



Clinton Station Annual Assessment Meeting **Reactor Oversight Program - CY 2006**



Nuclear Regulatory Commission - Region III

Clinton, IL

May 9, 2007

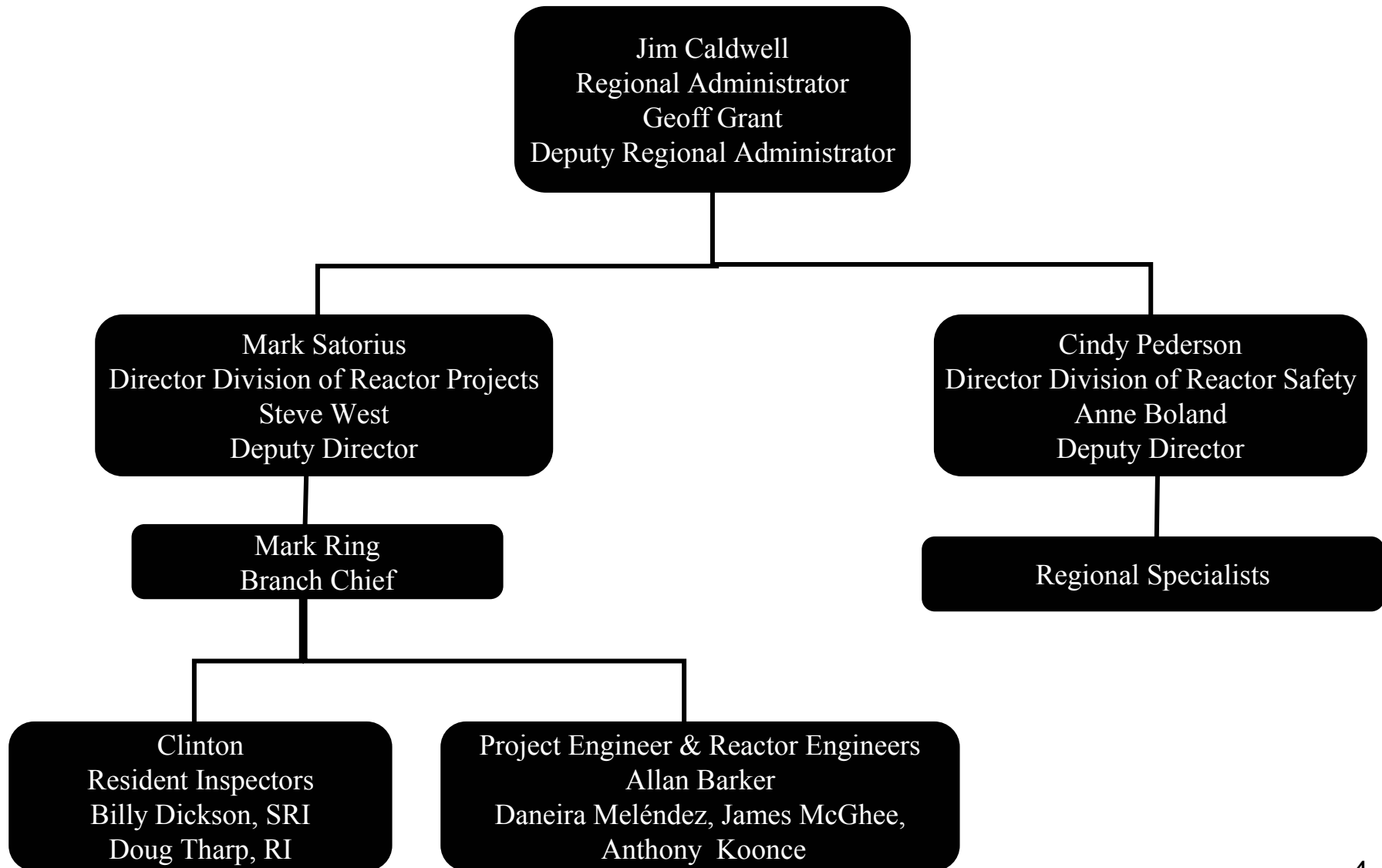
Purpose of Today's Meeting

- 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

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



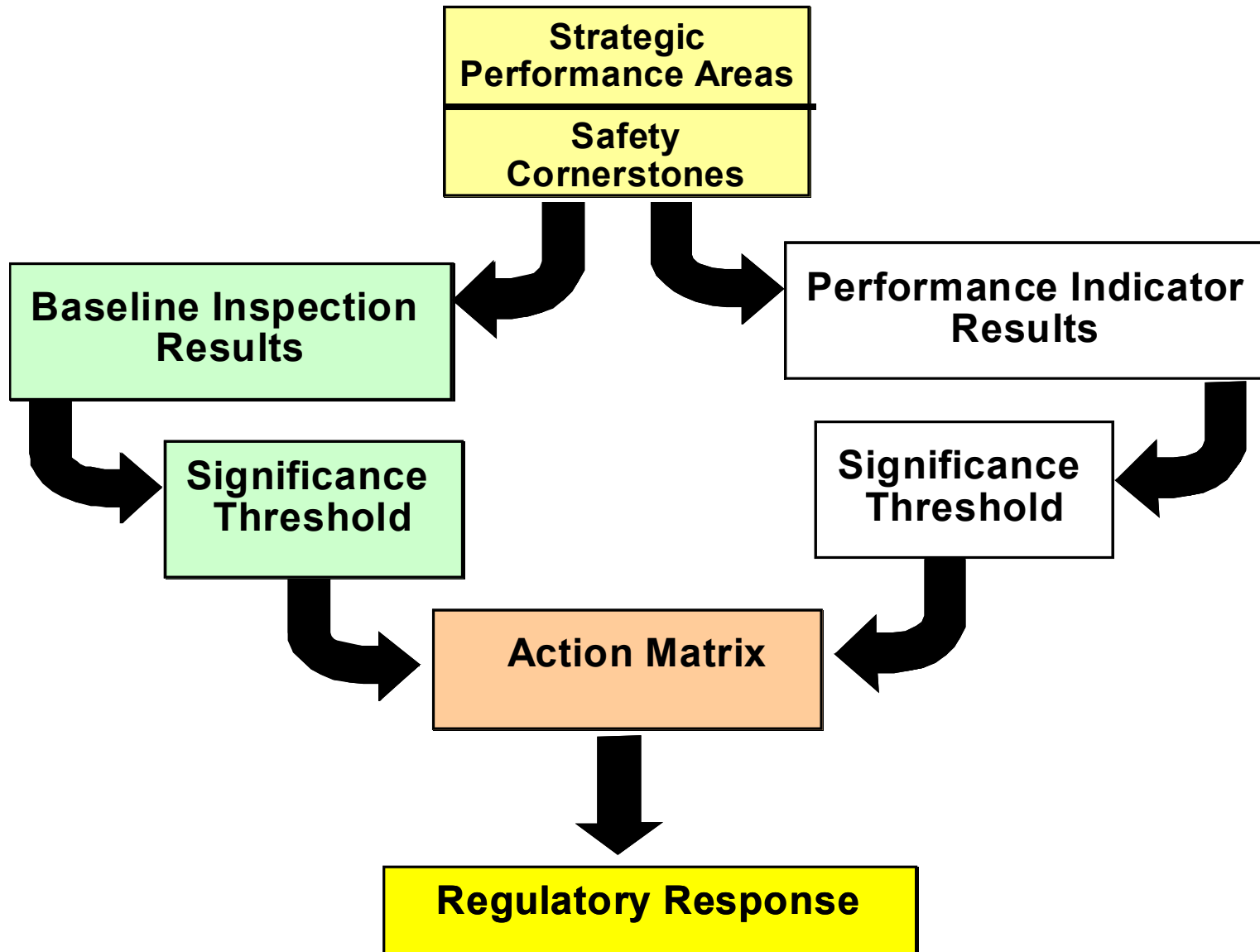
NRC Representatives

- Mark Satorius, Director, Division Reactor Projects
 - (630) 829-9600
- Steven West, Deputy Division Director, DRP
 - (630) 829-9601
- Stephen Sands, Project Manager, NRR
 - (301) 415-3154
- Billy Dickson, Senior Resident Inspector
 - (217) 935-9521
- Doug Tharp, Resident Inspector
 - (217) 935-9521
- Mark Ring, Branch Chief
 - (630) 829-9703
- Allan Barker, Project Engineer
 - (630) 829-9679

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 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

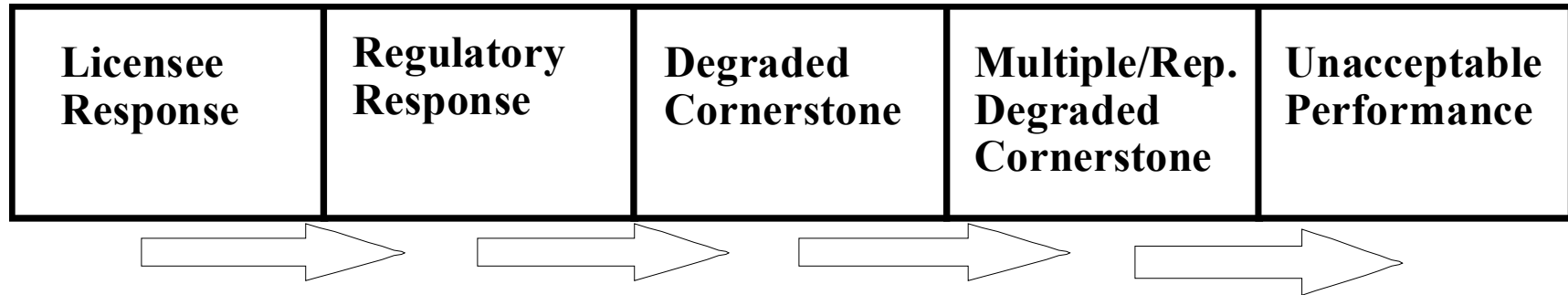
Performance Indicators

- Green:** 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

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

Clinton Power Station Assessment Results

(Jan 1 - Dec 31, 2006)

- Regulatory Response Action Matrix column due to 1 White finding and violation of 10 CFR 50 Appendix B Criterion III, Design Control, requirements.
- The White finding was issued as an apparent violation in November 2006 for failure to adequately address vortexing in the reactor core isolation cooling (RCIC) storage tank and its potential effect on the high pressure core spray (HPCS) and RCIC pumps.

Safety Significant Findings or PIs

- Clinton modified the suction piping and associated instrumentation to ensure the RCIC and HPCS pumps would not be impacted by the vortexing condition.
- A Supplemental Inspection will be conducted in 2007 using inspection procedure 95001 to review Clinton's root cause evaluation and associated corrective action plans.

Clinton Inspection Activities

(Jan 1 - Dec 31, 2006)

- NRC conducted approximately 1800 hours of direct inspection and 4000 hours of inspection activities at Clinton during CY 2006.
- Total of 6 Green Findings
- 1 White Finding
- No Substantive Cross-Cutting Issues
- Refueling outage in February 2006

Clinton Inspection Activities

(Jan 1 - Dec 31, 2006)

- In addition to baseline inspections the NRC performed the following inspections:
 - Plant Modifications and 50.59 Program
 - Tritium Contamination

Clinton Annual Assessment Summary

January 1 - December 31, 2006

- Exelon operated Clinton Power Station in a manner that preserved public health and safety.
- All cornerstone objectives were met with one White finding identified (design control associated with potential impact of vortexing on HPCS and RCIC pump suction).
- NRC plans baseline inspections at Clinton for the remainder of the assessment period and a supplemental inspection for the White finding.

Licensee Response and Remarks

Bryan Hanson
Clinton Site Vice President
Exelon Generating Company

Clinton Power Station

2006 Performance

- 89.7 % Capacity Factor
- Ø Industrial Safety Accident Rate
- Ø Fuel Defects
- Ø Human Performance Licensee Event Reports

Clinton Power Station

Commitment to Public Health and Safety

- Top Decile Safety System Availability
- New Tech Support Center
- Comprehensive Ground Water Monitoring

Clinton Power Station

Station Response to “White” Notice of Violation

- Emergency Core Cooling pump suction modified to regain margin
- Station design processes changed to consider low margin to instrumentation uncertainties
- Comprehensive review of over 700 design calculations underway

Clinton Power Station

2007 Focus Areas

- Operational Execution – Ensuring Safety of Public and Plant Personnel
- Equipment Reliability – Both in Generation and Emergency Response Equipment
- Meeting Generation Commitments – Keeping the Lights On
- Making Clinton A Great Place to Work and Live – Community Involvement

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)