



Byron Annual Assessment Meeting

Reactor Oversight Program - CY 2006



Nuclear Regulatory Commission - Region III

Byron, IL

May 8, 2007

Purpose of Today's Meeting

- Provide 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

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

Region III Organization

James Caldwell
Regional Administrator

Geoff Grant
Deputy Regional Administrator

Mark Satorius
Director Division of Reactor Projects (DRP)

Steve West
Deputy Director

Cynthia Pederson
Director Division of Reactor Safety (DRS)

Anne Boland
Deputy Director

Richard Skokowski
Branch Chief

Regional Specialists

Byron
Resident Inspectors
Bruce Bartlett
Raymond Ng

Project Engineer
Desiree Smith

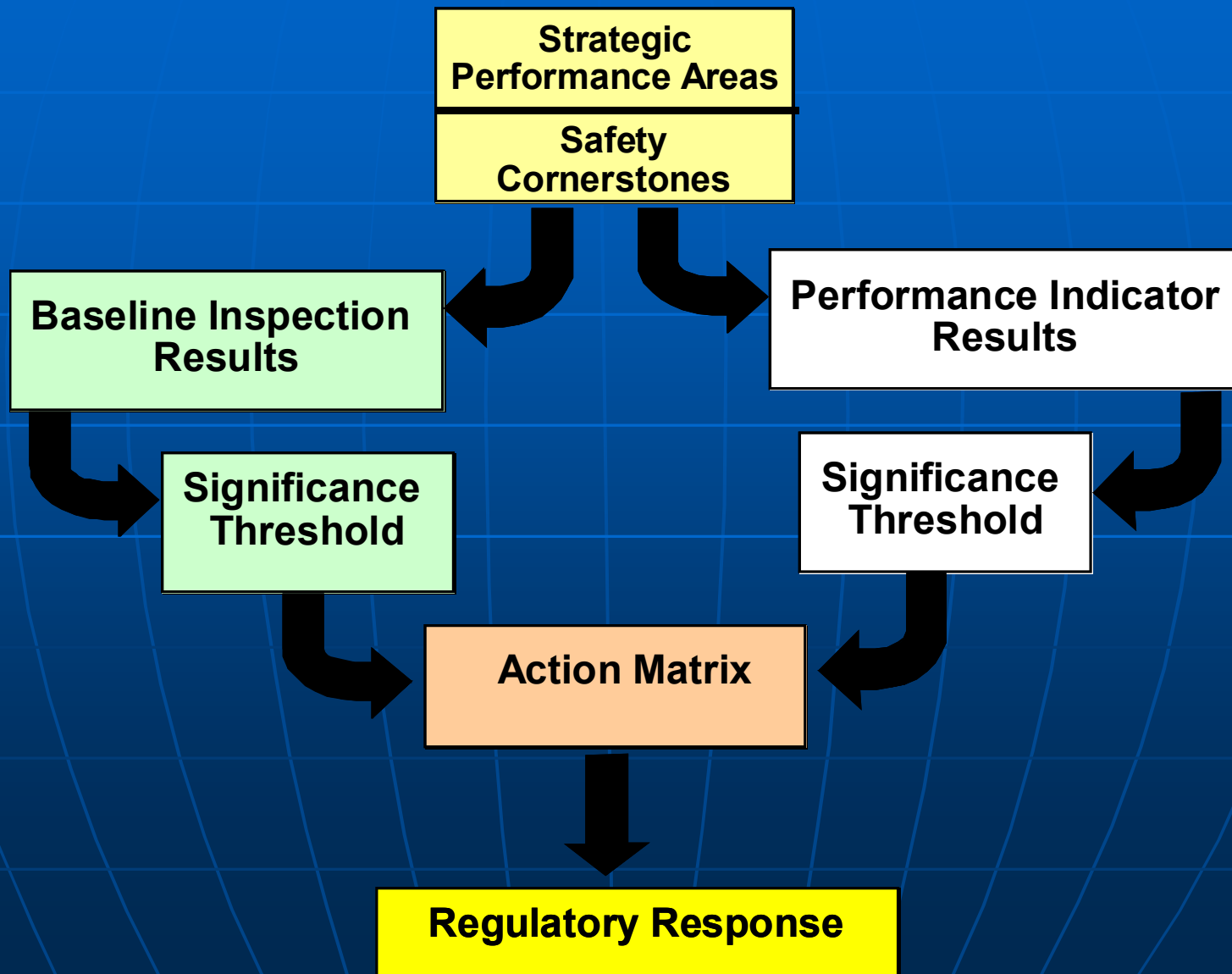
NRC Representatives

- Bruce Bartlett, Senior Resident Inspector
- (815) 234-5451
- Raymond Ng, Resident Inspector
- (815) 234-5451
- Richard Skokowski, Branch Chief, DRP
- (630) 829-9620

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



Significance Threshold

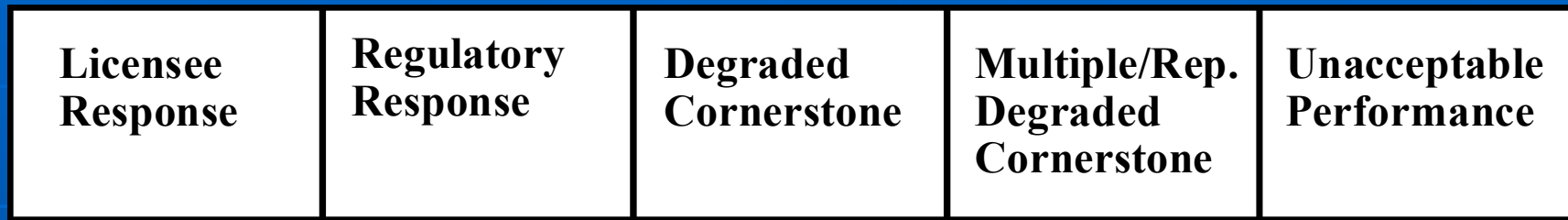
Performance Indicators

- Green:** Baseline Inspection only
- 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

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 2006

Licensee Response	70
Regulatory Response	24
Degraded Cornerstone	6
Multiple/Repetitive Degraded Cornerstone	3
Unacceptable	0
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Total	103

National Summary

- Performance Indicator Results (at end of CY 2006)

▶ Green	1843
▶ White	11
▶ Yellow	0
▶ Red	0

- Total Inspection Findings (CY 2006)

▶ Green	676
▶ White	13
▶ Yellow	0
▶ Red	0

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
- Radiological 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

Byron Assessment Results

(Jan 1 - Dec 31, 2006)

- Safety performance for the 4th quarter at Byron Unit 1 was within the Licensee Response column of the NRC Action Matrix. For the 4th quarter Byron Unit 2 was within the Regulatory Response column of the NRC Action Matrix.
- Unit 2 was within the Regulatory Response column due to the White Performance Indicator in the Mitigating Systems cornerstone.

Safety Significant Findings or PIs

- No safety significant findings were identified during this assessment period.
- A White Performance Indicator in the Mitigating Systems Performance Index (MSPI) was identified.
- On February 9, 2007, the NRC completed a supplemental inspection pursuant to Inspection Procedure 95001 due to the White Performance Indicator in the Mitigating Systems cornerstone. No findings of significance were identified.

Byron Inspection Activities

(Jan 1 - Dec 31, 2006)

- 10 findings during this assessment period
 - ▶ 6 in mitigating systems
 - ▶ 2 in barrier integrity
 - ▶ 1 in occupational radiation safety
 - ▶ 1 in public radiation safety
- One additional finding was evaluated separately using the traditional enforcement process

Byron Inspection Activities

(Jan 1 - Dec 31, 2006)

- Supplemental Inspection 95001 was completed on February 9, 2007
- Unit 1 had a refueling outage from September 10 – October 23, 2006.
- Unit 2 operated at or near full power throughout this inspection period with minor exceptions.

Byron Annual Assessment Summary

(Jan 1 - Dec 31, 2006)

- Exelon Nuclear operated Byron Units 1 & 2 in a manner that preserved public health and safety
- All cornerstone objectives were met with only one White Performance Indicator identified for Unit 2 Heat Removal System MSPI (Auxiliary Feedwater System)
- NRC plans baseline inspections at Byron for the remainder of the assessment period. A supplemental 95001 inspection was completed on February 9, 2007.

Licensee Response and Remarks

David Hoots
Site Vice President
Byron Generating Station

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 “About NRC > Organization and Functions” 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)