



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

February 28, 2018

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: ANNUAL ASSESSMENT LETTER FOR JAMES A. FITZPATRICK NUCLEAR
POWER PLANT (REPORTS 05000333/2017006, 05000333/2017402, AND
05000333/2017501)

Dear Mr. Hanson:

The NRC has completed its end-of-cycle performance assessment of James A. FitzPatrick Nuclear Power Plant (FitzPatrick), reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2017 through December 31, 2017. This letter informs you of the NRC's assessment of your facility during this period and our plans for future inspections at your facility. The NRC concluded that overall performance at your facility preserved public health and safety.

The NRC determined that the performance at FitzPatrick during the most recent quarter was within the Licensee Response Column, the highest performance category of the NRC's Reactor Oversight Process (ROP) Action Matrix, because all inspection findings had very low safety significance (i.e., Green), and all PIs were within the expected range (i.e., Green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through December 31, 2019. This updated inspection plan now includes planned security inspections which were formerly transmitted under separate correspondence. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

In addition to the baseline inspections, the NRC plans to conduct Inspection Procedure 60855.1, "Operation of an Independent Spent Fuel Storage Installation at Operating Plants," at your facility.

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

Please contact me at (610)337-6953 with any questions you have regarding this letter.

Sincerely,

/RA/

Anthony Dimitriadis, Chief
Reactor Projects Branch 5
Division of Reactor Projects

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

Enclosure:
Inspection Activity Plan Report

cc w/encl: Distribution via ListServ

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ADAMS ACCESSION NUMBER: **ML18058B215**

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OFFICIAL RECORD COPY

IP 22 Inspection Activity Plan Report

FitzPatrick

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
ACCESS AUTH & CONTROL, SGI CONTROL, FFD						3
1	02/26/2018	03/02/2018	IP 71130.01	000733	Access Authorization	
1	02/26/2018	03/02/2018	IP 71130.02	000734	Access Control	
1	02/26/2018	03/02/2018	IP 71130.06	000738	Protection of Safeguards Information	
1	02/26/2018	03/02/2018	IP 71130.08	000740	Fitness For Duty Program	
1	02/26/2018	03/02/2018	IP 71151	001338	Performance Indicator Verification	
FITZ REQUAL INSP W/ P/F RESULTS						2
1	03/19/2018	03/23/2018	IP 71111.11A	000703	Licensed Operator Requalification Program and Licensed Operator Performance - Annual	
1	03/19/2018	03/23/2018	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance - Biennial	
50.59 PROCESS						3
1	03/26/2018	03/30/2018	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
RAD SAFETY INSPECTION						1
1	03/26/2018	03/30/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	03/26/2018	03/30/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1	03/26/2018	03/30/2018	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1	03/26/2018	03/30/2018	IP 71124.04	000729	Occupational Dose Assessment	
FITZPATRICK INITIAL OL EXAM						4
1	04/16/2018	04/20/2018	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1	05/21/2018	05/25/2018	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
TRIENNIAL HEAT SINK						1
1	06/11/2018	06/15/2018	IP 71111.07T	000700	Heat Sink Performance -Triennial	
Radwaste						1
1	06/25/2018	06/29/2018	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
EP PROGRAM INSPECTION						1
1	07/16/2018	07/20/2018	IP 71114.02	000717	Alert and Notification System Testing	
1	07/16/2018	07/20/2018	IP 71114.03	000718	Emergency Preparedness Organization Staffing and Augmentation System	

This report does not include INPO and OUTAGE activities.

This report shows only on-site and announced inspection procedures.

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Enclosure

IP 22 Inspection Activity Plan Report

FitzPatrick

01/01/2018 - 12/31/2019

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EP PROGRAM INSPECTION						1
1	07/16/2018	07/20/2018	IP 71114.05	000720	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	07/16/2018	07/20/2018	IP 71151	001397	Performance Indicator Verification	
RETS						1
1	07/16/2018	07/20/2018	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1	07/16/2018	07/20/2018	IP 71151	000746	Performance Indicator Verification	
MC&A						1
1	08/06/2018	08/10/2018	IP 71130.11	000742	Material Control and Accounting (MC&A)	
RAD INSTRUMENTATION						1
1	08/13/2018	08/17/2018	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1	08/13/2018	08/17/2018	IP 71151	000746	Performance Indicator Verification	
UNIT 1 INSERVICE INSPECTION						1
1	09/24/2018	09/28/2018	IP 71111.08G	000701	Inservice Inspection Activities - BWR	
RAD SAFETY INSPECTION						1
1	09/24/2018	09/28/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	09/24/2018	09/28/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1	09/24/2018	09/28/2018	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1	09/24/2018	09/28/2018	IP 71124.04	000729	Occupational Dose Assessment	
1	09/24/2018	09/28/2018	IP 71151	000746	Performance Indicator Verification	
FITZPATRICK INITIAL OL EXAM						4
1	12/10/2018	12/14/2018	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1	01/14/2019	01/25/2019	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
RAD SAFETY 01,02,03,04						1
1	04/22/2019	04/26/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	04/22/2019	04/26/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1	04/22/2019	04/26/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1	04/22/2019	04/26/2019	IP 71124.04	000729	Occupational Dose Assessment	
PI&R BIENNIAL						4
1	04/22/2019	04/26/2019	IP 71152B	000747	Problem Identification and Resolution	

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This report shows only on-site and announced inspection procedures.

IP 22 Inspection Activity Plan Report

FitzPatrick

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
PI&R BIENNIAL						4
1	05/06/2019	05/10/2019	IP 71152B	000747	Problem Identification and Resolution	
EP EXERCISE INSPECTION						5
1	04/24/2019	06/28/2019	IP 71114.08	000723	Exercise Evaluation □ Scenario Review	
1	06/24/2019	06/28/2019	IP 71114.01	000716	Exercise Evaluation	
1	06/24/2019	06/28/2019	IP 71151	001397	Performance Indicator Verification	
PROTECTIVE STRATEGY & TARGET SET REVIEW						3
1	06/03/2019	06/07/2019	IP 71130.05	000737	Protective Strategy Evaluation	
1	06/03/2019	06/07/2019	IP 71130.14	000743	Review of Power Reactor Target Sets	
ISFSI Loading Campaign Inspection						2
1	06/24/2019	06/28/2019	IP 60855	001001	Operation Of An ISFSI	
1	06/24/2019	06/28/2019	IP 60855.1	000590	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
RAD SAFETY 01,02,03,04						1
1	06/24/2019	06/28/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	06/24/2019	06/28/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1	06/24/2019	06/28/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1	06/24/2019	06/28/2019	IP 71124.04	000729	Occupational Dose Assessment	
Design Basis Assurance Inspection						6
1	07/15/2019	07/19/2019	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
1	07/29/2019	08/02/2019	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
RAD SAFETY REMP						1
1	09/09/2019	09/13/2019	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1	09/09/2019	09/13/2019	IP 71151	000746	Performance Indicator Verification	
ACCESS CONTROL, EQUIP PERF, TRAINING						2
1	09/23/2019	09/27/2019	IP 71130.02	000734	Access Control	
1	09/23/2019	09/27/2019	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1	09/23/2019	09/27/2019	IP 71130.07	000739	Security Training	
1	09/23/2019	09/27/2019	IP 71151	001338	Performance Indicator Verification	

IP 22 Inspection Activity Plan Report

FitzPatrick

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
Rad Safety Inspection 01, 02, 03, 04						1
1	10/21/2019	10/25/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	10/21/2019	10/25/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1	10/21/2019	10/25/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1	10/21/2019	10/25/2019	IP 71124.04	000729	Occupational Dose Assessment	
1	10/21/2019	10/25/2019	IP 71151	000746	Performance Indicator Verification	
CYBER MS8						2
1	10/21/2019	10/25/2019	IP 71130.10P	000741	Cyber Security	
1	11/04/2019	11/08/2019	IP 71130.10P	000741	Cyber Security	