



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION I
2100 RENAISSANCE BLVD.
KING OF PRUSSIA, PA 19406-2713

August 2, 2017

Mr. Bryan C. Hanson
Senior Vice President, Exelon Generation Company, LLC
President and Chief Nuclear Officer, Exelon Nuclear
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: JAMES A. FITZPATRICK NUCLEAR POWER PLANT – EVALUATED
EMERGENCY PREPAREDNESS EXERCISE INSPECTION REPORT
05000333/2017502

Dear Mr. Hanson:

On July 27, 2017, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection of the July 25, 2017, evaluated emergency preparedness exercise at your James A. FitzPatrick Nuclear Power Plant. On July 27, 2017, the NRC inspectors discussed the results of this inspection with Mr. Joseph Pacher, Site Vice President, and other members of your staff. The results of this inspection are documented in the enclosed report.

The NRC inspectors did not identify any finding or violation 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 1
Division of Reactor Safety

Docket No. 50-333
License No. DPR-59

Enclosure:
Inspection Report 05000333/2017502
w/Attachment: Supplementary Information

cc w/encl: Distribution via ListServ
S. O'Neill, RAC Chair, DHS/FEMA, Region II

SUBJECT: JAMES A. FITZPATRICK NUCLEAR POWER PLANT – EVALUATED
 EMERGENCY PREPAREDNESS EXERCISE INSPECTION REPORT
 05000333/2017502 dated August 2, 2017

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U.S. NUCLEAR REGULATORY COMMISSION**REGION I**

Docket No. 50-333

License No. DPR-59

Report No. 05000333/2017502

Licensee: Exelon Generation Company (Exelon)

Facility: James A. FitzPatrick Nuclear Power Plant

Location: Scriba, NY

Dates: July 24–27, 2017

Inspectors: J. DeBoer, Emergency Preparedness Inspector, Division of Reactor Safety (DRS), Region I (Lead)
J. Ambrosini, Sr. Emergency Preparedness Inspector, DRS, Region I
D. Silk, Senior Operations Inspector, DRS, Region I
T. Dunn, Operations Inspector, DRS, Region I

Approved By: Raymond R. McKinley, Chief
Plant Support Branch 1
Division of Reactor Safety

SUMMARY

IR 05000333/2017502; 07/24/2017 – 07/27/2017; James A. FitzPatrick Nuclear Power Plant; Exercise Evaluation, Exercise Evaluation – Scenario Review, Performance Indicator Verification.

This was an announced inspection conducted by four Region I-based inspectors. 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 6.

Cornerstone: Emergency Preparedness

A. NRC-Identified and Self-Revealing Findings

No findings were identified.

B. Licensee-Identified Findings

None.

REPORT DETAILS

1. REACTOR SAFETY

Cornerstone: Emergency Preparedness

1EP1 Exercise Evaluation (71114.01 – 1 sample)

a. Inspection Scope

On July 25, 2017, Exelon conducted a James A. FitzPatrick Nuclear Power Plant (FitzPatrick) biennial emergency preparedness exercise. The NRC inspectors evaluated the adequacy of the licensee's conduct of the exercise and its capability to assess the Exelon staffs performance via a formal critique process, as required by Title 10 of the *Code of Federal Regulations* (10 CFR) 50.47(b)(14). 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 Exelon'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, and, onsite protective actions and public protective action recommendations, respectively.
- The overall adequacy of Exelon's emergency response facilities with regard to FitzPatrick Emergency Plan commitments. The facilities assessed were the Control Room Simulator, the Technical Support Center, and the Emergency Operations Facility.
- A review of other performance areas, such as: the licensee emergency response organization's (ERO) recognition of abnormal plant conditions, command and control, intra- and inter-facility communications, prioritization of mitigating activities, utilization of repair and field monitoring teams, interface with offsite agencies, staffing and procedure adequacy, and, the overall implementation of the FitzPatrick Emergency Plan and its implementing procedures.
- A review of past performance issues from the last NRC FitzPatrick exercise inspection report and Exelon's emergency preparedness drill reports, to determine the effectiveness of licensee corrective actions as demonstrated during the July 25, 2017, exercise and to ensure compliance with 10 CFR 50.47(b)(14).
- The licensee's post-exercise critiques, to evaluate Exelon's self-assessment of its ERO performance during the July 25, 2017, exercise and to ensure compliance with 10 CFR Part 50, Appendix E, Section IV.F.2.g.

Documents reviewed for each section of this inspection report are listed in the Attachment.

b. Findings

No findings were identified.

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

a. Inspection Scope

Prior to the July 25, 2017, emergency preparedness exercise, the NRC inspectors conducted an in-office review of the exercise objectives and scenario, which Exelon had submitted to the NRC, to determine if the exercise would test major elements of the FitzPatrick 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.

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 FitzPatrick Emergency Preparedness performance indicators, which are: (1) Drill and Exercise Performance, (2) ERO Drill Participation, and, (3) Alert and Notification System Reliability. The last emergency preparedness inspection at FitzPatrick was conducted in the third calendar quarter of 2016, so the inspectors reviewed supporting documentation from emergency preparedness drills and tests from the third calendar quarter of 2016 through the second calendar quarter of 2017, to verify the accuracy of the reported performance indicator data. The review of these performance indicators was conducted in accordance with NRC Inspection Procedure 71151, using the acceptance criteria documented in Nuclear Energy Institute Document 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 July 27, 2017, the inspectors presented the results of this inspection to Mr. Joseph Pacher, Site Vice President, and other members of the Exelon staff. The inspectors verified that no proprietary information was retained by the inspectors or documented in this report.

ATTACHMENT: SUPPLEMENTARY INFORMATION

SUPPLEMENTARY INFORMATION

KEY POINTS OF CONTACT

Licensee Personnel

J. Pacher, Site Vice President
J. Jones, Emergency Planning Manager
P. Cullinan, Senior Emergency Preparedness Specialist

LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

None.

LIST OF DOCUMENTS REVIEWED

Section 1EP1: Exercise Evaluation

James A. FitzPatrick Emergency Plan, Revision 33 (Table of Contents)
James A. FitzPatrick Exercise Subject Report, dated May 24, 2017
James A. FitzPatrick Emergency Plan Implementing Procedures
James A. FitzPatrick Emergency Preparedness Drill Reports, July 2015-June 2017

Section 1EP8: Exercise Evaluation – Scenario Review

James A. FitzPatrick Exercise Subject Report, dated May 24, 2017

Section 4OA1: Performance Indicator (PI) Verification

EN-FAP-EP-005, Emergency Preparedness Performance Indicators, Revision 6
EN-LI-114, Performance Indicator Process, Revision 7
DEP PI data, July 2016-June 2017
ERO Drill Participation PI data, July 2016-June 2017
ANS Reliability PI data, July 2016-June 2017

LIST OF ACRONYMS

CFR	<i>Code of Federal Regulations</i>
ERO	Emergency Response Organization
NRC	Nuclear Regulatory Commission