



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION I  
2100 RENAISSANCE BOULEVARD, SUITE 100  
KING OF PRUSSIA, PA 19406-2713

June 20, 2018

Mr. Richard Bologna  
Site Vice President  
First Energy Nuclear Operating Company  
Beaver Valley Power Station  
P. O. Box 4 – Route 168  
Shippingport, PA 15077-0004

SUBJECT: BEAVER VALLEY POWER STATION, UNIT NOS. 1 AND 2  
EVALUATED EMERGENCY PREPAREDNESS EXERCISE  
INSPECTION REPORT 05000334/2018501 AND 05000412/2018501

Dear Mr. Bologna:

On June 14, 2018, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Beaver Valley Power Station, Units 1 and 2. The NRC inspectors discussed the results of this inspection with you and other members of your staff. The results of this inspection are documented in the enclosed report.

The NRC inspectors did not identify any findings or violations of more than minor significance.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and the NRC Public Document Room in accordance with 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

*/RA/*

Raymond R. McKinley, Chief  
Plant Support Branch  
Division of Reactor Safety

Docket Numbers: 50-334 and 50-412  
License Numbers: DPR-66 and NPF-73

Enclosure:  
Inspection Report 05000334/2018501  
and 05000412/2018501

cc: Distribution via ListServ  
T. Scardino, RAC Chair, FEMA Region III

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 DATED JUNE 20, 2018

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 18\2018 BV EP Exercise Report.docx ADAMS ACCESSION NUMBER: ML18172A028

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**U.S. NUCLEAR REGULATORY COMMISSION  
Inspection Report**

Docket Numbers: 50-334 and 50-412

License Numbers: DPR-66 and NPF-73

Report Number: 05000334/2018501 and 05000412/2018501

Enterprise Identifier: I-2018-501-0038

Licensee: FirstEnergy Nuclear Operating Company (FENOC)

Facility: Beaver Valley Power Station, Units 1 and 2

Location: Shippingport, PA 15077

Inspection Dates: June 11 – June 14, 2018

Inspectors: J. Ambrosini, Senior Emergency Preparedness Inspector  
Division of Reactor Safety (DRS)  
E. Burket, Reactor Inspector, DRS  
C. Crisden, Allegations/Enforcement Specialist, DRS  
J. DeBoer, Emergency Preparedness Inspector, DRS  
D. Silk, Senior Operations Engineer, DRS

Approved By: R. McKinley, Chief  
Plant Support Branch  
Division of Reactor Safety

Enclosure

**SUMMARY**

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring FirstEnergy Nuclear Operating Company's (FENOC's) performance at Beaver Valley Power Station Units 1 and 2 by conducting an evaluated emergency preparedness exercise inspection in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the NRC's program for overseeing the safe operation of commercial nuclear power reactors. Refer to <https://www.nrc.gov/reactors/operating/oversight.html> for more information.

No findings or more-than-minor violations were identified.

## **INSPECTION SCOPE**

The inspectors conducted the inspection using the appropriate portions of the inspection procedure in effect at the beginning of the inspection unless otherwise noted. Currently, approved inspection procedures with their attached revision histories are located on the public website at <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards. The inspectors determined the following samples were complete when the inspection procedure requirements were met consistent with Inspection Manual Chapter 2515, "Light-Water Reactor Inspection Program - Operations Phase."

## **REACTOR SAFETY**

### 71114.01 - Exercise Evaluation (1 sample)

The inspectors evaluated the adequacy of FENOC's conduct of the exercise and its capability to assess staff performance via a formal critique process, as required by Title 10 of the *Code of Federal Regulations* (10 CFR) 50.47(b)(14).

### 71114.08 - Exercise Evaluation – Scenario Review (1 sample)

The inspectors reviewed and evaluated the proposed scenario for biennial emergency plan exercise on May 11.

### 71151 - Performance Indicator Verification (3 samples)

The inspectors verified licensee performance indicators submittals listed below for the period from April 2017 through March 2018.

- (1) Drill and Exercise Performance
- (2) Emergency Response Organization Drill Participation
- (3) Alert and Notification System

## **EXIT MEETINGS AND DEBRIEFS**

The inspectors verified that no proprietary information was retained or documented in this report. On June 14, the inspectors presented the inspection results to Richard Bologna, Site Vice President, and other members of the Beaver Valley Power Station staff.

**LIST OF DOCUMENTS REVIEWED**Section 1EP1: Exercise Evaluation

Beaver Valley Power Station Emergency Preparedness Plan  
 Beaver Valley Power Station Emergency Preparedness Plan Implementing Procedures  
 Beaver Valley Power Station June 12, 2018 Evaluated Exercise Scenario Package  
 Beaver Valley Power Station Drill Reports 2016-2018

Condition Reports

CR-2018-05482	CR-2018-05492	CR-2018-05490
CR-2018-05481	CR-2018-05491	CR-2018-05470
CR-2018-05498	CR-2018-05497	CR-2018-05488

Section 1EP8: Exercise Evaluation – Scenario Review

Beaver Valley Power Station Emergency Preparedness Plan  
 Beaver Valley Power Station Emergency Preparedness Plan Implementing Procedures  
 Beaver Valley Power Station June 12, 2018 Evaluated Exercise Scenario Package  
 Beaver Valley Power Station Drill Reports 2016-2018

Section 4OA1: Performance Indicator (PI) Verification

DEP PI data, April 2017 – March 2018  
 ERO Drill Participation PI data, April 2017 – March 2018  
 ANS Reliability PI data, April 2017 – March 2018