



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION I
2100 RENAISSANCE BLVD., SUITE 100
KING OF PRUSSIA, PA 19406-2713

July 29, 2014

Mr. Eric Larson, Site Vice President
FirstEnergy Nuclear Operating Company
Beaver Valley Power Station
P. O. Box 4, Route 168
Shippingport, PA 15077

**SUBJECT: BEAVER VALLEY POWER STATION: NRC EVALUATED EMERGENCY
PREPAREDNESS EXERCISE – INSPECTION REPORT 05000334/2014502
AND 05000412/2014502**

Dear Mr. Larson:

On June 20, 2014, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection of the June 17, 2014, evaluated emergency preparedness exercise at your Beaver Valley Power Station, Units 1 and 2. The enclosed inspection report documents the inspection results, which were discussed on June 19, 2014, with you and other members of your staff.

The inspection examined activities conducted under your licenses as they relate to safety and compliance with the Commission's rules and regulations and with the conditions of your licenses. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel.

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

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390, "Public Inspections, Exemptions, Requests for Withholding," of the NRC's "Rules of Practice," a copy of this letter and its enclosure and your response (if any) will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of the NRC's document system, Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

/RA/

Anthony Dimitriadis, Chief
Plant Support Branch 1
Division of Reactor Safety

Mr. Eric Larson, Site Vice President
 FirstEnergy Nuclear Operating Company
 Beaver Valley Power Station
 P. O. Box 4, Route 168
 Shippingport, PA 15077

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Sincerely,

/RA/

Anthony Dimitriadis, Chief
 Plant Support Branch 1
 Division of Reactor Safety

Docket Nos.: 50-334, 50-412
 License Nos.: DPR-66, NPF-73

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 ADAMS Accession No.: ML14211A045

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E. Larson

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Enclosure:

NRC Inspection Report Nos. 05000334/2014502
and 05000412/2014502

w/Attachment: Supplementary Information

cc w/encl: Distribution via ListServ

J. Price, RAC Chair, Acting, FEMA Region III

G. Cannon, Director, PA Emergency Management Agency (PEMA) and Office
of Homeland Security Advisor

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U.S. NUCLEAR REGULATORY COMMISSION

REGION I

Docket Nos.: 50-334, 50-412

License Nos.: DPR-66, NPF-73

Report No.: 05000334/2014502 and 05000412/2014502

Licensee: FirstEnergy Nuclear Operating Company (FENOC)

Facility: Beaver Valley Power Station, Units 1 and 2

Location: Shippingport, PA 15077

Dates: June 16-20, 2014

Inspectors: S. Barr, Senior Emergency Preparedness Inspector,
Division of Reactor Safety (DRS), Region I (Lead)
E. Burket, Emergency Preparedness Inspector, DRS, Region I
B. Fuller, Senior Operations Inspector, DRS, Region I
T. Hedigan, Operations Inspector, DRS, Region I
J. Nance, Senior Resident Inspector (Acting), Beaver Valley
J. Laughlin, Emergency Preparedness Specialist, NSIR

Approved By: Anthony Dimitriadis, Chief
Plant Support Branch 1
Division of Reactor Safety

SUMMARY OF FINDINGS

IR 05000334/2014502, 05000412/2014502; 06/16/2014 – 06/20/2014; Beaver Valley Power Station, Units 1 and 2; Exercise Evaluation – Hostile Action (HA) Event; Exercise Evaluation – Scenario Review; Performance Indicator Verification.

This report covers an announced inspection conducted by four Region I-based inspectors, one Headquarters-based inspector, and one resident inspector. No findings were identified during the inspection. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process," Revision 5.

Cornerstone: Emergency Preparedness

No findings were identified.

REPORT DETAILS

1. REACTOR SAFETY

Cornerstone: Emergency Preparedness (EP)

1EP7 Exercise Evaluation – Hostile Action Event (71114.07 – 1 Sample)

a. Inspection Scope

Title 10 of the *Code of Federal Regulations* (10 CFR), Part 50, Appendix E, Section IV.F.2.j, requires in part that nuclear power reactor licensees, in each eight calendar year exercise cycle, provide the opportunity for their emergency response organization (ERO) to demonstrate proficiency in the key skills necessary to respond to a hostile action (HA) directed at the plant site. FirstEnergy Nuclear Operating Company (FENOC) designed the June 17, 2014, Beaver Valley EP exercise to satisfy that requirement, and the U.S. Nuclear Regulatory Commission (NRC) inspected the Beaver Valley HA event exercise to assess FENOC's ability to effectively implement the Beaver Valley Emergency Plan during an HA event. This overall exercise inspection activity represented the completion of one sample on a biennial cycle.

The exercise evaluation consisted of the following review and assessment:

- The adequacy of the FENOC Beaver Valley ERO's performance in the biennial full-participation exercise regarding the implementation of the planning standards described in 10 CFR 50.47(b) (4), (5), (9), and (10), which are: emergency classification; offsite notification; radiological assessment; onsite protective actions, and public protective action recommendations, respectively.
- The overall adequacy of FENOC's emergency response facilities with regard to Emergency Plan commitments. The facilities assessed were the Control Room Simulator, the Alternative Facility (AF), the Central Alarm Station (CAS), the local law enforcement Incident Command Post (ICP), and the Emergency Operations Facility (EOF).
- A review of other performance areas, such as the FENOC ERO's: recognition of abnormal plant conditions; command and control, including interactions with site security staff; intra- and inter-facility communications; prioritization of mitigating activities; utilization of repair and field monitoring teams; interface with offsite agencies, including local law enforcement agencies; staffing and procedure adequacy; and the overall implementation of the Beaver Valley Emergency Plan and their implementing procedures.
- A review of past performance issues from the last NRC Beaver Valley exercise inspection report and recent FENOC Beaver Valley EP drill reports, to determine the effectiveness of licensee corrective actions as demonstrated during the June 17, 2014, exercise and to ensure compliance with 10 CFR 50.47(b)(14).

Enclosure

- The licensee's post-exercise critiques, to evaluate FENOC's self-assessment of its Beaver Valley ERO performance during the June 17, 2014, exercise and to ensure compliance with 10 CFR Part 50, Appendix E, Section IV.F.2.g.

The inspectors reviewed the documents listed in the attachment to this report.

b. Findings

No findings were identified.

1EP8 Exercise Evaluation – Scenario Review (71114.08 – 1 Sample)

a. Inspection Scope

Prior to the June 17, 2014, EP exercise, the NRC inspectors conducted an in-office review of the exercise objectives and scenario, which FENOC had submitted to the NRC, to determine if the exercise would test major elements of the Beaver Valley Emergency Plan as required by 10 CFR 50.47(b)(14). This overall exercise inspection activity represented the completion of one sample on a biennial cycle.

The inspectors reviewed the documents listed in the attachment to this report.

b. Findings

No findings were identified.

4. OTHER ACTIVITIES (OA)

4OA1 Performance Indicator Verification (71151 – 3 Samples)

a. Inspection Scope

The inspectors reviewed data for the Beaver Valley EP Performance Indicators (PI), which are: (1) Drill and Exercise Performance (DEP) (EP01); (2) ERO Drill Participation (EP02); and (3) Alert and Notification System (ANS) Reliability (EP03). The last NRC EP PI inspection at Beaver Valley was conducted in the third calendar quarter of 2013, so the inspectors reviewed supporting documentation from EP drills and tests from the third calendar quarter of 2013 through the first calendar quarter of 2014, to verify the accuracy of the reported PI data. The review of these PIs was conducted in accordance with NRC Inspection Procedure 71151, using the acceptance criteria documented in NEI 99-02, "Regulatory Assessment Performance Indicator Guidelines," Revision 7.

This inspection activity represented the completion of three samples.

b. Findings

No findings were identified.

4OA6 Meetings, including Exit

On June 19, 2014, the inspectors presented the results of this inspection to Mr. E. Larson, Site Vice President, and other members of the FENOC staff. The inspectors verified that no proprietary information was retained by the inspectors or documented in this report.

ATTACHMENT
SUPPLEMENTAL INFORMATION
KEY POINTS OF CONTACT

Licensee Personnel

E. Larson, Site Vice President
S. Sawtschenko, Emergency Preparedness Manager

LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

None.

LIST OF DOCUMENTS REVIEWED

Section 1EP7: Exercise Evaluation – Hostile Action (HA) Event

Miscellaneous

Beaver Valley Power Station Emergency Preparedness Plan, Revision 30
Emergency Preparedness Plan Implementing Procedures, Table of Contents Revision 155
Beaver Valley Power Station 2014 Evaluated Exercise Scenario Package
Condition Reports documented in the Beaver Valley Power Station June 17, 2014, Evaluated
Exercise Report, dated July 16, 2014

Section 1EP8: Exercise Evaluation – Scenario Review

Miscellaneous

Beaver Valley Power Station Emergency Preparedness Plan, Revision 30
Beaver Valley Power Station 2014 Evaluated Exercise Scenario Package
1/2-EPP-IP-7.2, Administration of Emergency Preparedness Plan, Drills and Exercises,
Revision 3

Section 4OA1: Performance Indicator (PI) Verification

Miscellaneous

1/2-ADM-1111, NRC EPP Performance Indicator Instructions, Revision 9
DEP PI data, July 2013 – March 2014
ERO Drill Participation PI data, July 2013 – March 2014
ANS Reliability PI data, July 2013 – March 2014

LIST OF ACRONYMS

ADAMS	Agencywide Documents Access and Management System
AF	Alternative Facility
ANS	Alert Notification System
CAS	Central Alarm Station
CFR	Code of Federal Regulations
DEP	Drill and Exercise Performance
EOF	Emergency Operations Facility
EP	Emergency Preparedness
EPP	Emergency Preparedness Plan
ERO	Emergency Response Organization
FENOC	First Energy Nuclear Operating Company
HA	Hostile Action
ICP	Incident Command Post
NEI	Nuclear Energy Institute
NRC	Nuclear Regulatory Commission
PAR	Protective Action Recommendation
PI	Performance Indicator
RSPS	Risk Significant Planning Standard