



Millstone Annual Assessment Meeting

2008 Reactor Oversight Process

Nuclear Regulatory Commission – Region I



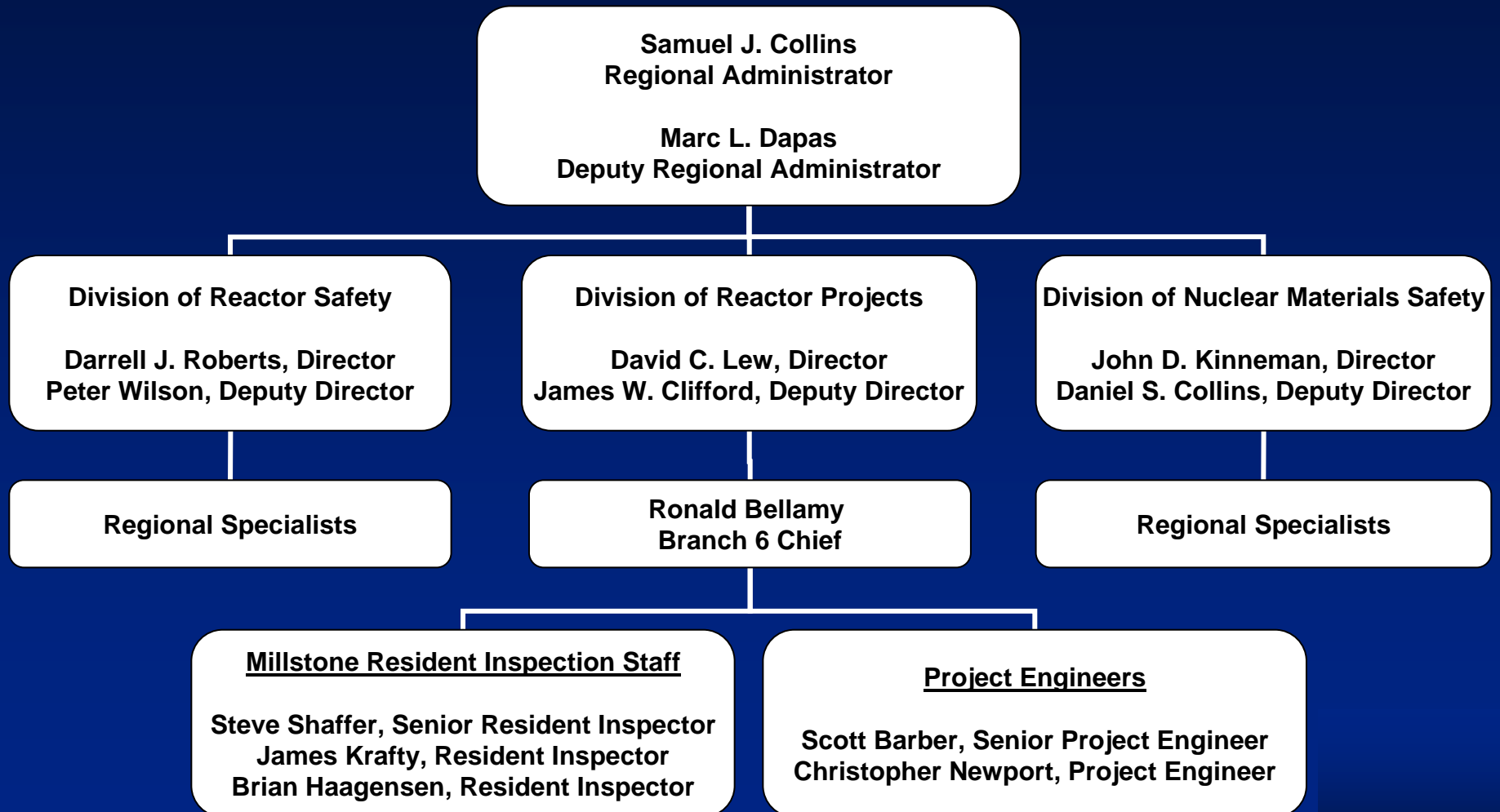
Purpose of Today's Meeting

- **Discuss Millstone performance for 2008**
- **Provide Dominion 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**
- **Millstone Plant Performance Assessment**
- **Dominion 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



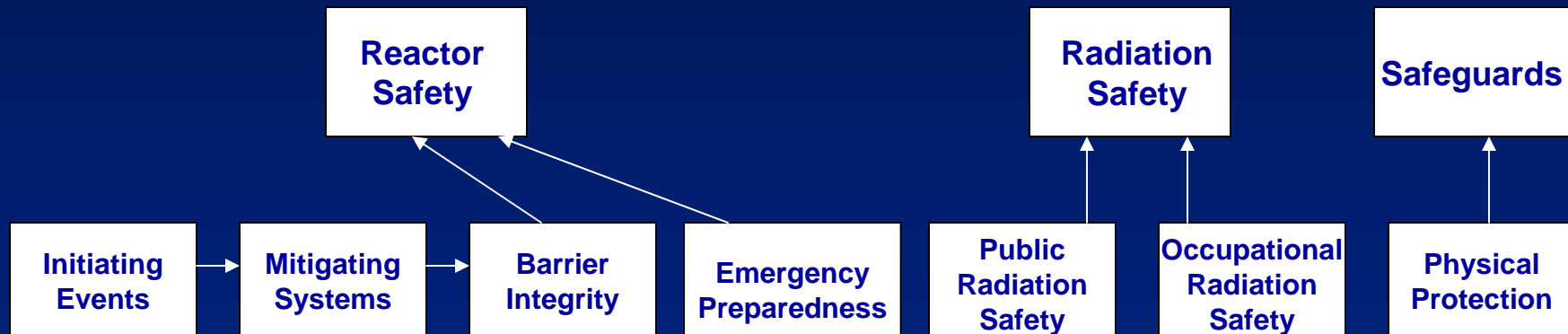
NRC Regulatory Functions

What We Regulate

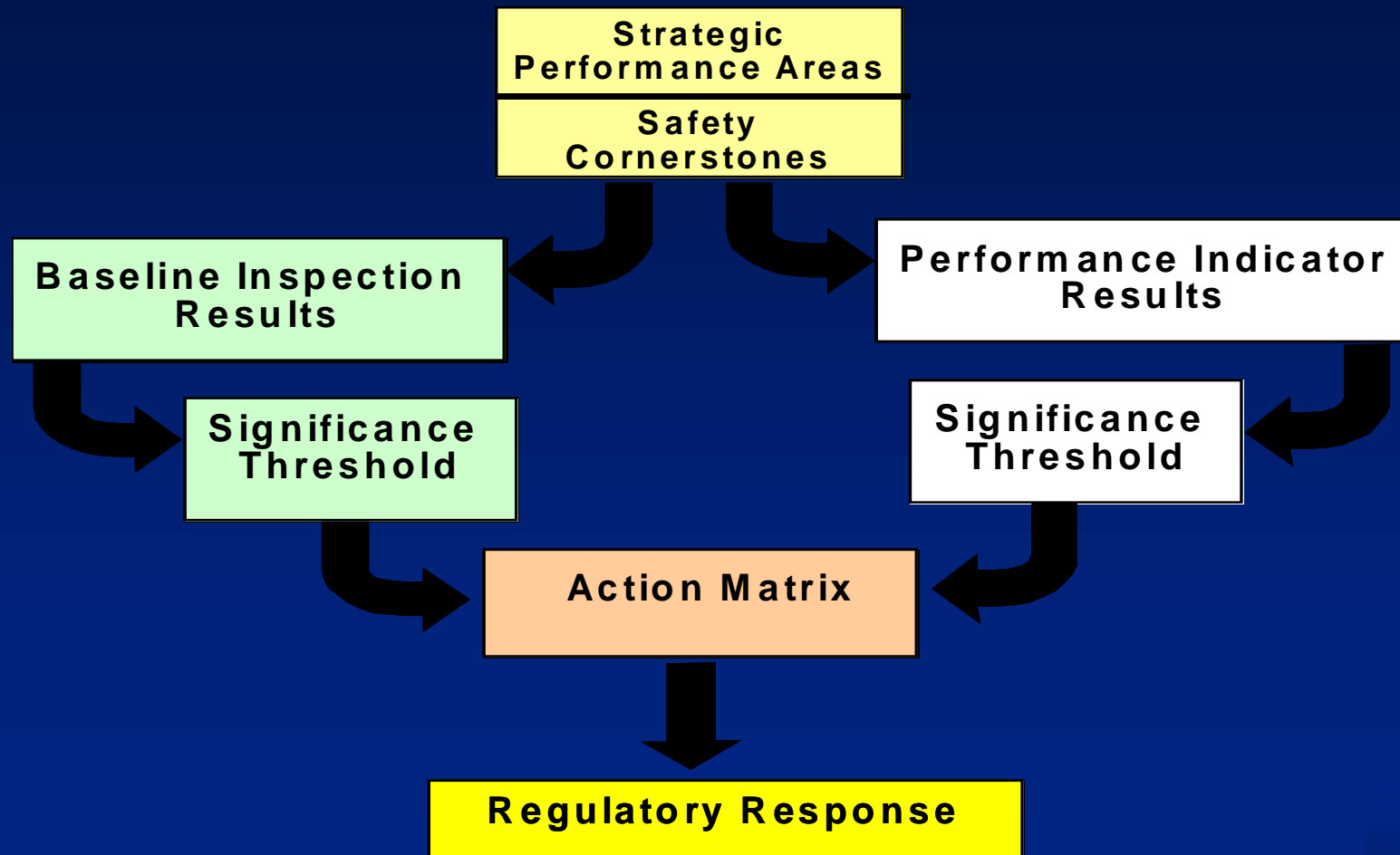
- **Nuclear Reactors**
 - Commercial power, research, test, and new reactor designs
- **Nuclear Material**
 - Reactor fuel, radioactive material for medical, industrial, and academic uses
- **Nuclear Waste**
 - Transportation, storage, disposal, and facility decommissioning
- **Nuclear Security**
 - 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 Millstone (for 2008)

- 7845 hours of inspection and related activities
- 3 resident inspectors on-site
- 19 regional inspections
- 4 major team inspections:

Emergency Preparedness Exercise: 03/17-03/20

U3 Air Void SIT: 12/15-02/06

Problem Identification & Resolution: 02/11-02/29

Triennial Fire Protection: 11/17 – 12/05



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

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



NRC Inspection Findings **Millstone**

- Green - Inadequate maintenance procedures result in Unusual Event being declared at Unit 2 because of reactor coolant system leakage exceeding technical specification limits.
- Green – Installation of the incorrect internal valve trim package in valve 2-HD-103A resulted in a Unit 2 reactor trip.
- Green – Failure to correct safety valve lifting following uncomplicated reactor trips from full power at Unit 2.



NRC Annual Assessment Summary **Millstone**

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



NRC Annual Assessment Summary **Millstone**

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



Licensee Response and Remarks

Mr. Skip Jordan
Site Vice President – Millstone Power Station
Dominion Nuclear Connecticut, Inc.



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

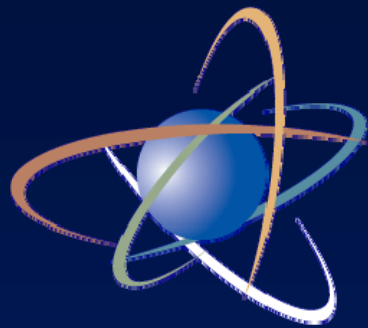


NRC Representatives

- **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
- **Steve Shaffer, Senior Resident Inspector**
 - 816-447-3170
- **James Krafty, Resident Inspector**
 - 816-447-3170
- **Brian Haagensen, Resident Inspector**
 - 816-447-3170
- **Scott Barber, Senior Project Engineer**
 - 610-337-5232

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

End of the Presentation

Nuclear Regulatory Commission

Region I

King of Prussia, Pennsylvania

April 23, 2009