



U.S. NRC

United States Nuclear Regulatory Commission

Protecting People and the Environment

NRC Annual Performance Assessment of Indian Point Units 2 & 3

2007 Reactor Oversight Program

Introductions

Nuclear Regulatory Commission

- Samuel Collins, Region I Administrator
- Mel Gray, Chief, DRP Projects Branch 2
- Mark Marshfield, Senior Resident Inspector, IP2
- Paul Cataldo, Senior Resident Inspector, IP3

Energy

- Joseph Pollock, Site Vice President
- Anthony Vitale, General Manager of Plant Operations
- Steven Verrochi, Manager of System Engineering
- Patric Conroy, Director of Nuclear Safety Assurance

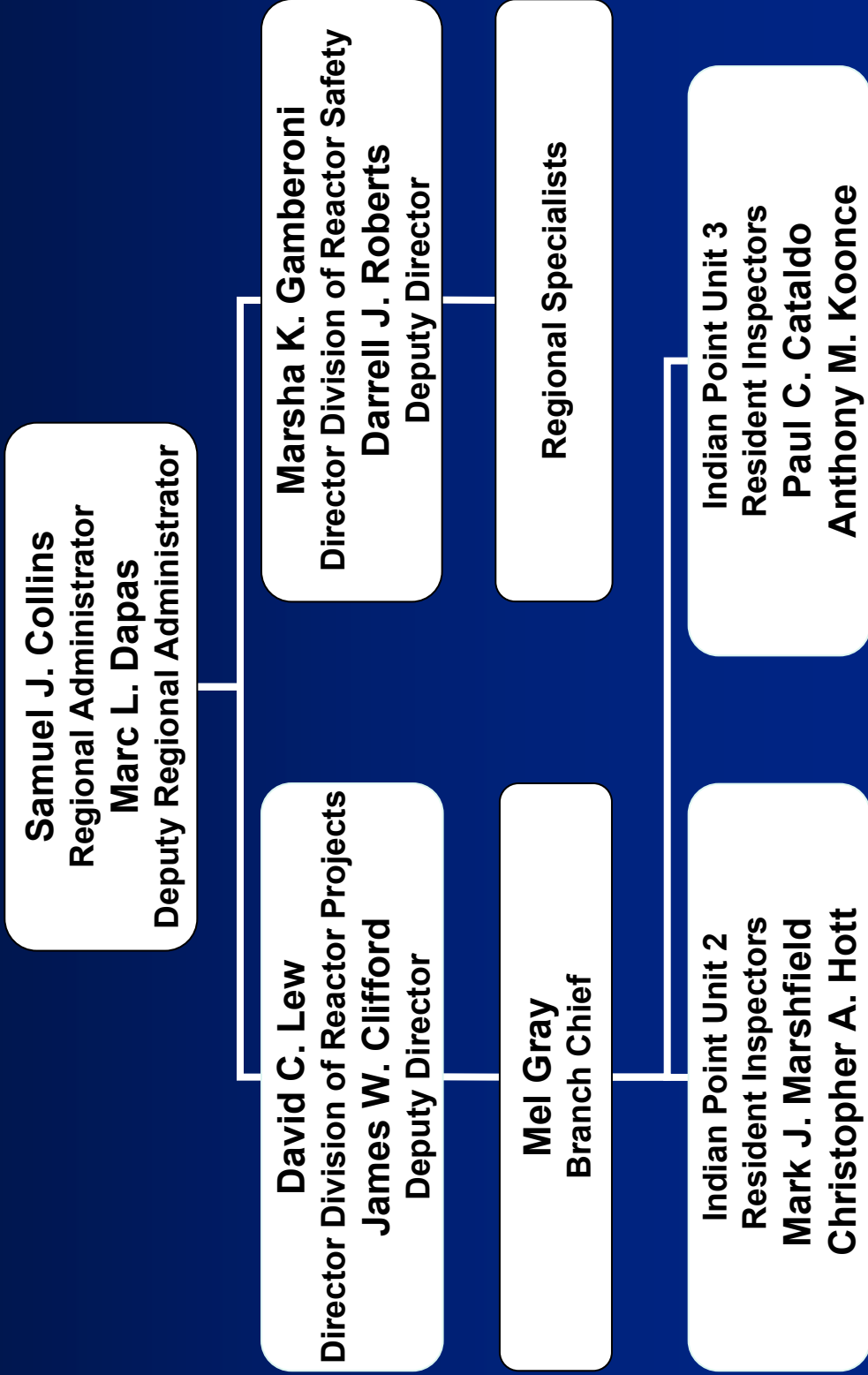
Purpose of Today's Meeting

- Discuss Entergy's Plant Performance for 2007
- Provide Entergy the opportunity to respond to the NRC's Annual Performance Assessment and to identify new or existing programs to continue to improve performance
- Provide members of the community the opportunity to discuss NRC's assessment of plant performance with the staff

Agenda

- NRC Organization and Performance Goals
- Reactor Oversight Process (ROP)
- National Summary of Plant Performance
- Indian Point Units 2 & 3 Plant Performance Assessment
- Entergy Response and Remarks
- NRC Closing Remarks
- Break
- Question & Answer Session with Public

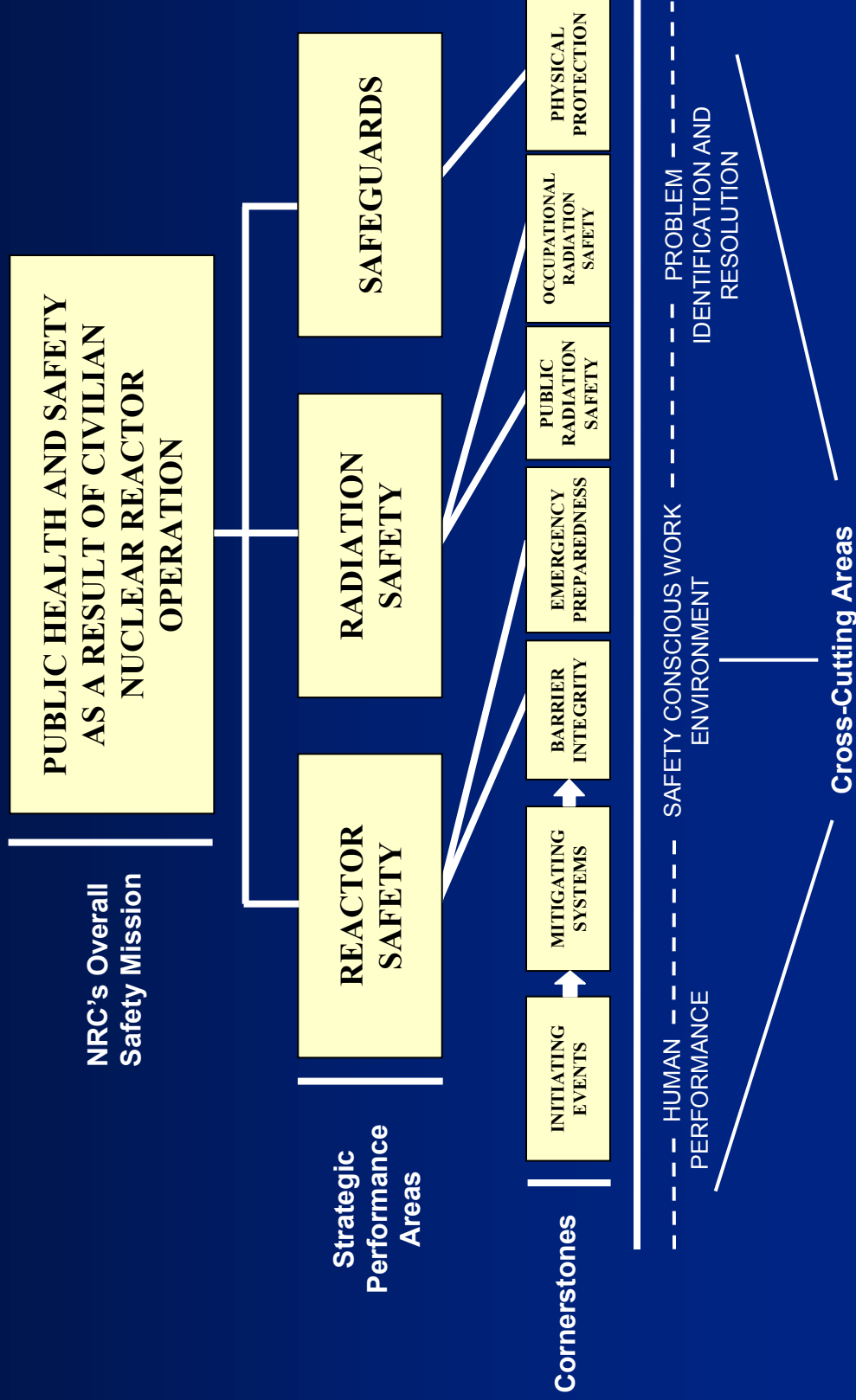
Region I Organization



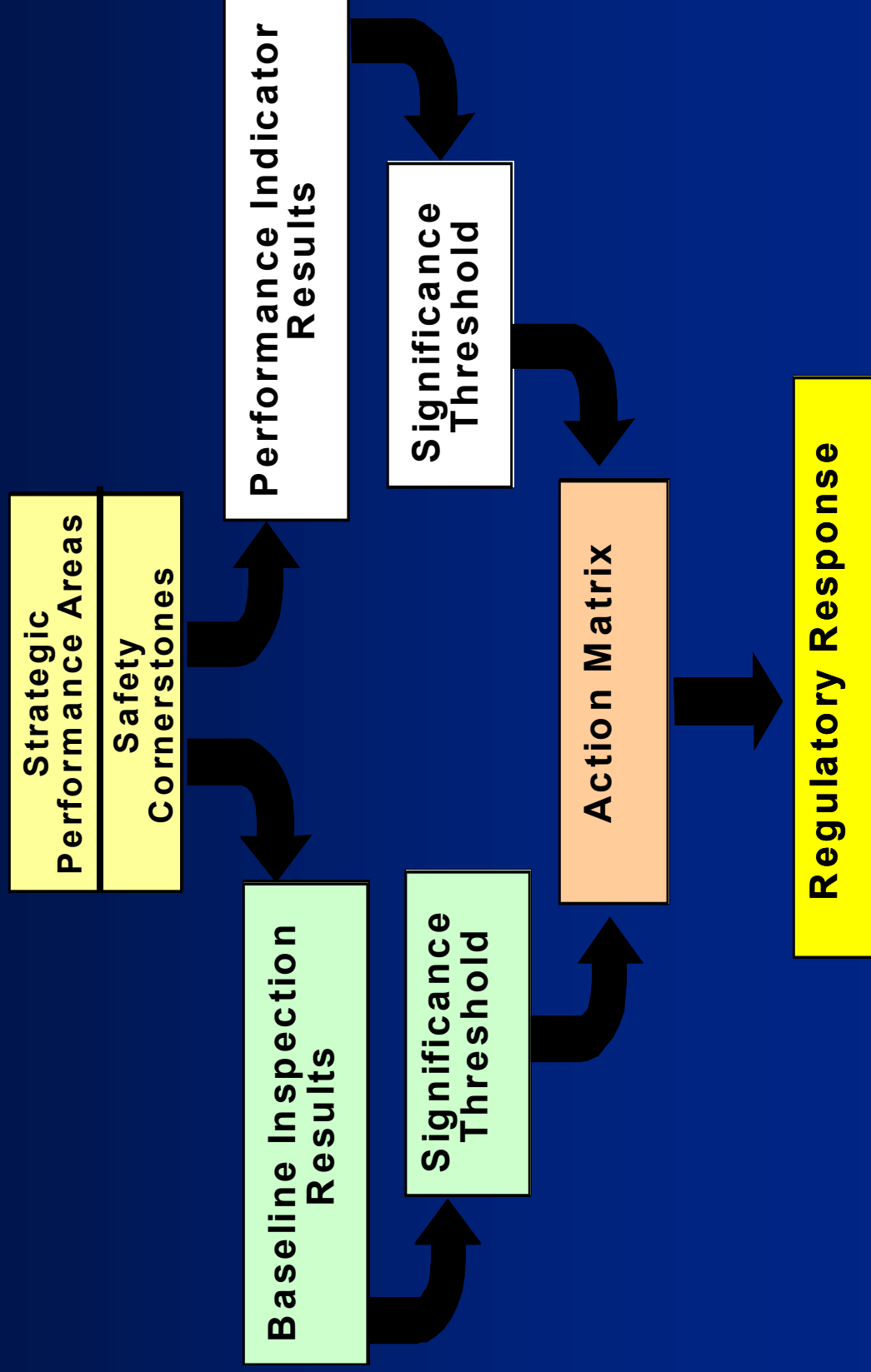
NRC Strategic Plan Goals

- **Safety:** Ensure adequate protection of public health and safety and the environment
- **Security:** Ensure adequate protection in the secure use and management of radioactive materials

Reactor Oversight Process



Reactor Oversight Process



Examples of Baseline Inspection Areas

- Maintenance
- Operator Training
- Emergency Preparedness
- Engineering
- Corrective Action Program
- Security Program

Significance Threshold

Performance Indicators

- **Green** Baseline Inspection
- **White** Increases NRC oversight
- **Yellow** Requires more NRC oversight
- **Red** Requires most 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

Reactor Oversight Process

- **Action Matrix Deviation**
 - Under certain circumstances, the NRC’s Executive Director for Operations may approve a deviation from the reactor oversight process to provide a level of regulatory action different than that required by the Action Matrix.
 - Currently, there are three active authorized deviations from the Reactor Oversight Process; Davis Besse, Peach Bottom and Indian Point.

National Summary of Plant Performance

Status at end of 2007

Licensee Response	87
Regulatory Response	8
Degraded Cornerstone	8
Multiple/Repetitive Degraded Cornerstone	1
Unacceptable	0
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Total	104

National Summary of Plant Performance

Status at end of 2007

Performance Indicator Results

➤ Green	1954
➤ White	7
➤ Yellow	2
➤ Red	0

Total Inspection Findings

➤ Green	918
➤ White	9
➤ Yellow	2
➤ Red	0

NRC Inspection Activities at Indian Point Units 2 & 3

- 9200/7630 hours of inspection and related activities
- 4 resident inspectors on-site
- 16/14 regional inspections
- Example team inspections conducted:
 - Physical Security Inspection
 - Triennial Fire Protection
 - Component Design Bases Inspection
 - Operator Licensing Exams
 - Emergency Preparedness

Indian Point Unit 2 & 3 PIs / Findings

Unit 2:

- All Performance Indicators were Green for calendar year 2007
- 20 Green inspection findings

Unit 3:

- One White Performance Indicator (PI) in the Initiating Events cornerstone during the 2nd quarter of 2007
 - Unplanned Scrams per 7000 Critical Hours PI
- All other PIs were Green
- 16 Green inspection findings

Indian Point Unit 2 & 3 Substantive Cross-Cutting Issues

Unit 2:

- NRC continued a substantive cross-cutting issue concerning human performance
- NRC identified a substantive cross-cutting issue concerning problem identification and resolution

Unit 3:

- NRC identified a substantive cross-cutting issue concerning human performance

Safety Culture Assessment

- Third consecutive assessment letter identifying a substantive cross-cutting issue associated with procedural adequacy
- NRC requested Entergy conduct an assessment of safety culture at Indian Point
- The assessment is being conducted by individuals independent from corporate and the site organization
- The NRC will inspect the outcome of Entergy's assessment

ROP Deviation Memo

- Groundwater (Public Meeting held May 18, 2008)
- Alert and Notification System Sirens
- NRC will continue enhanced oversight until Entergy has completed all actions described in the Deviation Memo

NRC Annual Assessment Summary

- Entergy continues to operate both units safely
- NRC inspection and oversight will closely monitor Entergy's progress in addressing:
 - Unit 2 & 3 procedure adequacy
 - Unit 2 implementation of corrective actions
 - Indian Point Energy Center safety culture
- NRC enhanced oversight continues for key issues:
 - Onsite groundwater contamination
 - Alert and notification system sirens

Licensee Response and Remarks

Mr. Joseph Pollock

Site Vice President – Indian Point Energy Center
Entergy Nuclear Operations, Inc.

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”
 - Select “How We Regulate”
- Region I Public Affairs
 - (610) 337-5330/5331

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)



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Break

Nuclear Regulatory Commission – Region I
King of Prussia, Pennsylvania

July 2, 2008

Meeting Facilitator

Karl Farrar
Regional Counsel
Region I

Meeting Ground Rules

- Please be respectful to the speaker - Only one speaker at a time
- See NRC staff if you have procedural questions / concerns or still want to sign up
- NRC staff members will be available after the meeting if we can not get to all interested speakers this evening