



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

March 4, 2014

Mr. Ernest Harkness  
Site Vice-President  
FirstEnergy Nuclear Operating Company  
Perry Nuclear Power Plant  
P. O. Box 97, 10 Center Road, A-PY-A290  
Perry, OH 44081-0097

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR PERRY NUCLEAR POWER PLANT  
(REPORT 05000440/2013001)**

Dear Mr. Harkness:

On February 12, 2014, the U.S. Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance review of Perry Nuclear Power Plant (Perry). The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2013, through December 31, 2013. 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 determined that overall, Perry operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Perry during the most recent quarter was within the Licensee Response Column (Column 1) of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green).

As discussed in our mid-cycle assessment letter dated September 3, 2013, performance at Perry during the first and second quarters of 2013 was within the Degraded Cornerstone Column (Column 3) of the ROP Action Matrix because of greater than green issues in the Occupational Radiation Safety Cornerstone. In the third quarter of 2013, with the change of the Occupational Exposure Control Effectiveness PI from yellow to green and the successful completion of an Inspection Procedure 95002 team inspection in the Occupational Radiation Safety area, we assessed the performance at Perry to be in the Licensee Response Column (Column 1) of the ROP Action Matrix. Therefore, with Perry performance in Column 1 for the fourth quarter of 2013, the NRC plans to conduct ROP baseline inspections at your facility.

As a result of the Safety Culture Common Language Initiative, the terminology and coding of cross-cutting aspects were revised. All cross-cutting aspects identified during inspections conducted in calendar year (CY) 2014 will reflect this revision to Inspection Manual Chapter (IMC) 0310. The CY 2013 end-of-cycle assessments were conducted using the IMC 0310 guidance in effect in CY 2013 (dated October 28, 2011). Cross-cutting aspects identified in 2013 using the 2013 terminology will be converted to the latest revision in accordance with the cross-reference in IMC 0310 during the mid-cycle assessment review and evaluated for cross-cutting themes and potential substantive cross-cutting issues in accordance with IMC 0305.

The enclosed inspection plan lists the inspections scheduled through June 30, 2015. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the mid-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. 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 security-related inspections, which will be sent via separate, non-publicly available correspondence.

Additionally, an NRC audit of licensee efforts towards compliance with Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events," is ongoing. This audit includes an onsite component in order for the NRC to evaluate mitigating strategies as described in licensee submittals, and to receive and review information relative to associated open items. This onsite activity will occur in the months prior to a declaration of compliance for the first unit at each site, and will aid staff in development of a Safety Evaluation for the site. The date for the onsite component at your site is being coordinated with your staff. A site-specific audit plan for the visit will be provided in advance to allow sufficient time for preparations.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure 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 Agencywide Documents Access and Management 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 Mr. Michael Kunowski at 630-829-9618 with any questions you may have regarding this letter or its attachments.

Sincerely,

*/RA/*

Cynthia D. Pederson  
Regional Administrator

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

Enclosure:  
Perry Nuclear Power Plant  
Inspection/Activity Plan

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Letter to Ernest Harkness from Cynthia Pederson dated March 4, 2014

SUBJECT: ANNUAL ASSESSMENT LETTER FOR PERRY NUCLEAR POWER PLANT  
(REPORT 05000440/2013001)

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**Perry**  
**Inspection / Activity Plan**  
**03/01/2014 - 06/30/2015**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>BI ENG - COMPONENT DESIGN BASIS INSPECTION</b>		<b>9</b>
1	03/03/2014	04/04/2014	IP 7111121	Component Design Bases Inspection	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	03/31/2014	04/04/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	04/21/2014	04/25/2014	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	05/05/2014	05/09/2014	IP 71124.05	Radiation Monitoring Instrumentation	
			<b>ISFSI - ISFSI OPERATION AT REACTOR SITE</b>		<b>2</b>
1	06/01/2014	06/30/2014	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	06/16/2014	06/20/2014	IP 71124.02	Occupational ALARA Planning and Controls	
1	06/16/2014	06/20/2014	IP 71151-BI01	Reactor Coolant System Activity	
1	06/16/2014	06/20/2014	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	06/16/2014	06/20/2014	IP 71151-PR01	RETS/ODCM Radiological Effluent	
			<b>BI EPX - EP EXERCISE INSPECTION / PI VERIFICATION</b>		<b>2</b>
1	09/22/2014	09/26/2014	IP 71151	Performance Indicator Verification	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	10/20/2014	10/24/2014	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	10/20/2014	10/24/2014	IP 71124.04	Occupational Dose Assessment	
			<b>BI OLRQ - BIENNIAL REQUAL PROGRAM INSPECTION</b>		<b>2</b>
1	12/01/2014	12/05/2014	IP 7111111B	Licensed Operator Requalification Program	
			<b>OL PREP - INIT EXAM/FEB 2015</b>		<b>3</b>
1	01/12/2015	01/16/2015	W90333	OL - INITIAL EXAM - 2015 FEB - PERRY	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	01/26/2015	01/30/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
			<b>OL EXAM - INIT EXAM/FEB. 2015</b>		<b>3</b>
1	02/02/2015	02/13/2015	W90333	OL - INITIAL EXAM - 2015 FEB - PERRY	
			<b>BI ISI - ISI INSPECTION</b>		<b>1</b>
1	02/16/2015	03/29/2015	IP 7111108G	Inservice Inspection Activities - BWR	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	04/20/2015	04/24/2015	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	

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

**Perry**  
**Inspection / Activity Plan**  
**03/01/2014 - 06/30/2015**

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	Start	End			
<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>					
					<b>1</b>
1	06/08/2015	06/12/2015	IP 71124.07	Radiological Environmental Monitoring Program	
1	06/08/2015	06/12/2015	IP 71151-BI01	Reactor Coolant System Activity	
1	06/08/2015	06/12/2015	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	06/08/2015	06/12/2015	IP 71151-PR01	RETS/ODCM Radiological Effluent	
<b>BI HS - TRIENNIAL HEAT SINK INSPECTION</b>					
					<b>1</b>
1	06/08/2015	06/12/2015	IP 7111107T	Heat Sink Performance	

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