

May 14, 2015  
L-15-170

Ryan C. Decker  
Department of Environmental Protection  
Bureau of Water Quality Management  
Southwest Region Office  
400 Waterfront Drive  
Pittsburgh, PA 15222

SUBJECT:  
**Beaver Valley Power Station Post Construction Certification NPDES Permit No. PA0025615**

Dear Mr. Decker:

As requested, enclosed is a copy of the Water Quality Management Permit 0473211-T1-A1, and the Post Construction Certification signed by a Professional Engineer and Charles McFeaters, Authorized Representative.

Sincerely,



Charles McFeaters  
Director, Site Operations

Enclosure(s)

- A. Copy of Water Quality Management Permit
- B. Post Construction Certification

cc: Document Control Desk US NRC (NOTE: No new US NRC commitments are contained in this letter.)  
US Environmental Protection Agency  
Ms. Amanda Schmidt, PA DEP/Bureau of Water Quality Management

COOL  
HRR



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

# WATER QUALITY MANAGEMENT PERMIT

PERMIT NO. 0473211-T1-A1AMENDMENT NO. 1APS ID. 311437AUTH. ID. 1044053

A. PERMITTEE (Name and Address): FirstEnergy Nuclear Operating Company 76 S Main Street Akron, OH 44308		CLIENT ID#: 140034	B. PROJECT/FACILITY (Name): Beaver Valley Power Station	
C. LOCATION (Municipality, County): Shippingport Borough, Beaver County			SITE ID#: 236413	
D. This amendment approves the construction and operation of industrial wastewater facilities consisting of: <ul style="list-style-type: none"> <li>New and upgraded chemical feed systems including tanks, pumps and piping for improved corrosion mitigation</li> <li>Operational changes will include continuous chlorination of the river and service water circulating water systems and associated dechlorination systems to reduce residual chlorine in the station's discharges</li> </ul>				
Pump Stations: _____ Design Capacity: _____ GPM		Manure Storage: Volume: _____ MG Freeboard: _____ inches	Industrial Wastewater Treatment Facility: Annual Average Flow: _____ MGD Design Hydraulic Capacity: _____ MGD Design Organic Capacity: _____ lb/day	
E. APPROVAL GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING: <ol style="list-style-type: none"> <li>All construction, operations and procedures shall be in accordance with the Water Quality Management Permit Amendment application dated <u>August 27, 2014</u> and its supporting documentation and addendums dated <u>January 30, 2015</u>, which are hereby made a part of this amendment. Except for any herein approved modifications, all terms, conditions, supporting documentation and addendums approved under Water Quality Management Permit No. <u>0473211-T1</u> shall remain in effect.</li> <li>Permit Conditions Relating to Industrial Wastewater are attached and made part of this permit.</li> </ol>				
F. THE AUTHORITY GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING FURTHER QUALIFICATIONS: <ol style="list-style-type: none"> <li>If there is a conflict between the application or its supporting documents and amendments and the attached conditions, the attached conditions shall apply.</li> <li>Failure to comply with the rules and regulations of DEP or with the terms or conditions of this permit shall void the authority given to the permittee by the issuance of this permit.</li> <li>This permit is issued pursuant to the Clean Streams Law Act of June 22, 1937, P.L. 1987, as amended 35 P.S. §691.1 et seq. Issuance of this permit shall not relieve the permittee of any responsibility under any other law.</li> </ol>				
PERMIT ISSUED:  <b>FEB 12 2015</b>		BY: <u>Chris Kriley</u> Christopher Kriley, P.E. TITLE: Clean Water Program Manager Southwest Regional Office		



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

**PERMIT CONDITIONS RELATING TO INDUSTRIAL WASTEWATER**

For use in Water Quality Management Permits

(Check boxes that apply)

**General**

- ☒ 1. DEP considers the licensed Professional Engineer whose seal is affixed to the design documents to be fully responsible for the adequacy of all aspects of the facility design.
- ☒ 2. All relevant and non-superseded conditions of any prior Water Quality Management Permits, decrees or orders issued to the permittee or his predecessor shall be continued in full force and effect and together with the provisions of this permit shall apply to his successors, lessees, heirs and assigns.
- ☒ 3. The responsibility for implementing the conditions of this permit shall rest upon the owner, lessee, assignee or other party in responsible managerial charge of the operation producing the wastewaters and waste treatment facilities. Transfer of a permit to a new owner shall not be effective until said transfer has been executed and filed on forms provided by DEP and DEP approved the transfer.
- ☒ 4. The permittee shall secure any necessary permission from the proper federal authority for any outfall or industrial waste treatment structure which discharges into or enters navigable waters and shall obtain a separate permit for any stream crossing, encroachment or change of natural stream conditions within the jurisdiction of DEP.
- ☒ 5. When construction of the approved facilities is completed and before they are placed in operation, the permittee shall notify DEP in writing so that a DEP representative may inspect the facilities.
- ☒ 6. The approval of the plans, and the authority granted in this permit, if not specifically extended, shall cease and be null and void 2 years from the issuance date of this permit unless construction or modification of the facilities covered by this permit has begun on or before the second anniversary of the permit date.
- ☒ 7. The authority granted by this permit is subject to all effluent requirements, monitoring requirements and other conditions as set forth in NPDES Permit No. **PA0025615** and all subsequent amendments and renewals. No discharge is authorized from these facilities unless approved by an NPDES Permit.
- ☒ 8. Nothing herein shall be construed to be an intent on the part of DEP to approve any present or future act by the permittee, inconsistent with the permittee's lawful powers or with existing laws of this Commonwealth regulating industrial wastes and the practice of professional engineering. This permit shall not be construed to sanction any act otherwise forbidden by any of the laws of the Commonwealth of Pennsylvania or of the United States.

**Construction**

- ☒ 9. This permit is issued under the authorization of The Clean Streams Law and 25 Pa. Code Chapter 91. The permittee shall obtain all necessary permits, approvals and/or registrations under 25 Pa. Code Chapters 102, 105 and 106 prior to commencing construction of the facilities authorized by this permit, as applicable. The permittee should contact the DEP office that issued this permit if there are any questions concerning the applicability of additional permits.
- ☒ 10. The facilities shall be constructed under expert engineering supervision and competent inspection, in accordance with plans, designs and other data as herein approved or amended and with the conditions of this permit.
- ☒ 11. A Pennsylvania licensed Professional Engineer shall certify that construction of the permitted facilities was completed in accordance with the application and design plans submitted to DEP, using the "Post Construction Certification" form (3800-PM-WSFR0179a). It is the permittee's responsibility to ensure that a Professional Engineer is on-site to provide the necessary oversight and/or inspections to certify the facilities. The certification must be submitted to DEP before the facility is placed in operation. As-built drawings, photographs (if available) and a description of all deviations from the application and design plans must be submitted to DEP within 30 days of certification.

- ☒ 12. The DEP office that issued this permit must be contacted during construction if significant changes are proposed to the approved facilities. Significant changes include, but are not limited to changes to the type(s) of process(es) used for treatment and changes to the design capacities of tanks, impoundments, and conveyance structures or equipment by more than 5% of the original design. For projects involving PENNVEST funding, all changes should be discussed with the DEP project manager prior to implementation. DEP may require the submission of an application to amend this permit. All changes shall be documented in an attachment to the Post Construction Certification form.
- ☒ 13. The local Waterways Conservation Officer of the Pennsylvania Fish and Boat Commission (PFBC) shall be notified when the construction of any stream crossing and/or outfall is started and completed. A written permit must be secured from the PFBC if the use of explosives in any waterways is required and the local Waterways Conservation Officer must be notified when explosives are to be used.

#### **Operation and Maintenance**

- ☒ 14. If at any time the industrial waste treatment facility, or the discharge of the effluent creates a public nuisance, or such discharge is causing or contributing to pollution of the waters of this Commonwealth, the permittee shall immediately adopt remedial measures acceptable to DEP.
- ☒ 15. The permittee shall maintain records of "as-built" plans showing all the treatment facilities as actually constructed together with facility operation and maintenance (O&M) manuals and any other relevant information that may be required. Upon request, the "as-built" plans and O&M manuals shall be filed with DEP.
- ☒ 16. To ensure operational efficiency and protect the waters of this Commonwealth, the permittee shall maintain skilled operators at all times.
- ☒ 17. No stormwater, sewage or other industrial wastes not specifically approved herein shall be admitted to the facilities for which this permit is issued.
- ☒ 18. These industrial waste treatment facilities shall be operated and maintained to perform as designed. In order to ensure the efficiency and proper maintenance of the treatment facilities, the permittee shall make periodic inspections to detect any impairment of structural stability, adequate capacity or other requisites which might impair the effectiveness of the approved facilities.
- ☒ 19. Collected screenings, slurries, sludge and other solids shall be handled and disposed of in compliance with Title 25 Pa. Code Chapters 287, 288, 291, 297 and 299 (related to permits and requirements for land filling, land application, incineration and storage of industrial sludge), Federal Regulations 40 CFR 257 and the Federal Clean Water Act and its amendments.



**WATER QUALITY MANAGEMENT  
POST CONSTRUCTION CERTIFICATION**

**PERMITTEE IDENTIFIER**

Permittee	FirstEnergy Nuclear Operating Company
Municipality	Shippingport Borough
County	Beaver
WQM Permit No.	0473211-T1, Amendment No. 1
Facility Type	Industrial Waste

**All of the above information should be taken directly from the Water Quality Management Permit.**

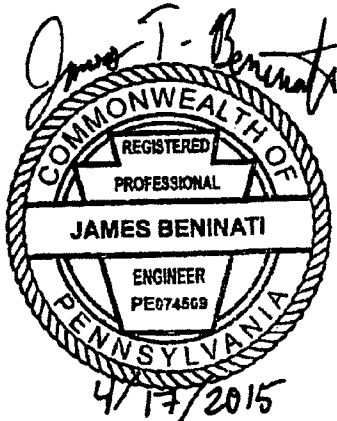
**CERTIFICATION**

This certification must be completed and returned to the permits section of the DEP's regional office issuing the WQM permit within 30 days of completion of the project and received by DEP prior to operation, and if requested, as-built drawings, photographs (if available) and a discussion of any DEP-approved deviations from the design plans during construction.

I, being a Registered Professional Engineer in Pennsylvania, do hereby certify to the best of my knowledge and belief, based upon personal observation and interviews, that the above facility approved under the Water Quality Management Permit has been constructed in accordance with the plans, specifications and modifications approved by DEP.

Construction Completion Date (MM/DD/YYYY): 05/14/2015

Engineer's  
Seal



**Professional Engineer**

Name	James Beninati (Please Print or Type)
Signature	<i>James T. Beninati</i>
Date	April 17, 2015
License Expiration Date	September 30, 2015
Firm or Agency	HDR Engineering, Inc.
Telephone	412-497-6000

**Permittee or Authorized Representative**

Name	Charles McFeeters (Please Print or Type)
Signature	<i>[Signature]</i>
Title	Director Site Operations
Telephone	724-482-7773