



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

March 4, 2019

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 (REPORT 05000333/2018006)**

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, 2018, through December 31, 2018. 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, 2020. This updated inspection plan now includes planned security inspections which were formerly transmitted under separate correspondence. 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. 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. You should be aware that the agency is pursuing potential changes to the ROP, including changes to engineering inspections (SECY-18-0113, "Recommendations for Modifying the Reactor Oversight Process Engineering Inspections"). Should these changes to the ROP be implemented, the engineering and other region-based inspections are subject to change in scope, as well as schedule, beginning in January 2020. 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 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 Plan

cc w/encl: Distribution via ListServ

SUBJECT: ANNUAL ASSESSMENT LETTER FOR JAMES A. FITZPATRICK NUCLEAR POWER PLANT (REPORT 05000333/2018006) DATED MARCH 4, 2019

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ADAMS ACCESSION NUMBER: **ML19060A215**

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OFFICE	RI/DRP	RI/DRP			
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OFFICIAL RECORD COPY

IP 22 Inspection Activity Plan Report

FitzPatrick

01/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
FITZPATRICK INITIAL OL EXAM						4
1	01/13/2019	01/26/2019	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	000728	Occupational Dose Assessment	
PI&R BIENNIAL						4
1	04/22/2019	04/26/2019	IP 71152B	000747	Problem Identification and Resolution	
1	05/06/2019	05/10/2019	IP 71152B	000747	Problem Identification and Resolution	
PROTECTIVE STRATEGY , TS REVIEW, SEC PI&R Sample						3
1	05/20/2019	05/24/2019	IP 71130.14	000743	Review of Power Reactor Target Sets	
1	06/03/2019	06/07/2019	IP 71130.05	000737	Protective Strategy Evaluation	
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	000728	Occupational Dose Assessment	
EP EXERCISE INSPECTION						5
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	
Design Basis Assurance Inspection						6
1	07/14/2019	07/20/2019	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
1	07/28/2019	08/03/2019	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	
ISFSI OPERATIONAL INSPECTION						2
1	09/23/2019	09/27/2019	IP 60855.1	000590	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	

This report does not include INPO and OUTAGE activities.
 This report shows only on-site and announced inspection procedures.

IP 22 Inspection Activity Plan Report

FitzPatrick

01/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
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	
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	000728	Occupational Dose Assessment	
CYBER FULL IMP						4
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	
FITZPATRICK INITIAL OL EXAM						4
1	01/26/2020	01/30/2020	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1	02/23/2020	03/06/2020	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
Rad Safety Insp						1
1	02/10/2020	02/14/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	02/10/2020	02/14/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1	02/10/2020	02/14/2020	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1	02/10/2020	02/14/2020	IP 71124.04	000728	Occupational Dose Assessment	
TRIENNIAL FIRE PROTECTION						4
1	03/16/2020	03/20/2020	IP 71111.05T	000696	Fire Protection (Triennial)	
1	03/30/2020	04/03/2020	IP 71111.05T	000696	Fire Protection (Triennial)	
FORCE-ON-FORCE PLANNING AND EXERCISE WEEK						6
1	04/20/2020	04/24/2020	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1	05/11/2020	05/15/2020	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	

IP 22 Inspection Activity Plan Report

FitzPatrick

01/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
Fitz Requal Inspection with P/F Results						2
1	05/04/2020	05/08/2020	IP 71111.11A	000703	Licensed Operator Requalification Program and Licensed Operator Performance (Annual)	
1	05/04/2020	05/08/2020	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance (Biennial)	
Rad Safety RETS						1
1	05/04/2020	05/08/2020	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
FITZPATRICK EP PROGRAM INSPECTION						1
1	07/13/2020	07/17/2020	IP 71114.02	000717	Alert and Notification System Testing	
1	07/13/2020	07/17/2020	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1	07/13/2020	07/17/2020	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1	07/13/2020	07/17/2020	IP 71151	001397	Performance Indicator Verification	
Rad Safety Instruments						1
1	07/20/2020	07/24/2020	IP 71124.05	000729	Radiation Monitoring Instrumentation	
Access Control, Equip perf, Training						3
1	08/17/2020	08/21/2020	IP 71130.02	000734	Access Control	
1	08/17/2020	08/21/2020	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1	08/17/2020	08/21/2020	IP 71130.07	000739	Security Training	
1	08/17/2020	08/21/2020	IP 71151	001338	Performance Indicator Verification	
Radwaste						1
1	09/07/2020	09/11/2020	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
Rad Safety Inspection						1
1	09/14/2020	09/18/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	09/14/2020	09/18/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1	09/14/2020	09/18/2020	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1	09/14/2020	09/18/2020	IP 71124.04	000728	Occupational Dose Assessment	
ISI - UNIT 1						1
1	09/20/2020	09/26/2020	IP 71111.08G	000701	Inservice Inspection Activities (BWR)	

This report does not include INPO and OUTAGE activities.
 This report shows only on-site and announced inspection procedures.

IP 22 Inspection Activity Plan Report

FitzPatrick

01/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
Rad Safety Inspection						1
1	11/02/2020	11/06/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	11/02/2020	11/06/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1	11/02/2020	11/06/2020	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1	11/02/2020	11/06/2020	IP 71124.04	000728	Occupational Dose Assessment	
FY21 Fitzpatrick Examination						4
1	12/14/2020	12/18/2020	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	