U.S.NRC
UNITED STATES NUCLEAR REGULATORY COMMISSION
Protecting People and the Environment

Byron Annual Assessment Meeting

Reactor Oversight Program - CY 2006

Nuclear Regulatory Commission - Region III

Byron, IL

May 8, 2007

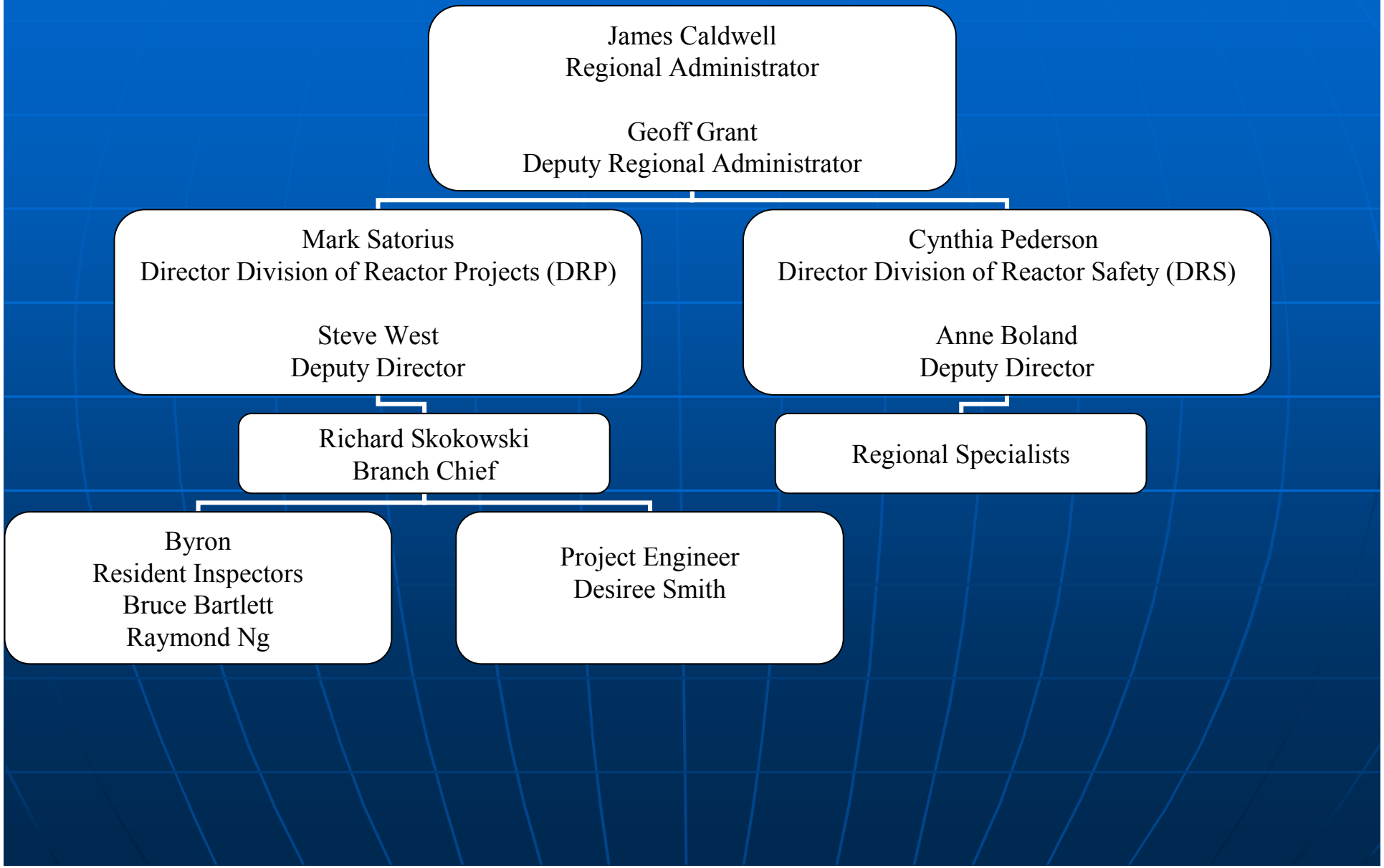
Purpose of Today's Meeting

- 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



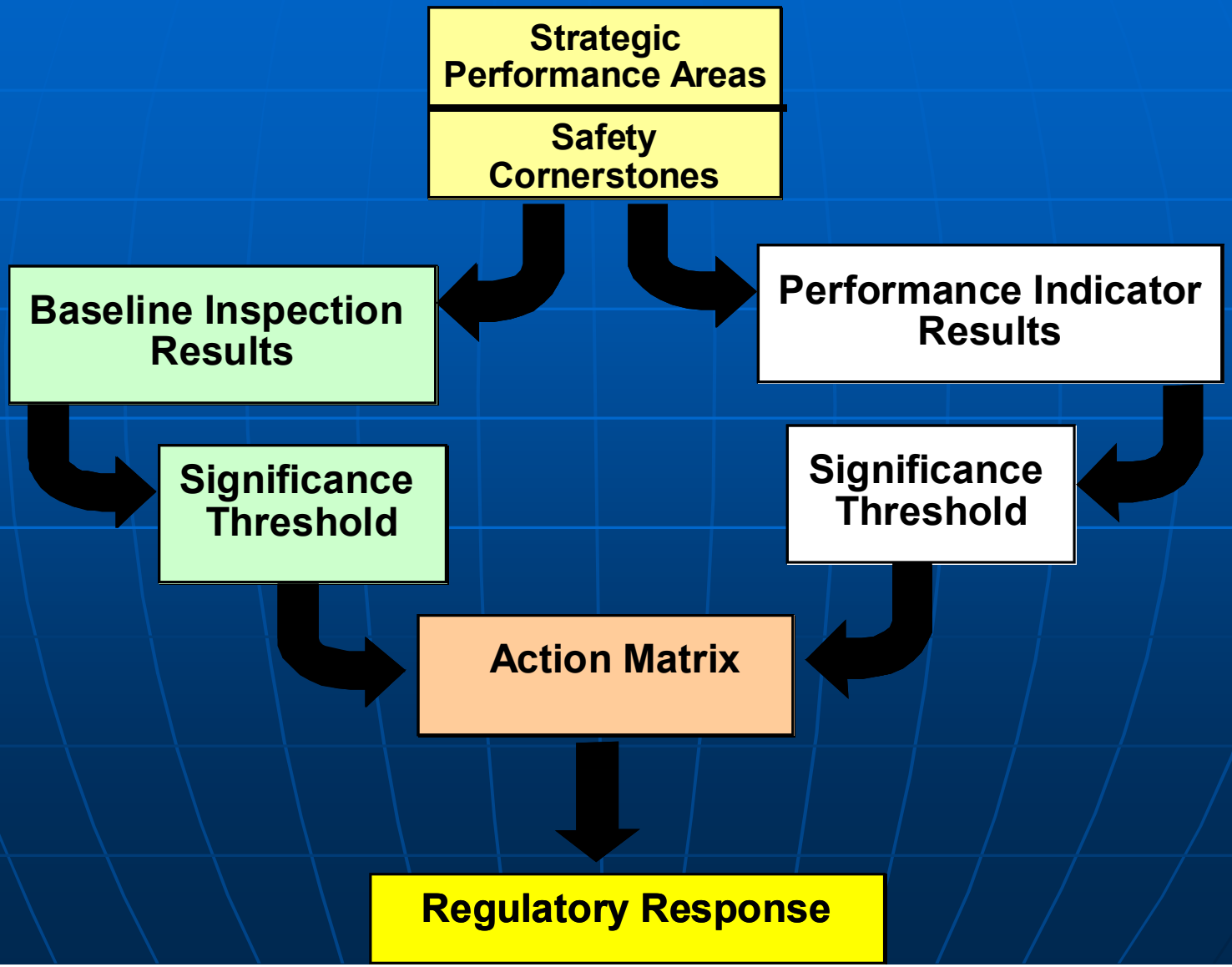
NRC Representatives

- 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

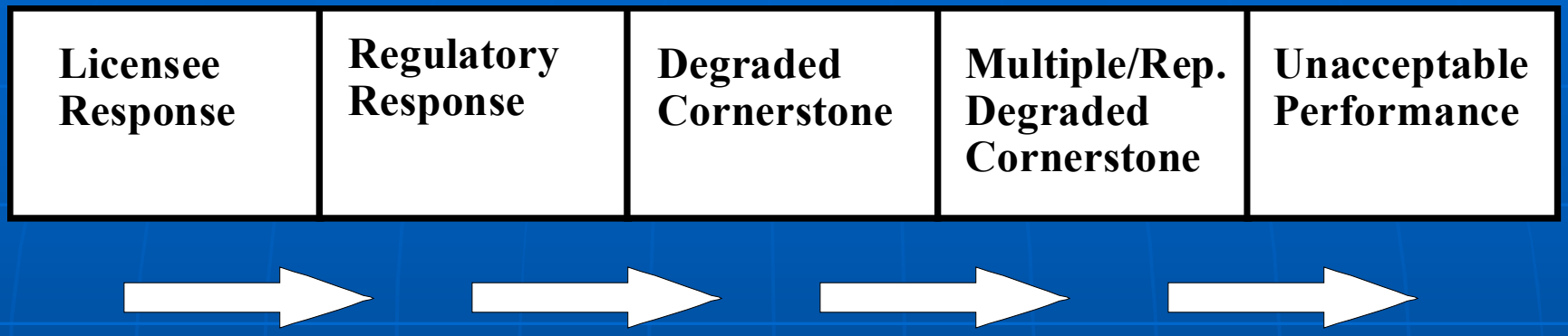
Green: Very low safety issue

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
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 conrnerstone. 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)