



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION III  
2443 WARRENVILLE RD. SUITE 210  
LISLE, IL 60532-4352

March 1, 2017

Mr. David B. Hamilton  
Site Vice President  
FirstEnergy Nuclear Operating Company  
Perry Nuclear Power Plant  
Mail Stop A-PY-A290  
P.O. Box 97, 10 Center Road  
Perry, OH 44081-0097

SUBJECT: ANNUAL ASSESSMENT LETTER FOR PERRY NUCLEAR POWER PLANT,  
UNIT 1 (REPORT 05000440/2016006)

Dear Mr. Hamilton:

The NRC has completed its end-of-cycle performance assessment of Perry Nuclear Power Plant, Unit 1, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2016, through December 31, 2016. 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 Perry Nuclear Power Plant, Unit 1, 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, 2018. 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. This inspection plan does not include the plan for security-related inspections, which will be sent via separate, non-publicly available correspondence.

The enclosed inspection plan includes two team inspections. In August 2017 the NRC will conduct a team triennial inspection using inspection procedure (IP) 71111.21M, "Design Bases Assurance Inspection (Team)." In November 2017 the NRC will conduct a team biennial inspection using IP 71152, "Problem Identification and Resolution."

From January 1 to December 31, 2016, the NRC issued four Severity Level IV traditional enforcement violations associated with impeding the regulatory process. Therefore, the NRC plans to conduct Inspection Procedure 92723, "Follow Up Inspection for Three or More Severity IV Traditional Enforcement Violations in the Same Area in a 12-Month Period" to follow-up on these violations. The purpose of this inspection is to ensure that the causes of the group of violations are understood and that the extent of condition was adequately evaluated. We have not yet identified when we will start this inspection.

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 (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 630-829-9833 with any questions you have regarding this letter.

Sincerely,

/RA/

Jamnes Cameron, Chief,  
Branch 4  
Division of Reactor Project

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

Enclosure:  
Inspection Plan

cc: Distribution via LISTSERV®

D. Hamilton

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Letter to David B. Hamilton from Jamnes Cameron dated March 1, 2017

SUBJECT: ANNUAL ASSESSMENT LETTER FOR PERRY NUCLEAR POWER PLANT,  
UNIT 1 (REPORT 05000440/2016006)

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**Perry**  
**Inspection / Activity Plan**  
**03/01/2017 - 12/31/2018**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>ISI - INSERVICE INSPECTION</b>		<b>1</b>
1	03/06/2017	04/03/2017	IP 7111108G	Inservice Inspection Activities - BWR	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>2</b>
1	03/20/2017	03/24/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	03/20/2017	03/24/2017	IP 71124.02	Occupational ALARA Planning and Controls	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	04/24/2017	04/28/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	05/08/2017	05/12/2017	IP 71124.02	Occupational ALARA Planning and Controls	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	06/19/2017	06/23/2017	IP 71124.05	Radiation Monitoring Instrumentation	
			<b>BI EP - EP BASELINE INSPECTION / PI VERIFICATION</b>		<b>1</b>
1	06/19/2017	06/23/2017	IP 7111402	Alert and Notification System Testing	
1	06/19/2017	06/23/2017	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	06/19/2017	06/23/2017	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	06/19/2017	06/23/2017	IP 71151	Performance Indicator Verification	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	08/14/2017	08/18/2017	IP 71124.07	Radiological Environmental Monitoring Program	
1	08/14/2017	08/18/2017	IP 71151	Performance Indicator Verification	
			<b>BI ENG - DBA INSPECTION TEAM</b>		<b>6</b>
1	08/14/2017	09/01/2017	IP 7111121M	Component Design Bases Inspection (Teams)	
			<b>BI PI&amp;R - BIENNIAL PI&amp;R INSPECTION</b>		<b>4</b>
1	10/30/2017	11/17/2017	IP 71152B	Problem Identification and Resolution	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	03/26/2018	03/30/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
			<b>ISFSI - ISFSI CASK LOADING INSPECTION</b>		<b>1</b>
1	04/01/2018	05/30/2018	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>2</b>
1	05/21/2018	05/25/2018	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	05/21/2018	05/25/2018	IP 71124.07	Radiological Environmental Monitoring Program	
			<b>BI ENG - DBA PROGRAMS INSPECTION</b>		<b>4</b>
1	06/25/2018	07/13/2018	IP 7111121N	Component Design Bases Inspection (Programs)	

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

**Perry**  
**Inspection / Activity Plan**  
**03/01/2017 - 12/31/2018**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End				
<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>					
1	07/09/2018	07/13/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	1
1	07/09/2018	07/13/2018	IP 71124.04	Occupational Dose Assessment	
<b>BI FIRE - FIRE PROTECTION INSPECTION &amp; BAG TRIP</b>					
1	09/17/2018	10/19/2018	IP 7111105T	Fire Protection [Triennial]	3
<b>EP - EP EXERCISE/PI VERIFICATION</b>					
1	09/17/2018	09/21/2018	IP 7111401	Exercise Evaluation	2
1	09/17/2018	09/21/2018	IP 7111406	Drill Evaluation	
1	09/17/2018	09/21/2018	IP 7111408	Exercise Evaluation – Scenario Review	
1	09/17/2018	09/21/2018	IP 71151	Performance Indicator Verification	
<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>					
1	10/29/2018	11/02/2018	IP 71124.05	Radiation Monitoring Instrumentation	1
1	10/29/2018	11/02/2018	IP 71151	Performance Indicator Verification	
<b>BI OLRQ - BIENNIAL REQUAL PROGRAM INSPECTION</b>					
1	12/03/2018	12/07/2018	IP 7111111B	Licensed Operator Requalification Program	2