

U.S.NRC

UNITED STATES NUCLEAR REGULATORY COMMISSION

Protecting People and the Environment

Three Mile Island Annual Assessment Meeting

2008 Reactor Oversight Process

Nuclear Regulatory Commission – Region I



Purpose of Today's Meeting

- **Discuss TMI performance for 2008**
- **Provide Exelon the opportunity to respond to the NRC's annual performance assessment and to identify new or existing programs to maintain or improve performance**
- **Provide stakeholders the opportunity to engage the NRC staff on plant performance issues and our role in ensuring safe plant operations**

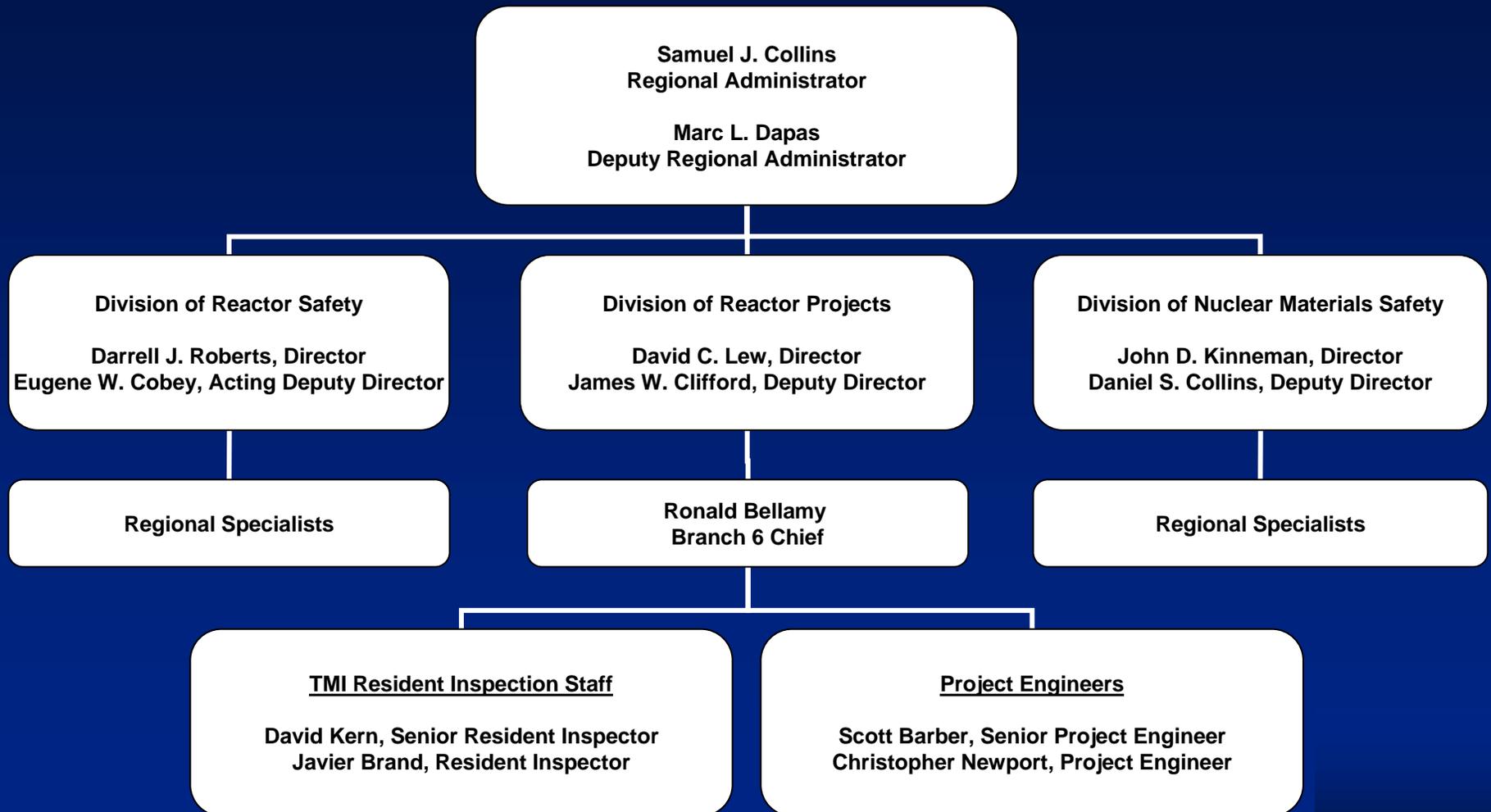


Agenda

- Introduction
- NRC Organization and Performance Goals
- Reactor Oversight Process (ROP)
- National Summary of Plant Performance
- TMI Plant Performance Assessment
- Exelon 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



NRC Regulatory Functions

What We Regulate

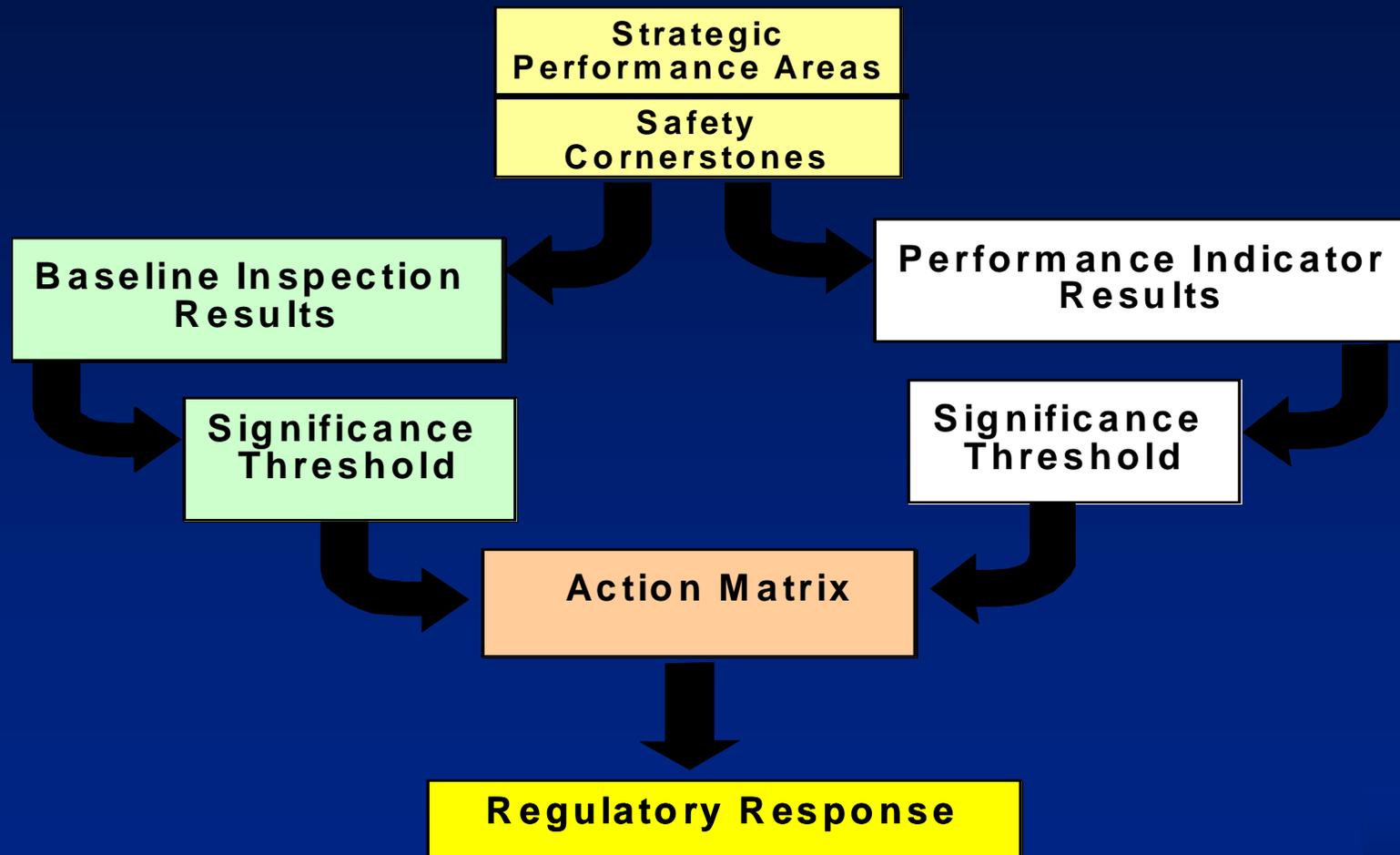
- **Nuclear Reactors**
 - Commercial power, research, test, and new reactor designs
- **Nuclear Material**
 - Reactor fuel, radioactive material for medical, industrial, and academic uses
- **Nuclear Waste**
 - Transportation, storage, disposal, and facility decommissioning
- **Nuclear Security**
 - Facility physical security

Reactor Oversight Process

3 Strategic Areas & 7 Cornerstones



Reactor Oversight Process





Baseline Inspection Areas

- **Maintenance Effectiveness**
- **Operability Evaluations**
- **Post-Maintenance Testing**
- **Refueling & Outage Activities**
- **Surveillance Testing**
- **Emergency Preparedness Assessment**



Baseline Inspection Areas

- **Occupational Radiation Safety**
- **Public Radiation Safety**
- **Performance Indicator Verification**
- **Fire Protection**
- **Identification & Resolution of Problems**
- **Follow-up of Events**



NRC Performance Indicators

- **Initiating Events PIs**
- **Mitigating Systems PIs**
- **Barrier Integrity PIs**
- **Emergency Planning PIs**
- **Radiation Protection PIs**
- **Security PIs are not Publicly Available**

Significance Threshold

Performance Indicators

- **Green** Baseline Inspection
- **White** Requires additional 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 **TMI (for 2008)**

- **5669 hours of inspection and related activities**
- **2 resident inspectors on-site**
- **10 regional inspections**
- **3 major team inspections:**

Problem Identification & Resolution: 03/31 – 04/04

Triennial Fire Protection: 08/25 – 09/12

License Renewal: 11/17 – 12/12



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

- **All Green Performance Indicators**
- **7 Green / Severity Level - IV inspection findings**

NRC Inspection Findings

TMI

- **Incomplete or Untimely Corrective Actions**
 - design calculations for EDG fuel capacity
 - staged equipment for loss of SW event
 - emergency lighting & use of elevators when combating a fire
- **Degraded Fire Barrier Seals Not Properly Inspected and Repaired**
- **Inservice Test Reference Conditions and Instrumentation Not Established**



NRC Annual Assessment Summary **TMI**

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



NRC Annual Assessment Summary **TMI**

- **NRC plans baseline inspections at TMI for the remainder of 2009**



Licensee Response and Remarks

Mr. William Noll

Site Vice President - Three Mile Island

Exelon Generation Company, LLC



Contacting the NRC

- **Report a safety concern:**
 - **(800) 695-7403**
 - **Allegation@nrc.gov**
- **General information or questions:**
 - **www.nrc.gov**
 - **Public Affairs Officers:**
 - **Diane Screnci 610-337-5330**
 - **Neil Sheehan 610-337-5331**



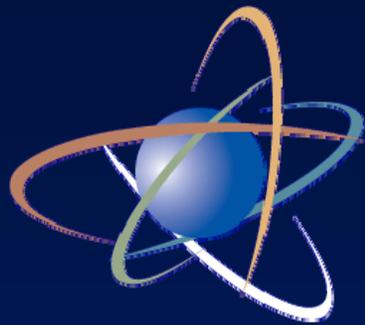
NRC Representatives

- **David C. Lew, Division Director, DRP**
 - 610-337-5229
- **James W. Clifford, Deputy Division Director, DRP**
 - 610-337-5080
- **Ronald Bellamy, Branch Chief**
 - 610-337-5200
- **David Kern, Senior Resident Inspector**
 - 717-948-1165
- **Javier Brand, Resident Inspector**
 - 717-948-1165
- **Scott Barber, Senior Project Engineer**
 - 610-337-5232



Reference Sources

- Reactor Oversight Process
- <http://www.nrc.gov/NRR/OVERSIGHT/ASS/ESS/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

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End of the Presentation

Nuclear Regulatory Commission

Region I

King of Prussia, Pennsylvania

April 2, 2009