



U.S.NRC

UNITED STATES NUCLEAR REGULATORY COMMISSION

Protecting People and the Environment

PILGRIM
Annual Assessment Meeting

2008 Reactor Oversight Process

Nuclear Regulatory Commission – Region I



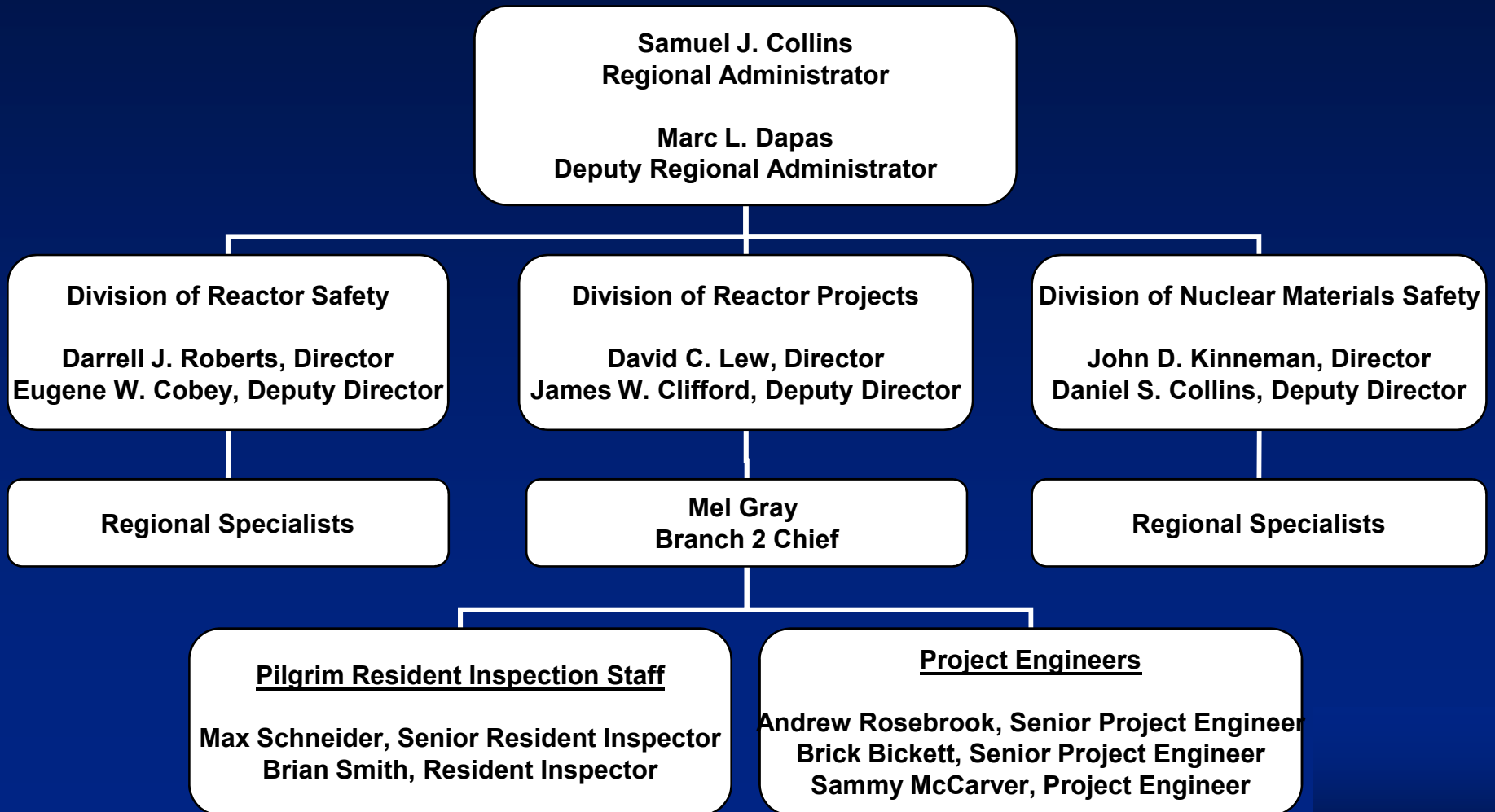
Purpose of Today's Meeting

- **Discuss the Pilgrim Nuclear Power Station's safety performance for 2008**
- **Provide Entergy the opportunity to respond to the NRC's annual performance assessment and to discuss their actions to maintain or improve performance**
- **Provide stakeholders the opportunity to address questions to the NRC staff regarding Pilgrim plant performance and our role in ensuring safe plant operations**

Agenda

- Introduction
- NRC Organization and Performance Goals
- Reactor Oversight Process (ROP)
- National Summary of Plant Performance
- NRC Assessment of Pilgrim's Performance
- Entergy's Response and Remarks
- NRC Closing Remarks
- Break
- NRC available to address public questions

Region I Organization

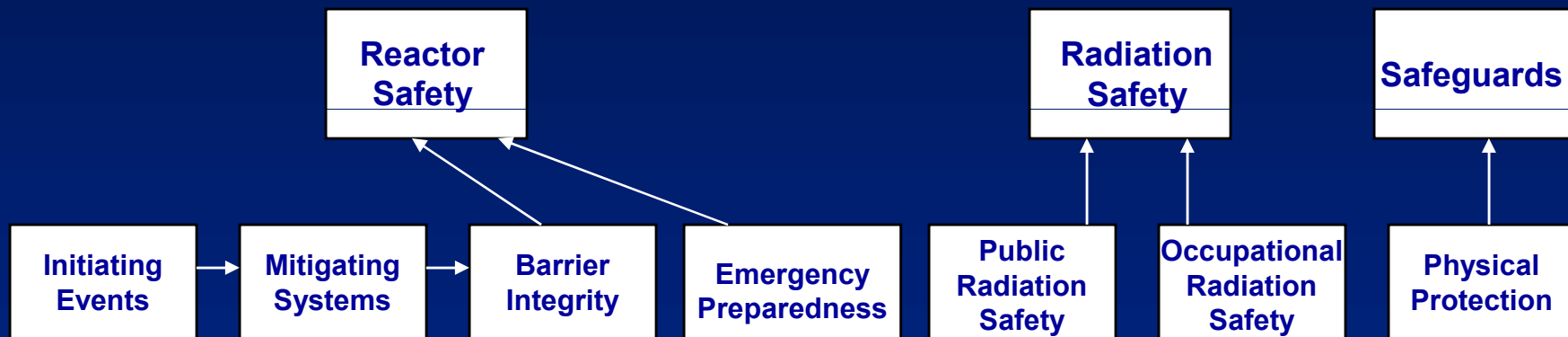


NRC Strategic Plan Goals

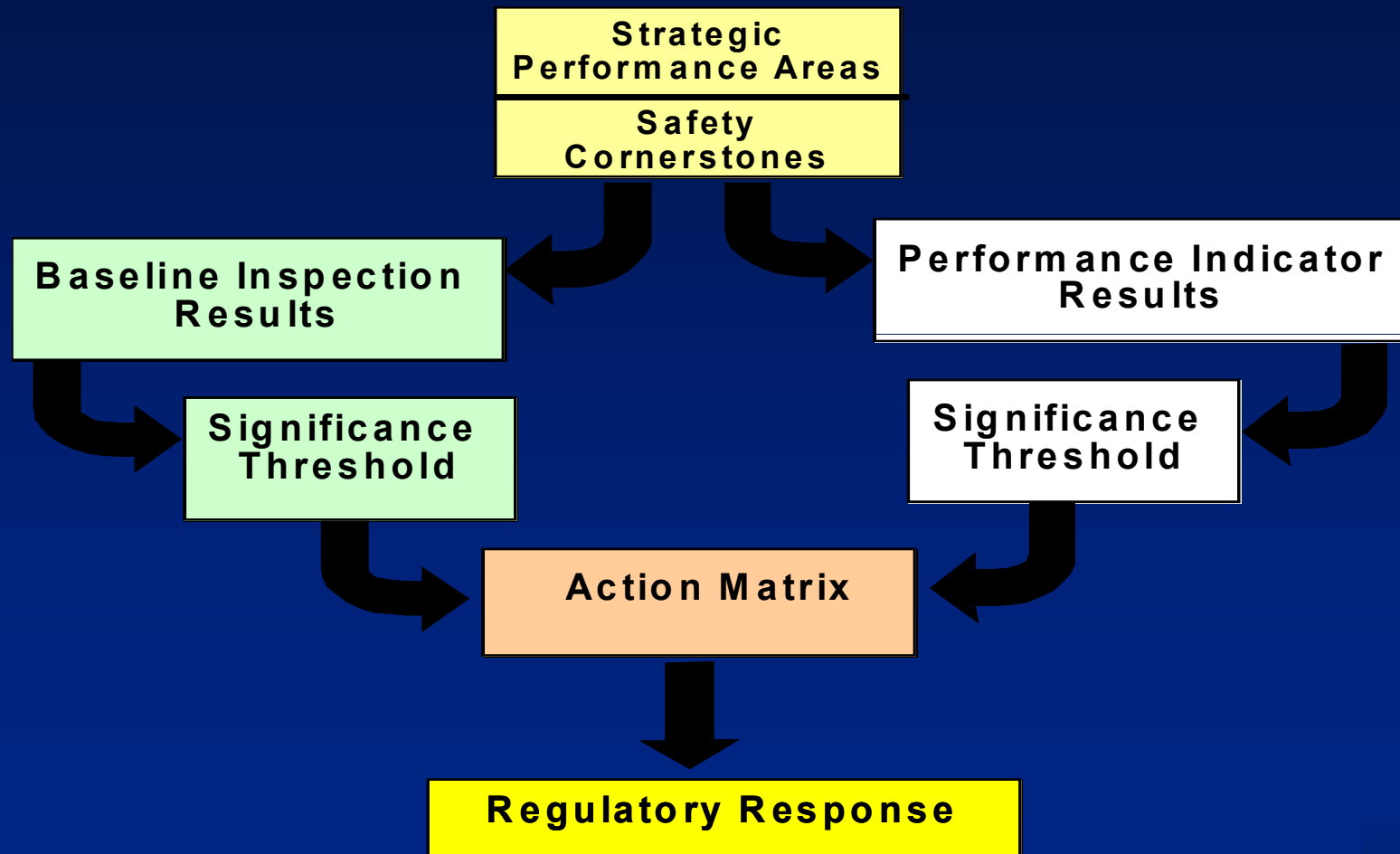
- **Safety**: Ensure adequate protection of public health and safety and the environment
- **Security**: Ensure adequate protection in the secure use and management of radioactive materials

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

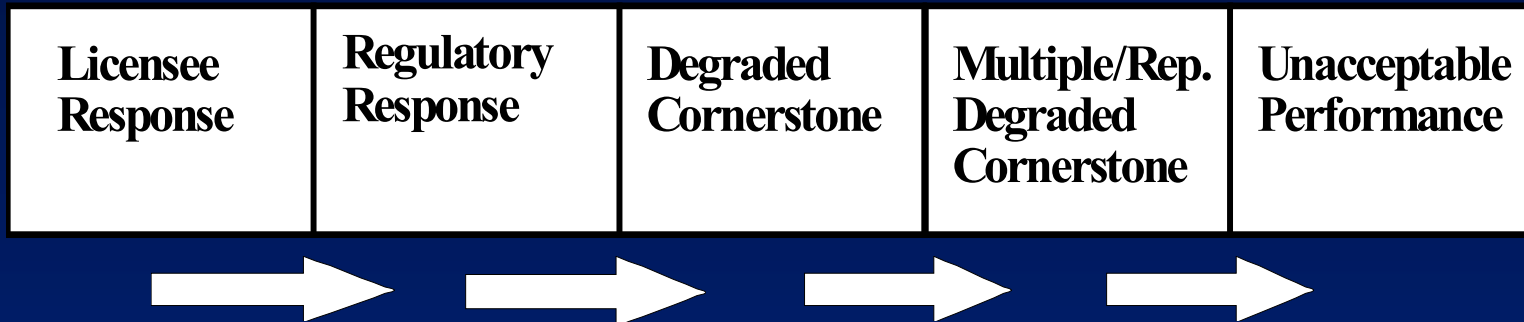
Performance Indicators

- **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**



National Summary of Plant Performance **(at end of 2008)**

Licensee Response	86
Regulatory Response	14
Degraded Cornerstone	3
Multiple/Repetitive Degraded Cornerstone	1
Unacceptable	0
<hr/>	
Total	104

National Summary of Plant Performance (at end of 2008)

Performance Indicator Results

➤ Green	1762
➤ White	6
➤ Yellow	0
➤ Red	0

Total Inspection Findings

➤ Green	776
➤ White	17
➤ Yellow	0
➤ Red	0



NRC Inspection Activities at Pilgrim (for 2008)

- **Over 5200 hours of inspection and related activities**
- **2 resident inspectors on-site**
- **23 regional inspections**
- **4 major team inspections:**
 - Component Design Basis Inspection**
 - Emergency Preparedness Evaluated Exercise**
 - Two Physical Security Team Inspections**



NRC Annual Assessment Summary **Pilgrim**

- **Entergy operated the plant safely and in a manner that preserved public health and safety and protected the environment**
- **Pilgrim was in the Licensee Response column of the NRC's Action Matrix for the last quarter of 2008**



Pilgrim PIs / Findings **(January 1 – December 31, 2008)**

- **All Green Performance Indicators**
- **14 Green inspection findings**

NRC Inspection Findings **Pilgrim**

- **Examples of Green Findings in 2008**
 - **2 Green findings related to inadequate risk assessment for emergent maintenance on risk significant equipment.**
 - **2 Green findings related inadequate corrective actions due to an improper evaluation of a condition adverse to quality.**
 - **1 Green finding related to an improperly revised Reactor Core Isolation Cooling System procedure.**



NRC Assessment of Pilgrim

- **The staff identified four inspection findings with a cross-cutting aspect of document and procedure adequacy.**
- **The staff determined that Entergy had recognized the cross-cutting theme and had taken or scheduled to take appropriate corrective actions.**
- **The NRC will monitor Entergy's progress in the area of procedure adequacy through the baseline inspection program.**



NRC Annual Assessment Summary **Pilgrim**

- **Pilgrim was in the Licensee Response column of the NRC's Action Matrix for 2008.**
- **All cornerstone objectives were fully met.**
- **NRC plans baseline inspections at Pilgrim for the remainder of 2009.**



Licensee Response and Remarks

Kevin Bronson

Pilgrim Site Vice President

Entergy Nuclear Operations, LLC

Contacting the NRC

- **Report a safety concern:**
 - (800) 695-7403
 - Allegation@nrc.gov
- **General information or questions:**
 - www.nrc.gov
 - **Select “News and Information” for a link to email Public Affairs**



NRC Representatives

- **David C. Lew, Division Director, DRP**
 - **610-337-5229**
- **James W. Clifford, Deputy Division Director, DRP**
 - **610-337-5080**
- **Mel Gray, Branch Chief**
 - **610-337-5209**
- **Max Schneider, Senior Resident Inspector**
 - **508-747-0565**
- **Brian Smith, Resident Inspector**
 - **508-747-0565**
- **Andrew Rosebrook, Senior Project Engineer**
 - **610-337-5199**

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

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End of the Presentation

Nuclear Regulatory Commission

Region I

King of Prussia, Pennsylvania

March 26, 2009