
	Flue Gas Desulfurization Residue
	FGD IWWT Bio-Sludge
	FGD IWWT Metals Sludge
	Basic Chemicals (Limestone, Ground Limestone, Limestone Slurry)
Bruce Mansfield Power Station	Flue Gas Desulfurization Residue
Fort Martin Power Station	Bottom Ash

In the event that any modifications are made to the process by which the waste streams identified in Condition No. 4 above are generated that substantially alters the physical and chemical composition of the waste or otherwise renders it inconsistent with the characterization presented in the approved application, the permittee shall submit a revised Form U recharacterizing that waste stream. Disposal of that waste stream at the permitted facility shall be prohibited until approval of the revised Form U is granted.

5. Bottom ash generated at the Fort Martin Power Station may only be accepted at the permitted facility for use in the protective cover and leachate collection system within the protective cover of the Phase 3 liner system.
6. This permit modification revises the Water Quality Monitoring Plan for the Hatfield's Ferry Power Station Coal Combustion Byproduct Landfill such that, upon resumption of disposal operations at the site, groundwater and surface water shall be monitored at the locations designated in Condition No. 21 of the May 4, 2009 modification of Permit No. 300370 on a calendar quarterly basis for the following parameters:

**PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
WASTE MANAGEMENT**

Permit No. 300370

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| • ammonia-nitrogen | • boron (total and dissolved) |
| • bicarbonate | • cadmium (total and dissolved) |
| • calcium (total and dissolved) | • chromium (total and dissolved) |
| • chloride | • chromium III (total and dissolved) |
| • fluoride | • chromium VI (total and dissolved) |
| • chemical oxygen demand | • copper (total and dissolved) |
| • nitrate-nitrogen | • lead (total and dissolved) |
| • pH (field and laboratory) | • mercury (total and dissolved) |
| • specific conductance (field and laboratory) | • selenium (total and dissolved) |
| • sulfate | • silver (total and dissolved) |
| • total alkalinity | • zinc (total and dissolved) |
| • total dissolved solids | • molybdenum (total and dissolved) |
| • total organic carbon | • thallium (total and dissolved) |
| • turbidity | • cyanide (total and dissolved) |
| • iron (total and dissolved) | • aluminum (total and dissolved) |
| • manganese (total and dissolved) | • antimony (total and dissolved) |
| • magnesium (total and dissolved) | • beryllium (total and dissolved) |
| • potassium (total and dissolved) | • cobalt (total and dissolved) |
| • sodium (total and dissolved) | • nickel (total and dissolved) |
| • arsenic (total and dissolved) | • vanadium (total and dissolved) |
| • barium (total and dissolved) | |

7. Wastes accepted at the site that are generated at locations other than the Hatfield's Ferry Power Station shall be transported in a manner which does not create a nuisance or is harmful to the public health, safety, or the environment and shall comply with the requirements of 25 Pa. Code Chapter 299. Flue Gas Desulfurization Residue generated at the Bruce Mansfield Power Station may only be transported for disposal at the site by barge.
8. The waste transported to the permitted facility by barge shall be covered, enclosed or otherwise treated or sealed as approved by the Department to prohibit fugitive dust dispersion. Manually wetting the material during transport with water will not be sufficient to satisfy this condition.
9. If there is a conflict between the application, its supporting documents and/or amendments and the terms and conditions of this permit, the terms and conditions of this permit shall apply.
10. Any independent contractors or agents retained by the permittee for the completion of processing and placement activities authorized under this permit shall be subject to compliance history review by the Department prior to performance of any activities, as specified by the Solid Waste Management Act of 1980, as amended.
11. Unless amended by this permit modification or a previously approved permit modification, all design and operational requirements set forth in Solid Waste Permit No. 300370 issued on March 31, 1998 remain valid for this permit modification.