April 24, 2008

LICENSEE: FirstEnergy Nuclear Operating Company

FACILITY: Perry Nuclear Power Station

SUBJECT: SUMMARY OF THE APRIL 15, 2008, PUBLIC MEETING TO DISCUSS THE 2007 PERRY END-OF-CYCLE PERFORMANCE ASSESSMENT

On April 15, 2008, the Nuclear Regulatory Commission (NRC) held a public meeting at the Quail Hollow Resort in Painesville, Ohio. The meeting was between NRC management and FirstEnergy Nuclear Operating Company representatives to discuss the NRC's 2007 End-of Cycle Assessment of the Perry Nuclear Power Station's safety performance. The results of that assessment were discussed in a letter to the licensee dated March 3, 2008 (ADAMS ML080600303.

The NRC opened the meeting with an overview of the NRC mission, the NRC's Reactor Oversight Process (ROP), the national ROP results, and the Action Matrix. This was followed by a summary of the NRC's assessment of Perry performance in 2007. The slides used during the meeting and a list of principal meeting attendees can be found in the attached enclosures.

Following the NRC's presentation, the licensee presented its perspective on the assessment. The licensee acknowledged that the NRC's assessment was accurate and provided an overview of actions it is taking to address human performance, equipment issues, and the effectiveness of its corrective action program. The licensee's meeting presentation handout is attached as an enclosure to this letter.

At the end of the meeting, members of the public were given the opportunity to ask questions of NRC officials.

/RA/

Jamnes L. Cameron, Chief
Projects Branch 6
Division of Reactor Projects

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

Enclosures: As stated

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Memo to FirstEnergy Nuclear Operating Company from J. Cameron dated April 24, 2008

SUBJECT: SUMMARY OF THE APRIL 15, 2008, PUBLIC MEETING TO DISCUSS THE 2007 PERRY END-OF-CYCLE PERFORMANCE ASSESSMENT

cc w/encls: 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
Geauga 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

Memo to FirstEnergy Nuclear Operating Company from J. Cameron dated April 24, 2008

SUBJECT: SUMMARY OF THE APRIL 15, 2008, PUBLIC MEETING TO DISCUSS THE 2007 PERRY END-OF-CYCLE PERFORMANCE ASSESSMENT

(Distribution Continued)

cc w/encls: Mayor, Lakeline Village
Mayor, Village of Timberlake
Mayor, Village of Grand River
G. Mortensen, INPO

LICENSEE: FirstEnergy Nuclear Operating Company

FACILITY: Perry Nuclear Power Station

SUBJECT: SUMMARY OF THE APRIL 15, 2008, PUBLIC MEETING TO DISCUSS THE 2007 PERRY END-OF-CYCLE PERFORMANCE ASSESSMENT

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Projects Branch 6
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Docket No. 50-440
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Enclosures: As stated

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Memo to FirstEnergy Nuclear Operating Company from J. Cameron dated April 24, 2008

SUBJECT: SUMMARY OF THE APRIL 15, 2008, PUBLIC MEETING TO DISCUSS THE 2007 PERRY END-OF-CYCLE PERFORMANCE ASSESSMENT

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RML2
SRI Perry
DRPIII
DRSIII
PLB1
TXN

LIST OF ATTENDEES

Nuclear Regulatory Commission

B. Mallett, Deputy Executive Director Reactor and Preparedness Programs
J. Caldwell, Regional Administrator
J. Cameron, Branch Chief
M. Franke, Senior Resident Inspector
M. Wilk, Resident Inspector
G. Wright, Project Engineer
C. Goodwin, Project Manager
V. Mitlyng, Public Affairs Officer
P. Chandrithil, Public Affairs Officer

FENOC Attendees

M. Bezilla, Perry Site Vice President
F. Cayia, Director, Performance Improvement
K. Krueger, Director, Site Operations
J. Grabnar, Director, Engineering

Other Attendees

L. Green, Lake County Emergency Management
R. Leidy, Ohio Department of Health
J. Wills, Ohio Department of Public Safety

Enclosure

U.S.NRC

United States Nuclear Regulatory Commission

Protecting People and the Environment

Perry Plant Annual Assessment Meeting

Reactor Oversight Program - CY 2007

Quail Hollow Resort

Painesville, OH

April 15, 2008

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United States Nuclear Regulatory Commission
Protecting People and the Environment

Purpose of Today's Meeting

- A public forum for discussion of the licensee's performance
- NRC will address the licensee performance issues identified in the annual assessment letter
- Licensee will be given the opportunity to respond to the information in the letter and inform the NRC of new or existing programs to maintain or improve their performance

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Agenda

- Introduction
- Review of Reactor Oversight Process
- National Summary of Plant Performance
- Discussion of Plant Performance Results
- Licensee Response and Remarks
- NRC Closing Remarks
- Break
- NRC Available to Address Public Questions

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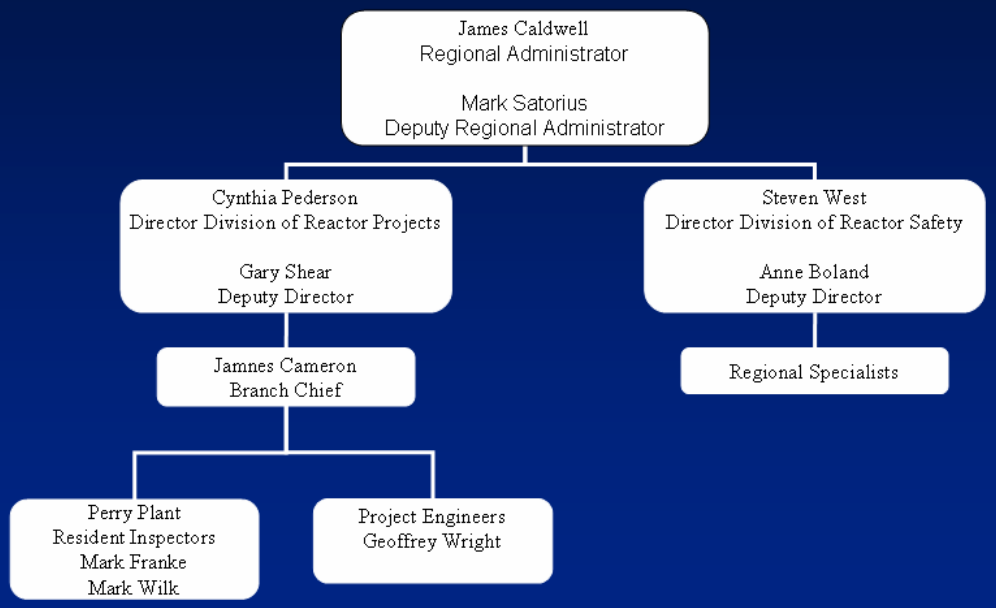
Region III Organization



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NRC Representatives

- Bruce Mallett, Deputy Executive Director for Reactor and Preparedness Programs
- Jim Caldwell, Regional Administrator, Region III
- Jamnes Cameron, Branch Chief
- Geoffrey Wright, Senior Project Engineer
- Mark Franke, Senior Resident Inspector
- Mark Wilk, Resident Inspector
- Cameron Goodwin, Project Manager, NRR

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U.S.NRC
United States Nuclear Regulatory Commission
Protecting People and the Environment

Our Mission

To license and regulate the nation's civilian use of byproduct, source, and special nuclear materials to ensure adequate protection of public health and safety, promote the common defense and security, and protect the environment.

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Some Nuclear Facts

- More than 100 nuclear power plants supply about 20 percent of the electricity in the U.S.
- Nuclear materials are used in medicine for cancer treatment and diagnosis.
- Nuclear materials are widely used in industry, such as in density gauges, flow measurement devices, radiography devices and irradiators.

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The NRC Regulates:

- Nuclear reactors - commercial power reactors, research and test reactors, new reactor designs;
- Nuclear materials - nuclear reactor fuel, radioactive materials for medical, industrial and academic use;
- Nuclear waste – transportation, storage and disposal of nuclear material and waste, decommissioning of nuclear facilities; and
- Nuclear security – physical security of nuclear facilities and materials from sabotage or attacks.

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What we don't do:

- Regulate nuclear weapons, military reactors, or space vehicle reactors.
- Own or operate nuclear power plants.
- Regulate some radioactive materials, such as naturally occurring radon and X-rays.

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How We Regulate

- Establish rules and regulations
- Issue licenses
- Provide oversight through inspection, enforcement, and evaluation of operational experience
- Conduct research to support regulatory decisions
- Respond to events and emergencies

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Assurance of Plant Safety

- Require "defense-in-depth"
- Require long-term maintenance of equipment
- Require continual training of operators
- Verify compliance with regulations

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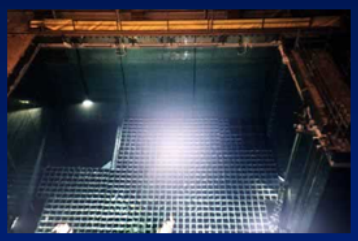
What We Do – Nuclear Waste



The NRC regulates:

- Storage of spent reactor fuel in fuel pools or dry storage casks, and
- A national spent fuel storage site—Yucca Mountain

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What We Do – Nuclear Security

NRC requires:

- Well-armed and well-trained security forces;
- Surveillance and perimeter patrols;
- State-of-the-art site access equipment and controls;
- Physical barriers and detection zones; and
- Intrusion detection systems and alarm stations

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NRC Performance Goals

- Safety: Ensure adequate protection of public health and safety and the environment.
- Security: Ensure adequate protection in the secure use and management of radioactive materials.

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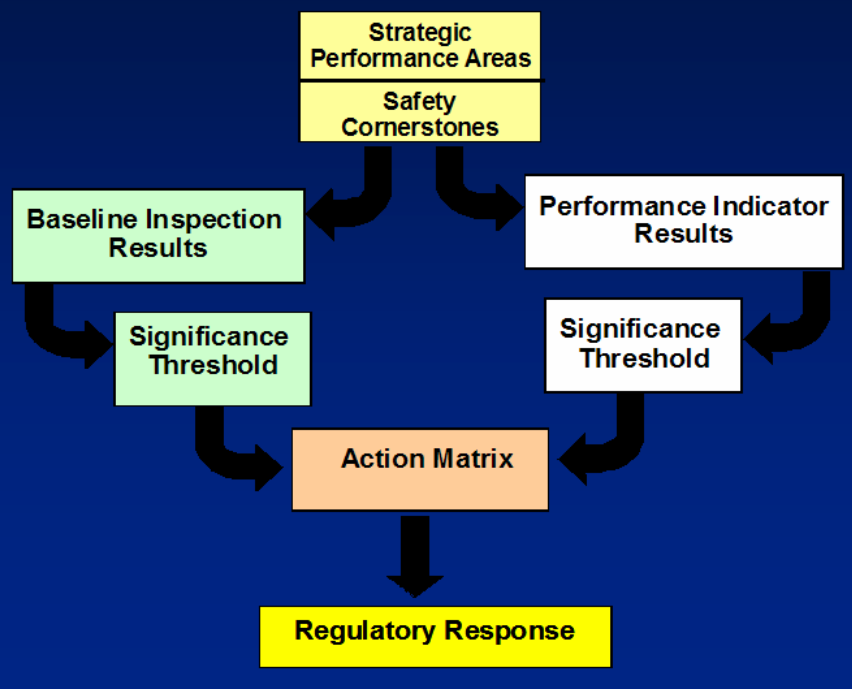
Reactor Oversight Process



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Examples of Baseline Inspections

• Equipment Alignment	~80 hrs/yr
• Triennial Fire Protection every 3 yrs	~250 hrs
• Operator Response	~125 hrs/yr
• Emergency Preparedness	~80 hrs/yr
• Average total hours for a single BWR plant	2454 hrs/yr

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Significance Threshold

Performance Indicators

Green: Only Baseline Inspection
White: May increase NRC oversight
Yellow: Requires more NRC oversight
Red: Requires more NRC oversight

Inspection Findings

Green: Very Low safety issue
White: Low to moderate safety issue
Yellow: Substantial safety issue
Red: High safety issue

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Action Matrix Concept

Licensee Response	Regulatory Response	Degraded Cornerstone	Multiple/Rep. Degraded Cornerstone	Unacceptable Performance

→ → → →

Increasing Safety Significance

Increasing NRC Inspection Efforts

Increasing NRC/Licensee Management Involvement

Increasing Regulatory Actions

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National Summary of Plant Performance

Status at End of CY 2007

Licensee Response	87
Regulatory Response	8
Degraded Cornerstone	8
Multiple/Repetitive Degraded Cornerstone	1
Unacceptable	0
Total	104

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National Summary

- Performance Indicator Results (at end of CY 2007)
  - Green 1942
  - White 8
  - Yellow 1
  - Red 0
- Total Inspection Findings (CY 2007)
  - Green 759
  - White 9
  - Yellow 2
  - Red 0

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Perry Plant Operational Summary

(Jan 1 - Dec 31, 2007)

- 2nd Quarter
  - Extended refueling outage
  - Forced Outages
  - Forced Power Reductions
- 4th Quarter
  - Forced Outage

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Perry Plant Assessment Results

(Jan 1 - Dec 31, 2007)

- Regulatory Response Column of Action Matrix
  - White PI: MSPI results for Emergency AC Power
  - White PI: Unplanned SCRAMS
- Substantive Cross-Cutting Issue: Human Performance – Work control & planning

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Perry Plant Assessment Results

(Jan 1 - Dec 31, 2007)

- Special Inspection: Reactor scram, loss of feedwater, and RCIC failure
  - Green finding: Failure to properly install digital feedwater control power supplies
  - 3 Unresolved Items

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Safety Significant Findings or PIs

- White PI: Emergency AC Power
  - 4 Emergency Diesel Generator failures from Aug 2004 to Jan 2007
- White PI: Unplanned SCRAMS
  - 2 SCRAMS in Jun 2007 recently categorized as unplanned after the FAQ process completed

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Perry Plant Inspection Activities

(Jan 1 - Dec 31, 2007)

- 100% Baseline Inspection Completion
  - Resident Inspectors stationed on-site
  - Region-based Inspectors
    - Licensed operator qualifications
    - Emergency preparedness inspections
    - Security inspections
    - Radiation protection
    - Equipment: design basis, modifications, and in-service testing
  - 15 Green Findings (baseline inspections)

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Perry Plant Inspection Activities

(Jan 1 - Dec 31, 2007)

- Supplemental Inspections (95001)
- Special Inspection (SCRAM & Loss of Feed with RCIC failure)

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Perry Plant
Annual Assessment Summary

January 1 - December 31, 2007

- FENOC operated the Perry Plant in a manner that preserved public health and safety
- White performance indicators for Emergency AC Power and Unplanned Scrams
- Remaining cornerstone objectives were met
- Conduct supplemental inspection for White Unplanned Scrams PI's

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Licensee Response and Remarks

Mark Bezilla
Vice President,
Perry Nuclear Power Plant
FirstEnergy Nuclear Operating Company

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Closing Remarks - NRC

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Contacting the NRC

- Report an emergency
  - (301) 816-5100 (call collect)
- Report a safety concern:
  - (800) 695-7403
  - Allegation@nrc.gov
- General information or questions
  - www.nrc.gov
  - Select "What We Do" for Public Affairs

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Reference Sources

- Reactor Oversight Process
  - http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/index.html
- Public Electronic Reading Room
  - http://www.nrc.gov/reading-rm.html
- Public Document Room
  - 1-800-397-4209 (Toll Free)

FENOC

FirstEnergy Nuclear Operating Company

Perry Nuclear Power Plant

April 15, 2008

End of Cycle - Public Meeting

Enclosure

Participants

- Mark Bezilla, Site Vice President
- Kurt Krueger, Director, Site Operations
- John Grabnar, Director, Engineering
- Fred Cayia, Director, Performance Improvement

Perry Plant – 2007

- Operated safely, preserved the health and safety of the public, fully met all cornerstone objectives
- Refueling Outage completed
- Plant improvements in 2007
- Future plant and performance improvements

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Regulatory Status

- Regulatory Response Column
- Performance Indicators
- Cross-Cutting Areas
- Transition to Licensee Response Column by Third Quarter

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2008 Focus Areas

FENOC

- Operations Fundamentals
- Radiation Protection
- Equipment Reliability
- Outage Improvement

Perry

- Organizational Alignment and Engagement
- Maintenance Fundamentals
- Problem Identification and Resolution

Together, these focus areas comprise the "Plan to Win: Seven for Success" initiative.

Engineering

- Technical rigor and quality
- Critical thinking
- Equipment performance and reliability

Human Performance

- Use of human performance tools to prevent events
- Identification and/or minimization of error traps
- Response to emergent activities

Problem Identification & Resolution

- Identify problems
- Problem evaluation and correction
- Operating experience

Looking Forward

- Continue safe, secure, and reliable plant operations
- Performance improvement

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