

March 3, 2008

Mr. Barry S. Allen  
Site Vice President  
FirstEnergy Nuclear Operating Company  
Perry Nuclear Power Plant  
P. O. Box 97, 10 Center Road, A-PY-290  
Perry, OH 44081-0097

SUBJECT: ANNUAL ASSESSMENT LETTER - PERRY NUCLEAR PLANT  
(05000440/2008001)

Dear Mr. Allen:

On February 12, 2008, the NRC staff completed its performance review of the Perry Nuclear Plant. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2007. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

This performance review and enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only – Security Related Information" will include the security cornerstone review and resultant inspection plan.

Overall, Perry Nuclear Plant operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter was within the Regulatory Response column of the NRC's Action Matrix, based on the Mitigating Systems Performance Index (MSPI) results for the Emergency AC Power being White since the first quarter of 2007.

On May 1, 2007, the NRC staff completed an update of our assessment of the Perry Nuclear Power Plant. Our May 2, 2007, letter informed FirstEnergy Nuclear Operating Company that all actions had been completed for Perry to exit the Multiple/Repetitive Degraded Cornerstone column of the NRC's Action Matrix. Therefore, effective the second quarter 2007, the Perry plant exited the Multiple/Repetitive Degraded Cornerstone column and was placed in the Regulatory Response column, based on the White Emergency AC Power System MSPI. Regarding the White Performance Index, Region III conducted Supplemental Inspection 95001, "Inspection for One or Two White Inputs in a Strategic Performance Area," during the week of August 20 to assess the root cause analysis and implementation of corrective actions for the performance index. Based on the results of this inspection, no findings of significance were identified.

The staff has identified that the improvements in human performance first noted in our 2006 End-of-Cycle assessment have not been sustained. The performance decline has resulted in the identification of a substantive cross-cutting issue in the area of human performance with a cross-cutting theme in the aspect of work control and planning. There were 12 Green findings with a documented cross-cutting aspect in human performance. Four of the findings shared a common cross-cutting aspect of work control and planning (H.3(a)). In addition, these findings were from more than one cornerstone. This cross-cutting issue will remain open until the number of findings with the same cross-cutting aspect is reduced or when the NRC gains confidence in your actions to address this adverse trend in human performance.

The enclosed inspection plan details the inspections, including baseline and other infrequently conducted inspections, less those related to security, scheduled through June 30, 2009. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the mid-cycle review.

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 (PARS) component of NRC's document system (ADAMS), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact James Cameron at 630-829-9833 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA/**

James L. Caldwell,  
Regional Administrator

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

Enclosure: Perry Inspection/Activity Plan

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See next page

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Sincerely,

James L. Caldwell,  
Regional Administrator

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License No. DPR-58

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See next page

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OFFICE	RIII		RIII		RIII				
NAME	JCameron:ntp		CPederson		JCaldwell				
DATE	2/28/2008		2/28/2008		2/28/2008				

**OFFICIAL RECORD COPY**

Letter to B. Allen from J. Caldwell dated March 3, 2008

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(05000440/2008001)

cc w/encl: J. Hagan, President and Chief Nuclear Officer - FENOC  
J. Lash, Senior Vice President of Operations and  
Chief Operating Officer - FENOC  
D. Pace, Senior Vice President, Fleet Engineering - FENOC  
J. Rinckel, Vice President, Fleet Oversight - FENOC  
Director, Fleet Regulatory Affairs - FENOC  
Manager, Fleet Licensing - FENOC  
Manager, Site Regulatory Compliance - FENOC  
D. Jenkins, Attorney, FirstEnergy Corp.  
Public Utilities Commission of Ohio  
C. O'Claire, Chief, Ohio Emergency Management Agency  
R. Owen, Ohio Department of Health  
President, Geauga County Board  
Director, Department of Emergency Services  
Gauga County Sheriff  
President, Ashtabula County Board of Commissioners  
Ashtabula County Sheriff  
Director, Ashtabula County Emergency  
Management Agency  
Mayor, Village of Genoa  
Genoa Village Administrator  
President, Lake County Board of Commissioners  
Lake County Sheriff  
Painesville City Manager  
Lake County Administrator  
Director, Lake County Emergency Management Agency  
President, Village of Fairport Harbor  
Mayor, City of Eastlake  
Mayor, City of Wickliffe  
President, Geneva City Council  
City Manager, Geneva  
Mayor, City of Kirtland  
Mayor, City of Mentor  
City Manager, Mentor  
Mayor, City of Mentor on the Lake  
Administrative Director  
Mayor, City of Willoughby Hills  
Mayor, City of Willoughby  
Mayor, City of Willowick  
Mayor, Village of Madison  
Village Administrator, Village of Madison  
Chairman, Board of Madison Township Trustees  
Mayor, Village of Kirtland Hills  
Mayor, Village of Geneva-on-the-Lake  
Mayor, Lakeline Village  
Mayor, Village of Timberlake  
Mayor, Village of Grand River  
INPO

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TJW2

TEB

RidsNrrDirslpab

JLC1

MAS

JKH3

KGO

RML2

SRI Perry

DRPIII

DRSIII

PLB1

TXN

[ROPreports@nrc.gov](mailto:ROPreports@nrc.gov) (inspection reports, final SDP letters, any letter with an IR number)

**Perry**  
**Inspection / Activity Plan**  
**03/01/2008 - 06/30/2009**

Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
			Start	End	
<b>2515/171 - TI 2515/171 B5B PHASE 2 AND 3</b>		<b>2</b>			
IP 2515/171	VERIFICATION OF SITE SPECIFIC IMPLEMENTATION OF B.5.B PHASE 2 & 3 MITIGATING STRATEGIES		04/14/2008	04/18/2008	Generic Safety Inspectio
<b>BI ENG - COMPONENT DESIGN BASES INSPECTION</b>		<b>5</b>			
IP 7111121	Component Design Bases Inspection		05/05/2008	06/06/2008	Baseline Inspections
<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>			
IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program		05/19/2008	05/23/2008	Baseline Inspections
IP 71151-PR01	RETS/ODCM Radiological Effluent		05/19/2008	05/23/2008	Baseline Inspections
<b>RPV HEAD - RPV HEAD DROP ANALYSIS INSPECTION</b>		<b>1</b>			
IP 7111120	Refueling and Other Outage Activities		07/21/2008	08/08/2008	Baseline Inspections
<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>			
IP 7112101	Access Control to Radiologically Significant Areas		09/08/2008	09/12/2008	Baseline Inspections
IP 71151-OR01	Occupational Exposure Control Effectiveness		09/08/2008	09/12/2008	Baseline Inspections
<b>ISFSI - PAD CONSTRUCTION</b>		<b>1</b>			
IP 60856.1	Review of 10 CFR 72.212(b) Evaluations at Operating Plants		09/01/2008	12/31/2008	Other Routine
<b>BI EP - EP EXERCISE INSPECTION / PI VERIFICATION</b>		<b>3</b>			
IP 7111401	Exercise Evaluation		10/06/2008	10/10/2008	EP Baseline Inspection
IP 71151-EP01	Drill/Exercise Performance		10/06/2008	10/10/2008	Baseline Inspections
IP 71151-EP02	ERO Drill Participation		10/06/2008	10/10/2008	Baseline Inspections
IP 71151-EP03	Alert & Notification System		10/06/2008	10/10/2008	Baseline Inspections
<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>			
IP 7112102	ALARA Planning and Controls		10/20/2008	10/24/2008	Baseline Inspections
IP 71151-BI01	Reactor Coolant System Activity		10/20/2008	10/24/2008	Baseline Inspections
<b>2515/174 - HYDROGEN IGNITOR TI</b>		<b>2</b>			
IP 2515/174	(Hydrogen Igniter Backup Power Verification		10/01/2008	10/31/2008	Generic Safety Inspectio
<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>			
IP 7112202	Radioactive Material Processing and Transportation		11/17/2008	11/21/2008	Baseline Inspections
<b>BI OL - BIENNIAL REQUAL. PROGRAM INSPECTION</b>		<b>2</b>			
IP 7111111B	Licensed Operator Requalification Program		12/01/2008	12/05/2008	Baseline Inspections
<b>OL EXAM - OPERATOR LICENSING EXAM</b>		<b>3</b>			
W90199	OL - INITIAL EXAM - JAN 2009 - PERR		12/15/2008	12/19/2008	Not Applicable
W90199	OL - INITIAL EXAM - JAN 2009 - PERR		01/12/2009	01/23/2009	Not Applicable
<b>BI PI&amp;R - BIENNIAL PI&amp;R INSPECTION</b>		<b>4</b>			
IP 71152B	Identification and Resolution of Problems		01/12/2009	01/30/2009	Baseline Inspections
<b>BI ENG - ENGINEERING INSERVICE INSPECTION</b>		<b>1</b>			
IP 7111108G	Inservice Inspection Activities - BWR		02/23/2009	03/27/2009	Baseline Inspections

**Perry**  
**Inspection / Activity Plan**  
**03/01/2008 - 06/30/2009**

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			Start	End	
<b>BI RP</b>	<b>- RADIATION PROTECTION BASELINE INSPECTION</b>	<b>1</b>			
IP 7112101	Access Control to Radiologically Significant Areas		03/02/2009	03/06/2009	Baseline Inspections
IP 7112102	ALARA Planning and Controls		03/02/2009	03/06/2009	Baseline Inspections
<b>BI RP</b>	<b>- RADIATION PROTECTION BASELINE INSPECTION</b>	<b>1</b>			
IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program		04/20/2009	04/24/2009	Baseline Inspections
IP 71151-BI01	Reactor Coolant System Activity		04/20/2009	04/24/2009	Baseline Inspections
<b>BI ENG</b>	<b>- FIRE PROTECTION INFO GATHERING TRIP</b>	<b>3</b>			
IP 7111105T	Fire Protection [Triennial]		05/18/2009	05/22/2009	Baseline Inspections
<b>BI ENG</b>	<b>- TRIENNIAL FIRE PROTECTION INSPECTION</b>	<b>3</b>			
IP 7111105T	Fire Protection [Triennial]		06/01/2009	06/19/2009	Baseline Inspections