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U.S. NRC

UNITED STATES NUCLEAR REGULATORY COMMISSION

Protecting People and the Environment

**NRC Annual Performance
Assessment
of
Indian Point Units 2 & 3**

2008 Reactor Oversight Process

Nuclear Regulatory Commission – Region I



Introductions

Nuclear Regulatory Commission

- Mel Gray, Chief, DRP Projects Branch 2
- Paul Cataldo, Senior Resident Inspector, IP3
- Chris Hott, Resident Inspector, IP2
- John Boska, Project Manager, NRR

Entergy

- Joseph Pollock, Site Vice President
- Anthony Vitale, General Manager of Plant Operations
- Thomas Orlando, Engineering Director
- Don Mayer, Director of Special Projects



Purpose of Today's Meeting

- Discuss the Indian Point Energy Center's safety performance for 2008
- Provide Entergy the opportunity to respond to the NRC's annual performance assessment and to discuss its actions to maintain or improve performance
- Provide stakeholders the opportunity to ask the NRC staff questions regarding plant performance and our role in ensuring safe plant operations



Agenda

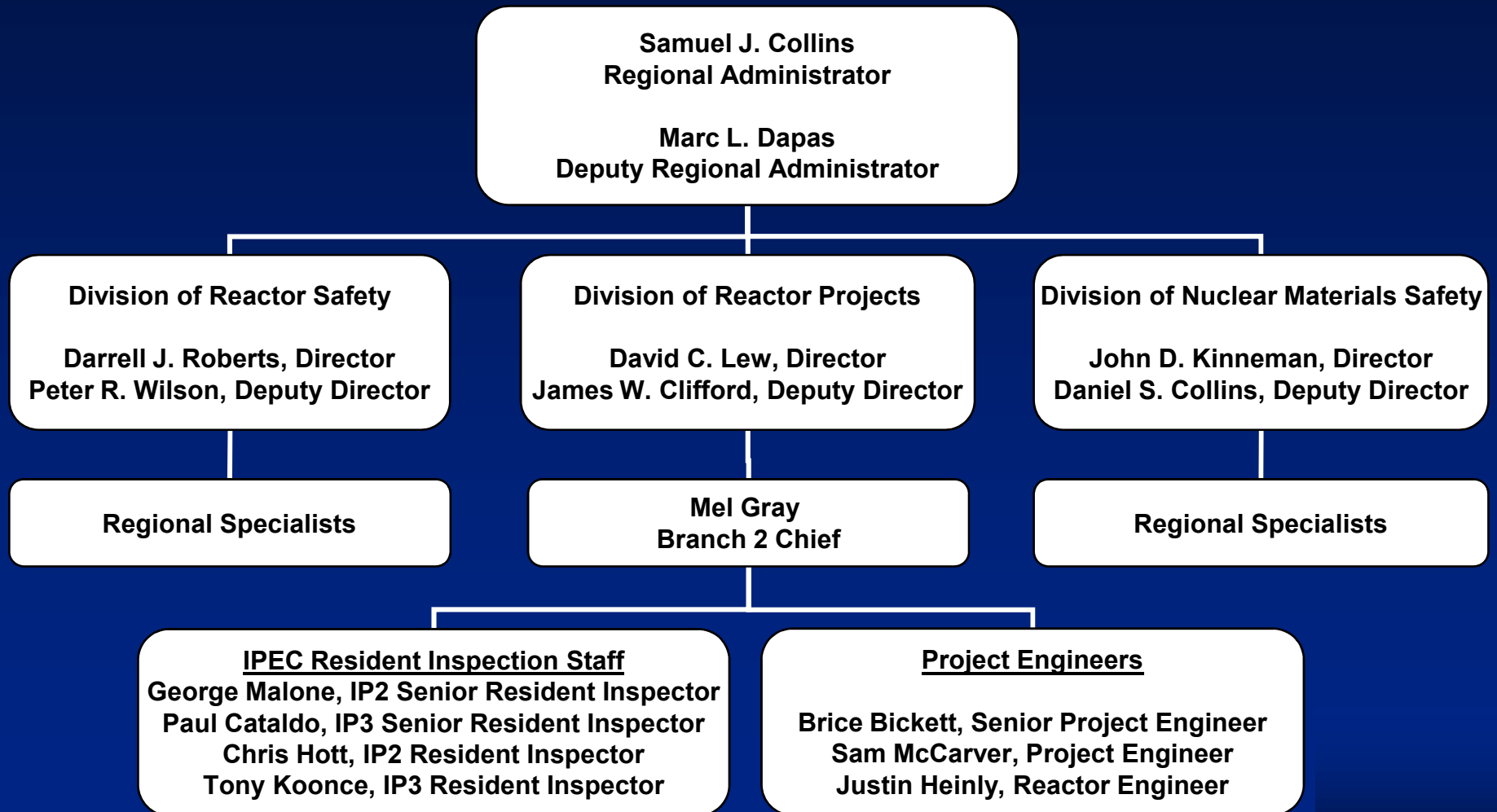
- Introduction
- NRC Organization and Performance Goals
- Reactor Oversight Process (ROP)
- Indian Point Units 2 & 3 Plant Performance Assessment
- Entergy's Response and Remarks
- NRC Closing Remarks
- Break
- NRC available to address public questions



NRC Annual Assessment Summary Indian Point Units 2 & 3

- Entergy operated the units safely and in a manner that preserved public health and safety and protected the environment
- Indian Point Units 2 & 3 were in the Licensee Response column of the NRC's Action Matrix for all of 2008

Region I Organization

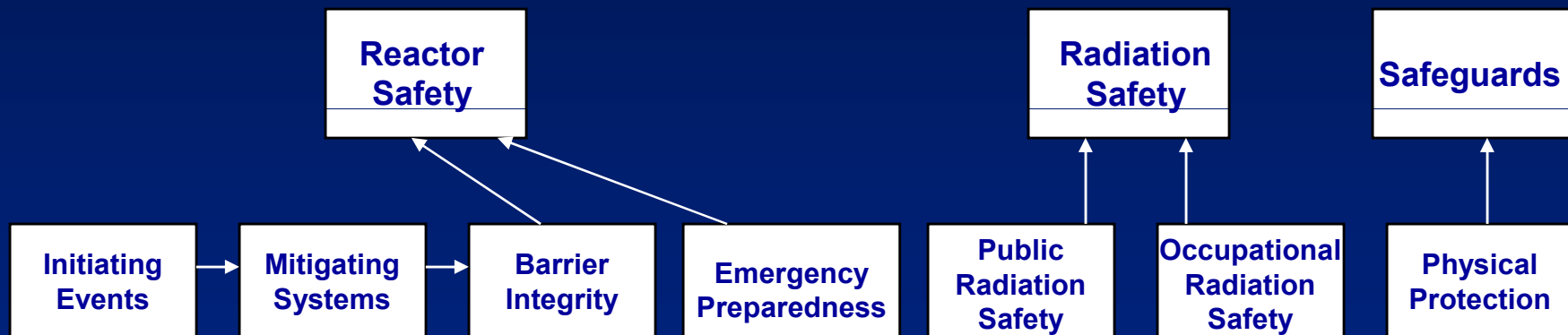


NRC Strategic Plan Goals

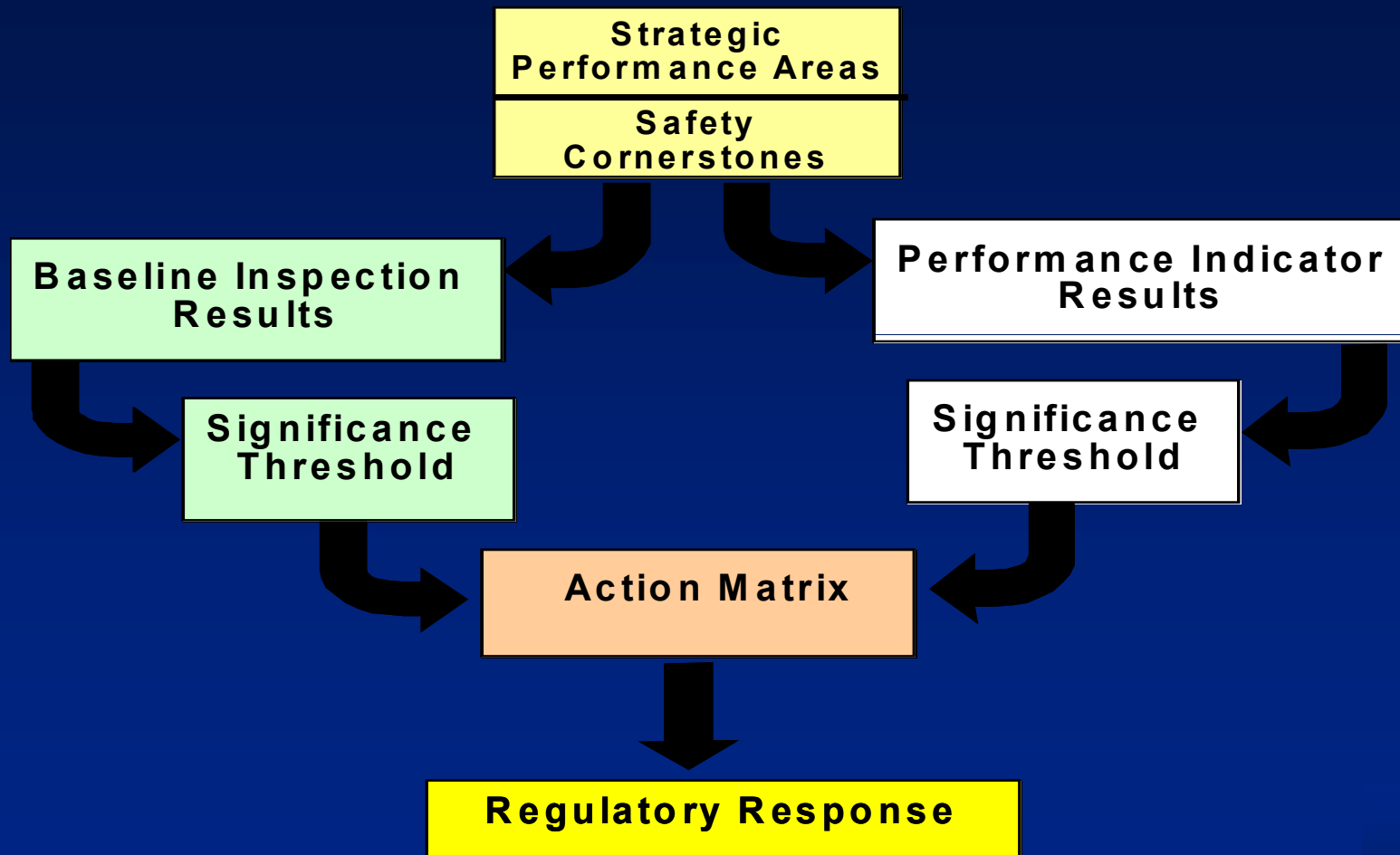
- Safety: Ensure adequate protection of public health and safety and the environment
- Security: Ensure adequate protection in the secure use and management of radioactive materials

Reactor Oversight Process

3 Strategic Areas & 7 Cornerstones



Reactor Oversight Process



Examples of Baseline Inspection Areas

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

Performance Indicators

Unplanned Scrams (G)	Emergency AC Power System (G)	RCS Specific Activity (G)	Drill/Exercise Performance (G)	Occupational Exposure Control Effectiveness (G)	RETS/ODCM Radiological Effluent (G)	Security (Not Public)
Unplanned Scrams with Complications (G)	High Pressure Injection System (G)	RCS Leakage (G)	ERO Drill Participation (G)			
Unplanned Power Changes (G)	Residual Heat Removal System (G)		Alert and Notification System (G)			
	Heat Removal System (G)					
	Cooling Water Systems (G)					
	Safety System Functional Failures (G)					

Significance Threshold

Performance Indicators

- **Green** Baseline Inspection
- **White** Requires 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.
- There are two sites with active authorized deviations from the Reactor Oversight Process: Indian Point & Davis-Besse.



NRC Annual Assessment Summary Indian Point Units 2 & 3

- Entergy operated the units safely and in a manner that preserved public health and safety and protected the environment
- Indian Point Units 2 & 3 were in the Licensee Response column of the NRC's Action Matrix for all of 2008



NRC Inspection Activities at Indian Point Units 2 & 3 (for 2008)

- 9672/7036 hours of inspection and related activities
- 4 resident inspectors on-site
- 14 regional inspections
- 6 major team inspections:
 - ✓ License Renewal Inspection – Units 2 & 3
 - ✓ Emergency Preparedness Evaluated Exercise - Units 2 & 3
 - ✓ Triennial Fire Protection Inspection – Unit 3
 - ✓ Permanent Plant Modifications – Unit 3
 - ✓ Security Inspections – Units 2 & 3
 - ✓ Problem Identification & Resolution – Unit 2

Indian Point Pls / Findings (January 1 – December 31, 2008)

- All “Green” Performance Indicators
- IP2 - 15 “Green” inspection findings
- IP3 - 15 “Green” inspection findings

Indian Point Unit 2 & 3 Substantive Cross-Cutting Issues

Problem Identification and Resolution

- IP2 - NRC closed a Substantive Cross-Cutting Issue (SCCI) concerning problem identification and resolution

Human Performance

- IP 2 & 3 - NRC closed a SCCI in human performance related to procedure adequacy



Safety Culture Assessment (SCA)

- NRC requested Entergy perform SCA at Indian Point
- NRC reviewed SCA results and Entergy's actions to address substantive cross-cutting issue in the area of human performance
- NRC concluded actions were sufficient to clear the substantive cross-cutting issue
- NRC will conduct baseline inspections to follow Entergy actions

NRC Inspection Findings **Indian Point**

Unit 2

- Inspectors identified a drain valve in the auxiliary feed water system was not in the correct position
- Inspectors determined that applicable Indian Point procedures were not used to repair a steam leak on a check valve

NRC Inspection Findings Indian Point

Unit 3

- Technicians improperly performed a test that caused a loss of power to an electrical bus and the automatic start of an emergency diesel generator.
- Technicians incorrectly attached two temporary electrical wires during a test which caused an inadvertent start of two motor-driven auxiliary feed pumps.



NRC Annual Assessment Summary **Indian Point Units 2 & 3**

- **Indian Point Units 2 & 3 were in the Licensee Response column of the NRC's Action Matrix for 2008.**
- **All cornerstone objectives were fully met.**
- **NRC plans to implement baseline inspections at Indian Point for the remainder of 2009.**

ROP Deviation Memo

- Groundwater - NRC will continue enhanced oversight until:
 - 1) Entergy has completed sufficient data collection and assessment to establish a new groundwater contaminant baseline
 - 2) Entergy has determined whether active leakage has been terminated or continues to persist in regard to IP2 spent fuel pool; and has implemented appropriate monitoring and control measures, as necessary
 - 3) Entergy has established and implemented effluent control and environmental monitoring procedures



Contacting the NRC

- Report a safety concern:
 - (800) 695-7403
 - Allegation@nrc.gov
- General information or questions:
 - www.nrc.gov
 - Region 1 Public Affairs
 - ❖ Diane Screnci, 610-337-5330 or diane.screnci@nrc.gov
 - ❖ Neil Sheehan, 610-337-5331 or neil.sheehan@nrc.gov



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)



U.S.NRC

UNITED STATES NUCLEAR REGULATORY COMMISSION

Protecting People and the Environment

Break

Nuclear Regulatory Commission – Region I

King of Prussia, Pennsylvania

May 21, 2009



Meeting Facilitator

Karl Farrar
Regional Counsel
Region I

Meeting Ground Rules

- Please switch cell phones ringers and pagers to silent mode.
- Please be respectful of 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