

Perry Annual Assessment Meeting

Reactor Oversight Process - CY 2005



Nuclear Regulatory Commission - Region III

Lisle, Illinois

March 14, 2006

Meeting Agenda

- Welcome
- Meeting Purpose and Introductions
- Review of Reactor Oversight Process
- National Summary of Plant Performance
- Discussion of Perry Performance Results
- Licensee Response and Remarks
- NRC Closing Remarks
- <Break>
- Public Comments and Questions of NRC

Purpose of Today's Meeting

- A public forum for discussion of licensee performance
- NRC will discuss 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 performance

NRC Representatives

James Caldwell, Region III Administrator

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Eric Duncan, Perry Branch Chief, RIII

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Kahtan Jabbour, Project Manager, NRR

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Raymond Powell, Senior Resident Inspector - Perry

Phone: (440) 259-3610

Mark Franke, Resident Inspector - Perry

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Region III Organization

James Caldwell
Regional Administrator

Geoffrey Grant
Deputy Regional Administrator

Mark Satorius
Director, Division of Reactor Projects

Steven West
Deputy Director, Division of Reactor Projects

Cynthia Pederson
Director, Division of Reactor Safety

Anne Boland
Deputy Director, Division of Reactor Safety

Eric Duncan
Branch 6 Chief - Perry

Regional Specialists

Perry Resident Inspector Office
Raymond Powell, SRI
Mark Franke, RI
Diane Flowers, OA

Project Engineer and Reactor Engineer
Geoffrey Wright, PE
Robert Ruiz, RE

NRC Performance Goals

- Safety: Ensure protection of the public health and safety and the environment
- Security: Ensure the secure use and management of radioactive materials
- Openness: Ensure openness in our regulatory process
- Effectiveness: Ensure that NRC actions are effective, efficient, realistic, and timely
- Management: Ensure excellence in agency management to carry out the NRC's strategic objectives

Reactor Oversight Process



Examples of Baseline Inspections

- Equipment Alignment ~80 hrs/yr
- Triennial Fire Protection ~200 hrs every 3 yrs
- Operator Response ~125 hrs/yr
- Emergency Preparedness ~80 hrs/yr
- Rad Release Controls ~110 hrs every 2 yrs
- Worker Radiation Protection ~90 hrs/yr
- Corrective Action Program ~250 hrs every 2 yrs
- Corrective Action Case Reviews ~60 hrs/yr

Significance Threshold

Performance Indicators

Green:	Only baseline inspections
White:	May increase NRC oversight
Yellow:	Requires increased NRC oversight
Red:	Requires increased NRC oversight

Inspection Findings

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

Action Matrix Concept



Increasing Safety Significance

Increasing NRC Inspection Efforts

Increasing NRC/Licensee Management Involvement

Increasing Regulatory Actions

National Summary of Plant Performance

Status at End of CY 2005

Licensee Response	84
Regulatory Response	12
Degraded Cornerstone	4
Multiple/Repetitive Degraded Cornerstone	3
Unacceptable	0
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Total	103

National Summary

- Performance Indicator Results (at end of CY 2005)

▶ Green	1850
▶ White	4
▶ Yellow	0
▶ Red	0

- Total Inspection Findings (CY 2005)

▶ Green	849
▶ White	10
▶ Yellow	1
▶ Red	0

Perry Annual Assessment Results

January 1 - December 31, 2005

- Perry operated safely
- Perry remains within the Multiple/Repetitive Degraded Cornerstone column of Action Matrix
- Two White findings remain open
- Continuing substantive cross-cutting issues in Human Performance and Problem Identification and Resolution

Review of Perry Performance

January 1 - December 31, 2005

- August 2004 – Perry entered Multiple/Repetitive Degraded Cornerstone Column of Action Matrix
- January-May 2005 – IP 95003 Inspection Conducted
- February 22-May 6, 2005 – Refueling Outage 10
- January 2005 – Special Inspection – Reactor Recirculation Pump Downshift Events
- May 2005 – Public Exit Meeting for IP 95003
- July 2005 – IP 95003 Inspection Report Issued

Review of Perry Performance

January 1 - December 31, 2005

- August 2005 – FENOC Responded to IP 95003 Supplemental Inspection Report
- September 2005 – NRC Issued Perry CAL
- October 2005 – IP 95001 - RHR Unavailability
- November 2005 – NRC Reviewed Revised PII
- December 2005 – IP 95001 – White EP Finding

Open Safety Significant Findings or PIs

- Two White Findings Currently Open
 - Air-Bound LPCS Waterleg Pump
 - August 14, 2003 - Following LOOP, LPCS waterleg pump air bound; LPCS/RHR 'A' inoperable
 - Failed ESW 'A' Pump Coupling
 - September 1, 2003 - ESW 'A' pump coupling failed
 - May 21, 2004 - ESW 'A' pump coupling failed again. Corrective actions to address first failure inadequate

Perry Special Inspection Activities

January 1 - December 31, 2005

- Special Inspection reviewed two reactor recirculation pump downshift events on December 23, 2004, and January 6, 2005, that resulted in reactor scrams
- Six Green findings identified
- Areas of Concern – Problem Identification and Resolution; Human Performance; Quarantining of Equipment; Procedure Adequacy

Perry IP 95003 Inspection

- January - May 2005 – IP 95003 Inspection
- May 25, 2005 – Public Exit Meeting
- Inspection Concluded Perry Operating Safely
- Problems in Human Performance and Problem Identification and Resolution
- August 2005 – Licensee Response to Supplemental Inspection Report

Perry Confirmatory Action Letter

September 28, 2005 – Perry CAL Issued

- Acknowledged FENOC Commitment to Improve Performance at Perry
- Advised Perry of NRC's Plans to Conduct CAL Followup Inspections
- Advised Perry That CAL Would Remain Open Pending Sustained Improved Performance

Perry Supplemental Inspection Activities

January 1 - December 31, 2005

- IP 95003 Supplemental Inspection
- IP 95001 Supplemental Inspection – White RHR Unavailability Performance Indicator
- IP 95001 Supplemental Inspection – White Emergency Preparedness Finding

Problem Identification and Resolution

Cross-Cutting Issue

- August 30, 2004 - NRC identified Problem Identification and Resolution cross-cutting issue
- March 2, 2005 & August 30, 2005 – NRC continued to identify Problem Identification and Resolution cross-cutting issue
- Current Assessment: Problem Identification and Resolution problems persist. Area continues to be a cross-cutting issue
- Licensee corrective actions in progress and NRC CAL Followup inspections to review resolution

Human Performance Cross-Cutting Issue

- March 2, 2005 - NRC identified Human Performance cross-cutting issue. Numerous issues with common theme - failure to follow procedures and inattention to detail
- August 30, 2005 - NRC continued to identify Human Performance cross-cutting issue
- Current Assessment: Human Performance problems persist. Area continues to be considered a cross-cutting issue
- Licensee corrective actions in progress and NRC CAL Followup inspections to review resolution

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)

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

Licensee Response and Remarks

FENOC

Perry Annual Assessment Results

January 1 - December 31, 2005

- Perry operated safely
- Perry remains within the Multiple/Repetitive Degraded Cornerstone column of Action Matrix
- Two White findings remain open
- Continuing substantive cross-cutting issues in Human Performance and Problem Identification and Resolution
- NRC performing CAL Followup Inspections