

Salem and Hope Creek Annual Assessment Meeting

Reactor Oversight Process - CY 2005



Nuclear Regulatory Commission - Region I
King of Prussia, Pennsylvania

May 17, 2006

Purpose of Today's Meeting

- A public forum for discussion of the Salem and Hope Creek Station performance
- NRC will address Salem and Hope Creek performance during the assessment period
- PSEG will be given the opportunity to respond to the issues identified and inform the NRC of new or existing programs to maintain or improve their performance
- PSEG will provide an update on the progress to improve safety conscious work environment

Agenda

- Introduction
- NRC Presentation
 - Review of Reactor Oversight Process
 - National Summary of Plant Performance
 - Discussion of Plant Performance Results
 - 'B' Reactor Recirculation Pump Monitoring Activities
- PSEG Presentation
 - Response to Performance Results
 - 'B' Reactor Recirculation Pump Actions
 - Update on Progress to Improve Safety Conscious Work Environment
- NRC Closing Remarks
- Break
- NRC Available to Address Public Questions

Region I Organization

Samuel J. Collins
Regional Administrator

Marc L. Dapas
Deputy Regional Administrator

Brian E. Holian
Director, Division of Reactor Projects

David C. Lew
Deputy Director

A. Randolph Blough
Director, Division of Reactor Safety

Marsha K. Gamberoni
Deputy Director

Mel Gray
Branch Chief

Regional Specialists

Salem
Resident Inspectors
Dan Orr
Harry Balian

Hope Creek
Resident Inspectors
George Malone
Ted Wingfield

Project Engineers
Blake Welling
Sammy McCarver
Doug Tift

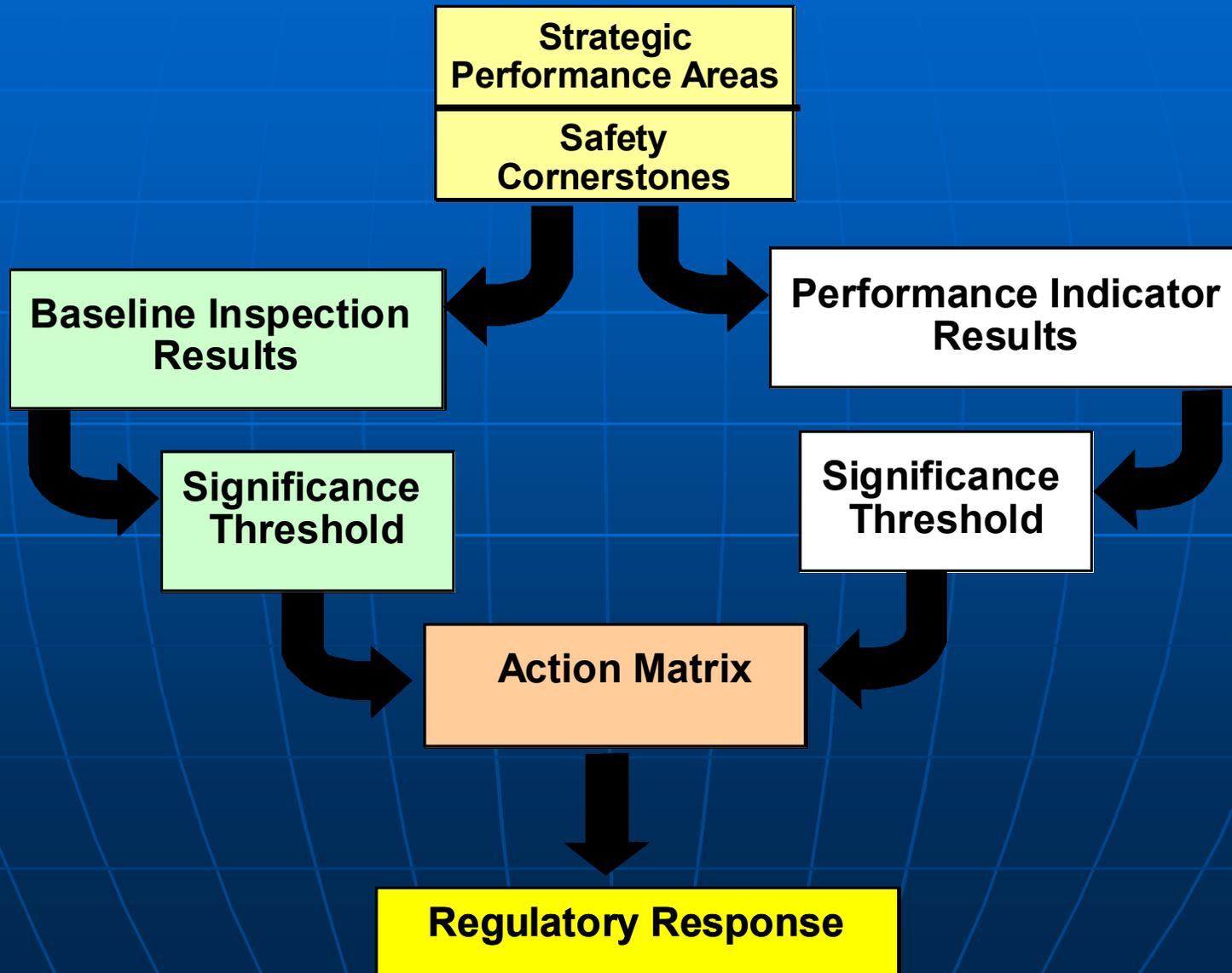
NRC Representatives

- M. Dapas, Deputy Regional Administrator, Region I
- B. Holian, Director, Division Reactor Projects
- M. Gray, Chief, Projects Branch 3
- D. Orr, Senior Resident Inspector, Salem
- H. Balian, Resident Inspector, Salem
- G. Malone, Senior Resident Inspector, Hope Creek
- T. Wingfield, Resident Inspector, Hope Creek
- S. Bailey, Project Manager, NRR
- L. Jarriel, Agency Allegations Advisor, OE

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' strategic objective

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

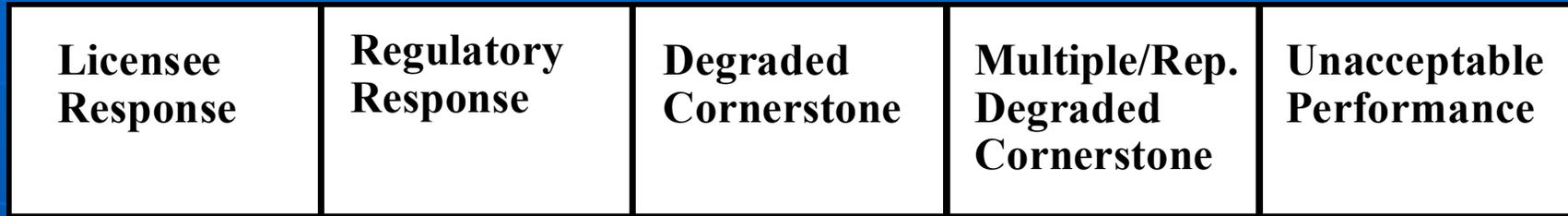
Performance Indicators

| | |
|----------------|-----------------------------|
| Green: | Baseline Inspection |
| White: | Increased 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 |

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 |
| <hr/> Total | <hr/> 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 |

ROP Deviation

- On August 23, 2004 the NRC Executive Director for Operations approved a deviation from the Action Matrix for Salem and Hope Creek
- On July 29, 2005 the NRC renewed the deviation from the Action Matrix
- Authorizes a greater level of oversight for the Salem and Hope Creek stations than would typically be called for by the Regulatory Response Column of the Action Matrix
- The heightened oversight will continue until PSEG has concluded that substantial, sustainable progress has been made; and the NRC has completed a review, the results of which confirm PSEG's assessment results.

Salem Inspection Activities

January 1 - December 31, 2005

- 9644 Hours of Inspection Related Activities
- 2 Full-Time Resident Inspectors
- 14 Regional Specialist Inspection Activities
- 4 Site-Wide NRC Team Inspections
 - 2 Problem Identification and Resolution Inspections
 - Inspection of the Safety Conscious Work Environment
 - Employee Concerns Program Inspection

Salem Assessment Results

January 1 - December 31, 2005

- Salem 1
 - Licensee Response Column of NRC Reactor Oversight Process Action Matrix
 - 16 Findings of Very Low Safety Significance (Green)
 - All Performance Indicators 'Green'
- Salem 2
 - Licensee Response Column of NRC Reactor Oversight Process Action Matrix
 - 13 Findings of Very Low Safety Significance (Green)
 - All Performance Indicators 'Green'

Salem

Annual Assessment

January 1 - December 31, 2005

- PSEG operated Salem Units 1 & 2 in a manner that preserved public health and safety
- At the end of CY2005, both Salem Units are in the Licensee Response column of the Action Matrix
- NRC closed a long-standing substantive cross-cutting issue concerning problem identification and resolution

Salem

Annual Assessment (continued)

January 1 - December 31, 2005

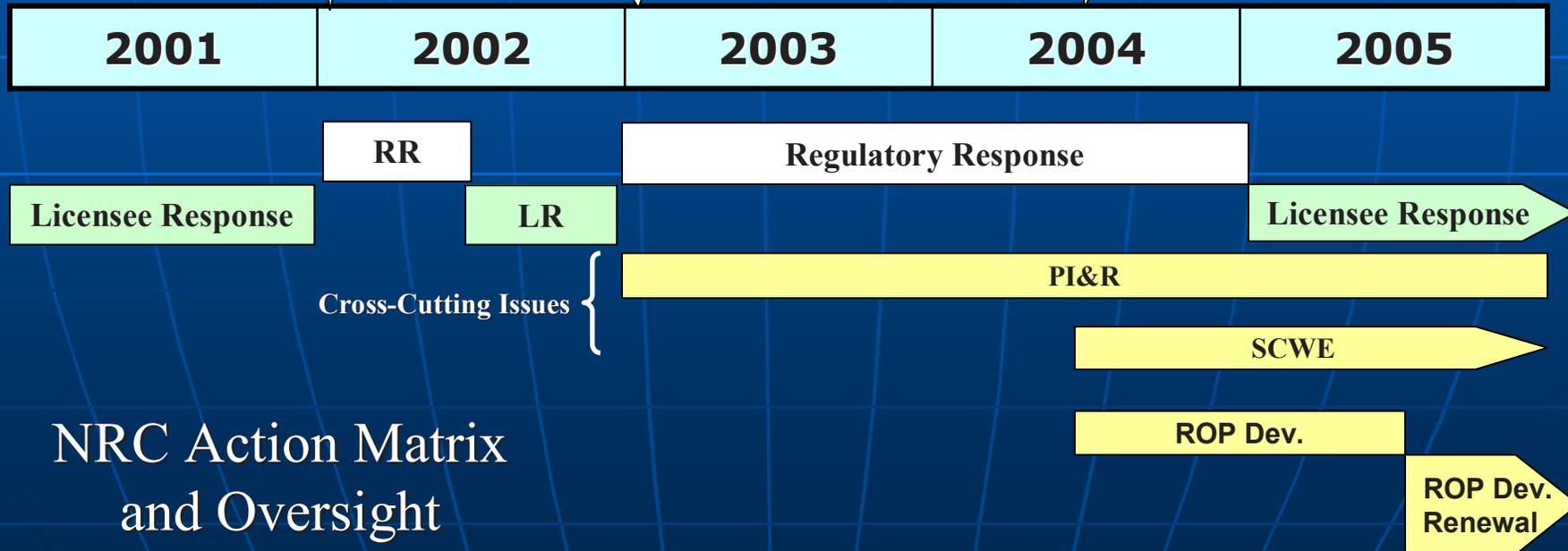
- A substantive cross-cutting issue remains in the area of Safety Conscious Work Environment (SCWE)
- An NRC team inspection of the SCWE is planned for June 2006
- ROP Deviation Memo continues
 - Provides for heightened oversight of the work environment

Salem 1 Performance

WHITE Performance Indicator
Unplanned Power Changes

WHITE Finding
Emergency Diesel Generator
Turbo Charger Failure

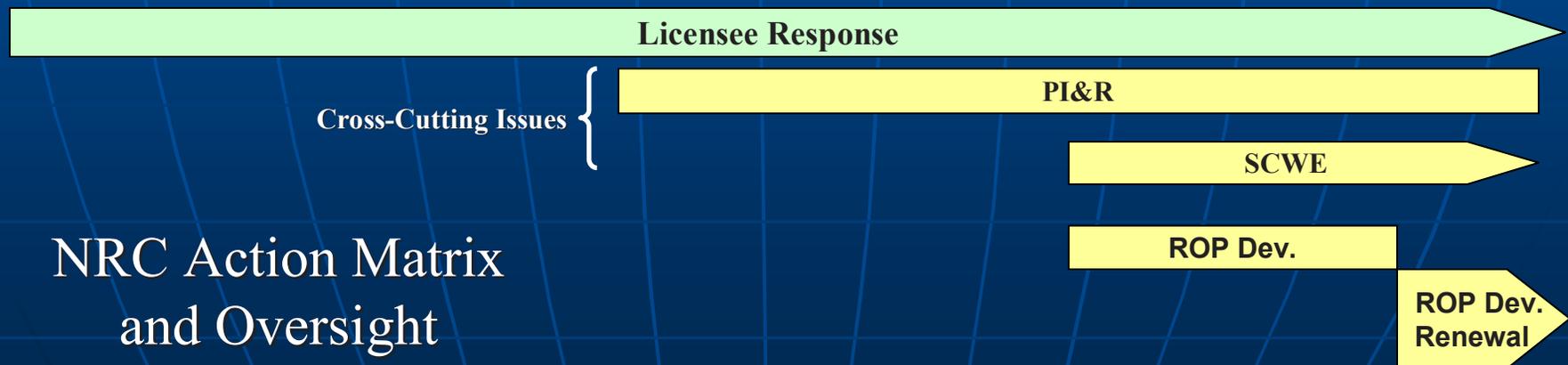
ROP Deviation Memorandum
August 23, 2004



NRC Action Matrix
and Oversight

Salem 2 Performance

ROP Deviation Memorandum
August 23, 2004



NRC Action Matrix
and Oversight

Hope Creek Inspection Activities

January 1 - December 31, 2005

- 7405 Hours of Inspection Related Activities
- Two Full-time Resident Inspectors
- 10 Regional Specialist Inspection Activities
- Supplemental inspection for white finding in 2004
- 4 Site-Wide NRC Team Inspections
 - 2 Problem Identification and Resolution Inspections
 - Inspection of the Safety Conscious Work Environment
 - Employee Concerns Program Inspection

Hope Creek Assessment Results

January 1 - December 31, 2005

- Returned to the Licensee Response Column of NRC Reactor Oversight Process Action Matrix 4th Quarter of 2005
 - 16 Findings of Very Low Safety Significance (Green)
 - All Performance Indicators 'Green'

Hope Creek Annual Assessment

January 1 - December 31, 2005

- PSEG operated Hope Creek in a manner that preserved public health and safety
- At the end of CY2005, Hope Creek is in the Licensee Response column of the Action Matrix
- NRC closed a long-standing substantive cross-cutting issue concerning problem identification and resolution

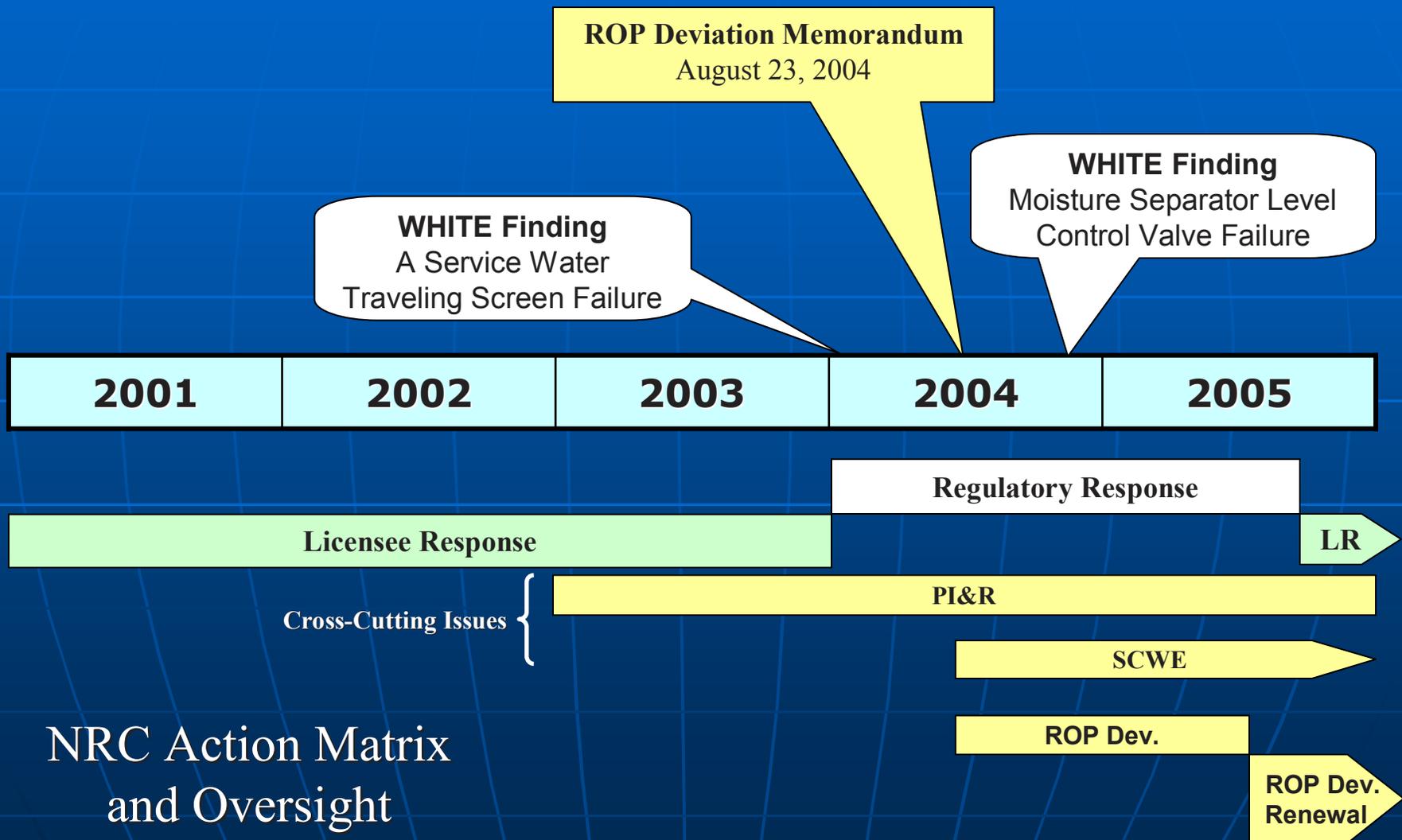
Hope Creek

Annual Assessment (continued)

January 1 - December 31, 2005

- A substantive cross-cutting issue remains in the area of Safety Conscious Work Environment (SCWE)
- An NRC team inspection of the SCWE is planned for June 2006
- ROP Deviation Memo continues
 - Provides for heightened oversight of the work environment

Hope Creek Performance



NRC Action Matrix
and Oversight

‘B’ Recirculation Pump Confirmatory Action Letter Monitoring Activities

- NRC performed detailed technical review of the pump vibration monitoring procedures
- NRC performed daily monitoring of reactor recirculation pump vibrations
- NRC reviewed vibration monitoring procedure changes prior to implementation
- NRC inspected activities during the refueling outage related to pump replacement

Licensee Response and Remarks

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

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)