



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION III
2443 WARRENVILLE RD. SUITE 210
LISLE, ILLINOIS 60532-4352

March 2, 2018

Mr. David B. Hamilton
Site Vice President
FirstEnergy Nuclear Operating Company
Perry Nuclear Power Plant
Reg Affairs–A210
10 Center Road, P.O. Box 97
Perry, OH 44081–0097

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR PERRY NUCLEAR POWER PLANT;
REPORT 05000440/2017006**

Dear Mr. Hamilton:

The NRC has completed its end-of-cycle performance assessment of your Perry Nuclear Power Plant, 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 its plans for future inspections at your facility. The NRC concluded that overall performance at your facility preserved public health and safety.

The NRC determined the performance at your Perry Nuclear Power Plant during the most recent quarter was within the Regulatory Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix. This conclusion was based on a single inspection finding having low-to-moderate safety significance (i.e., White) in the Mitigating Systems Cornerstone originating in the second quarter of 2017 that involved the failure to evaluate the effects of voltage suppression diode failure on the Standby Diesel Generator (SDG) control circuit (Inspection Report 05000440/2017010), and all PIs within the expected range (i.e., Green).

Therefore, in addition to ROP baseline inspections, the NRC commenced a supplemental inspection in accordance with Inspection Procedure 95001, "Supplemental Inspection Response To Action Matrix Column 2 Inputs." This procedure was conducted to provide assurance that: (1) the root and contributing causes of the White performance issue were understood; (2) the extent of condition and extent of cause were identified; and (3) your corrective actions were sufficient to address the root causes and contributing causes and to prevent recurrence. The NRC completed the on-site portion of the supplemental inspection the week of February 12, 2018. The results of this inspection will be communicated in Inspection Report 05000440/2018040.

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 12 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.

The enclosed inspection plan includes, among other inspections, a Cyber Security Inspection in April 2018 conducted in accordance with Inspection Procedure (IP) 71130.10P, "Cyber Security", a Design Basis Assurance inspection in June 2018 conducted in accordance with IP 71111.21N, "Design Bases Assurance Inspection (Programs)", and a Fire Protection inspection in September 2018 conducted in accordance with inspection procedure IP 71111.05T, "Fire Protection (Triennial)."

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

Please contact Billy Dickson at 630-829-9827 with any questions you have regarding this letter.

Sincerely,

/RA Julio Lara Acting for/

Patrick Loudon, Director
Division of Reactor Projects

Docket No. 50-440
License No. NPF-58

Enclosure:
Inspection Plan

cc: Distribution via LISTSERV®

Letter to David B. Hamilton from Patrick L. Louden dated March 2, 2018

SUBJECT: ANNUAL ASSESSMENT LETTER FOR PERRY NUCLEAR POWER PLANT
REPORT 05000440/2017006

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DATE	2/23/2018	2/27/2018	2/27/2018	

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IP 22 Inspection Activity Plan Report

Perry

03/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
RADIATION PROTECTION BASELINE INSPECTION						1
1	03/26/2018	03/30/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
SECURITY BASELINE INSPECTION						1
1	03/26/2018	03/30/2018	IP 71130.01	000733	Access Authorization	
CYBER SECURITY INSPECTION						5
1	04/02/2018	04/20/2018	IP 71130.10P	000741	Cyber Security	
RADIATION PROTECTION BASELINE INSPECTION						1
1	04/23/2018	04/27/2018	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1	04/23/2018	04/27/2018	IP 71124.04	000728	Occupational Dose Assessment	
DBA PROGRAMS INSPECTION						3
1	06/25/2018	07/13/2018	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
SECURITY BASELINE INSPECTION						1
1	06/25/2018	06/29/2018	IP 71130.02	000734	Access Control	
1	06/25/2018	06/29/2018	IP 71151	001338	Performance Indicator Verification	
EP EXERCISE/PI VERIFICATION						4
1	07/23/2018	09/21/2018	IP 71114.08	000723	Exercise Evaluation □ Scenario Review	
1	09/17/2018	09/21/2018	IP 71114.01	000716	Exercise Evaluation	
1	09/17/2018	09/21/2018	IP 71151	001397	Performance Indicator Verification	
FIRE PROTECTION INSPECTION & BAG TRIP						3
1	09/17/2018	10/19/2018	IP 71111.05T	000696	Fire Protection (Triennial)	
RADIATION PROTECTION BASELINE INSPECTION						1
1	10/29/2018	11/02/2018	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1	10/29/2018	11/02/2018	IP 71151	000746	Performance Indicator Verification	
SECURITY BASELINE INSPECTION						2
1	11/05/2018	11/09/2018	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
ISFSI Program Review Inspection						1
1	11/12/2018	11/16/2018	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

Perry

03/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
BIENNIAL REQUAL PROGRAM INSPECTION						2
1	12/03/2018	12/07/2018	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance - Biennial	
2019 Perry Exam						3
1	01/06/2019	01/11/2019	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1	02/10/2019	02/22/2019	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
RADIATION PROTECTION BASELINE INSPECTION						1
1	03/04/2019	03/08/2019	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
SECURITY BASELINE INSPECTION						1
1	03/11/2019	03/15/2019	IP 71130.02	000734	Access Control	
1	03/11/2019	03/15/2019	IP 71130.14	000743	Review of Power Reactor Target Sets	
INSERVICE INSPECTION						1
1	03/19/2019	04/08/2019	IP 71111.08G	000701	Inservice Inspection Activities - BWR	
RADIATION PROTECTION BASELINE INSPECTION						2
1	03/25/2019	03/29/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	03/25/2019	03/29/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
EP BASELINE INSPECTION / PI VERIFICATION						1
1	06/17/2019	06/21/2019	IP 71114.02	000717	Alert and Notification System Testing	
1	06/17/2019	06/21/2019	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1	06/17/2019	06/21/2019	IP 71114.05	000720	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	06/17/2019	06/21/2019	IP 71151	001397	Performance Indicator Verification	
RADIATION PROTECTION BASELINE INSPECTION						2
1	07/22/2019	07/26/2019	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1	07/22/2019	07/26/2019	IP 71124.07	000731	Radiological Environmental Monitoring Program	
Triennial 50.59 Inspection						3
1	08/12/2019	08/16/2019	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	

IP 22 Inspection Activity Plan Report

Perry

03/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
FORCE-ON-FORCE PLANNING AND EXERCISES						8
1	08/26/2019	08/30/2019	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1	09/16/2019	09/20/2019	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
SECURITY BASELINE INSPECTION						1
1	10/21/2019	10/25/2019	IP 71130.06	000738	Protection of Safeguards Information	
1	10/21/2019	10/25/2019	IP 71130.07	000739	Security Training	
1	10/21/2019	10/25/2019	IP 71151	001338	Performance Indicator Verification	
BIENNIAL PI&R TEAM INSPECTION						4
1	10/21/2019	11/08/2019	IP 71152B	000747	Problem Identification and Resolution	
RADIATION PROTECTION BASELINE INSPECTION						1
1	10/28/2019	11/01/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1	10/28/2019	11/01/2019	IP 71151	000746	Performance Indicator Verification	