



U.S. NRC

UNITED STATES NUCLEAR REGULATORY COMMISSION

Protecting People and the Environment

NRC Annual Performance Assessment of Vermont Yankee

2006 Reactor Oversight Process



Purpose of Today's Meeting

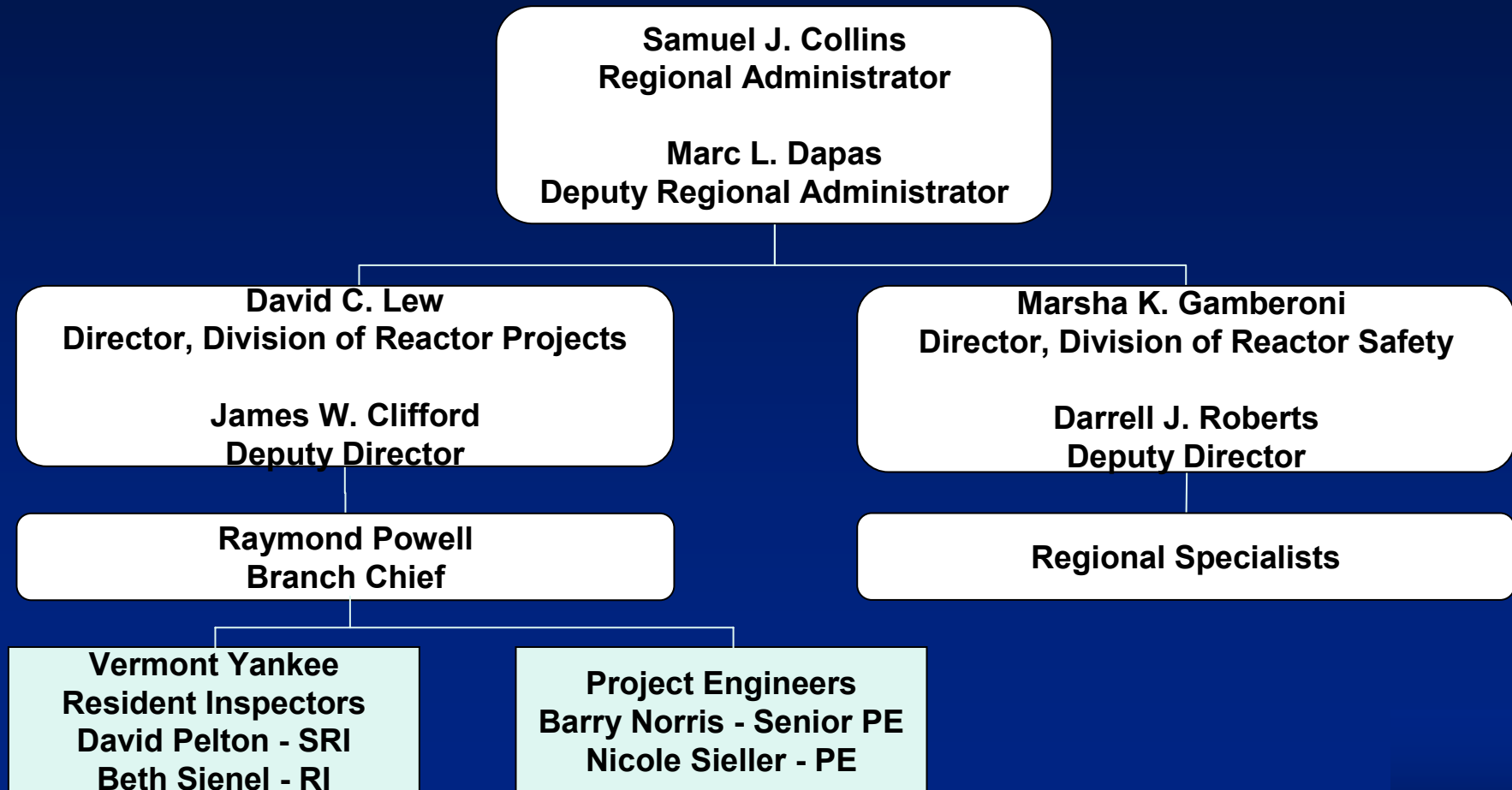
- **Discuss Vermont Yankee Plant Performance for CY 2006**
- **Provide Entergy management the opportunity to respond to the NRC's Annual Performance Assessment and to identify new or existing programs to continue to improve performance**
- **Provide stakeholders the opportunity to engage the NRC staff on plant performance issues and our role in ensuring safe plant operations**



Agenda

- **Introduction**
- **NRC organization and performance goals**
- **Reactor oversight process**
- **National summary of plant performance**
- **Vermont Yankee plant performance assessment**
- **Entergy management's response and remarks**
- **NRC closing remarks**
- **Break**
- **NRC available to address public questions**

Region I Organization



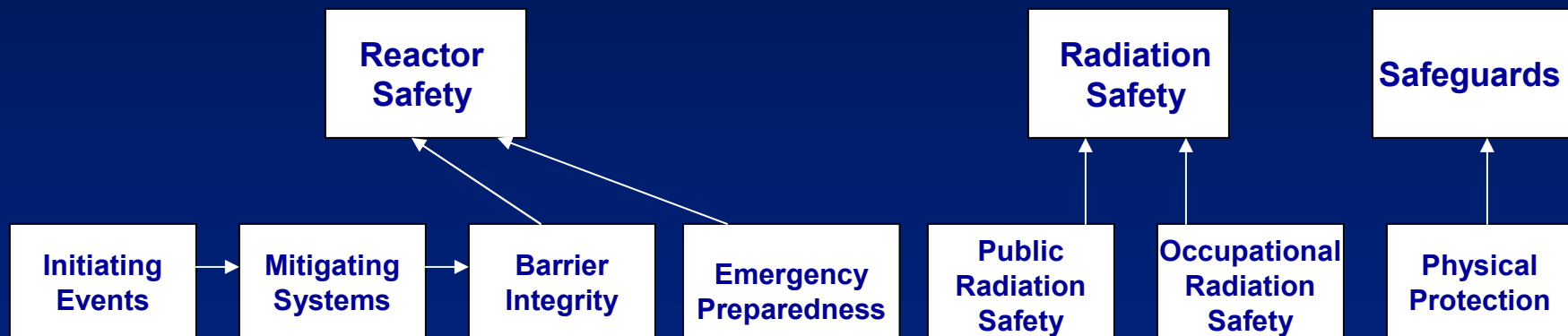


NRC Performance Goals

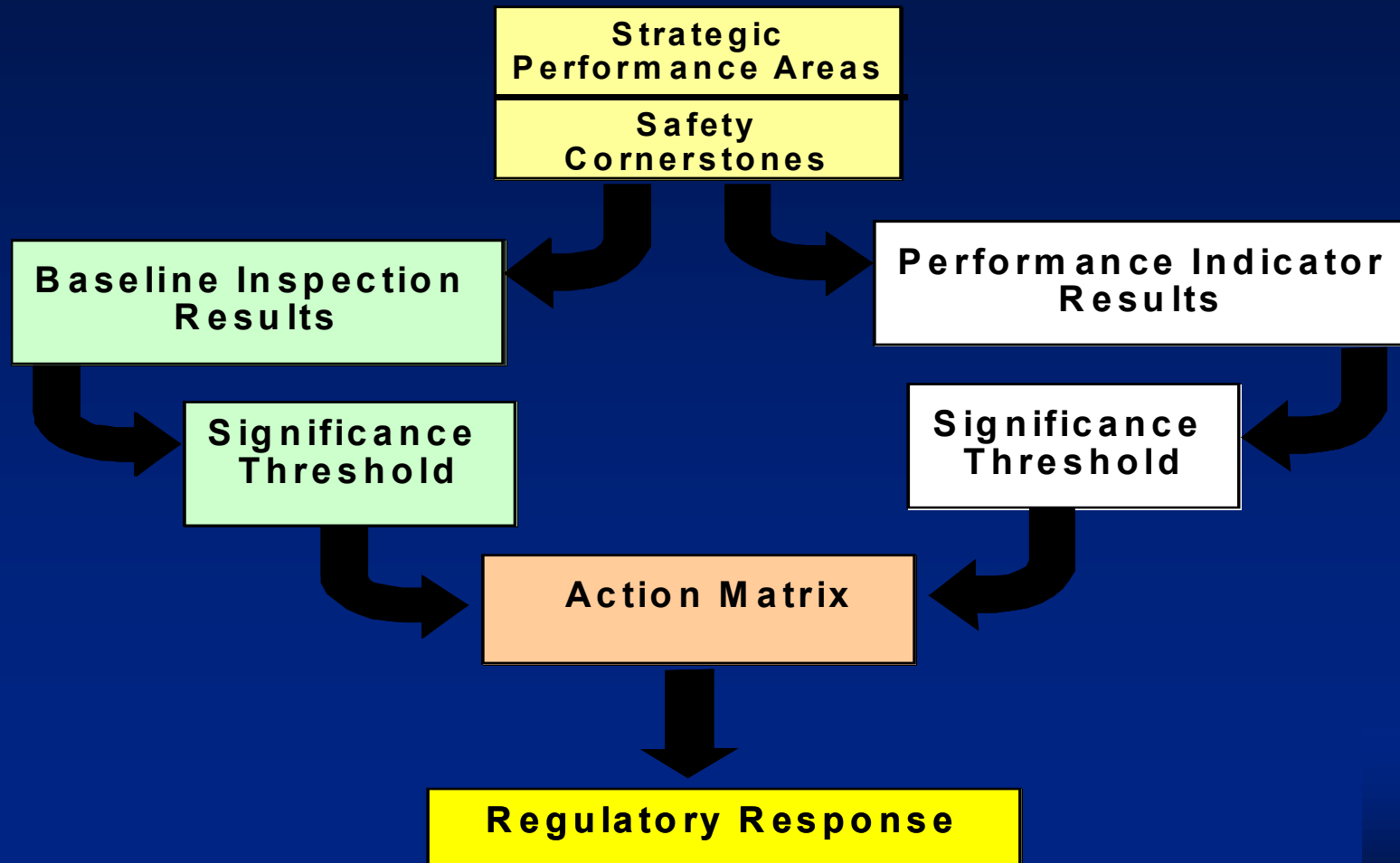
- **Safety**: Ensure protection of public health and safety and the environment
- **Security**: Ensure the secure use and management of radioactive materials
- **Openness**: Ensure openness in our regulatory process
- **Effectiveness**: Ensure NRC actions are effective, efficient, realistic, and timely
- **Management**: Ensure excellence in agency management to carry out NRC's strategic objective

Reactor Oversight Process

3 Strategic Areas & 7 Cornerstones



Reactor Oversight Process



Typical Baseline Inspection Areas

- **Equipment Alignment**
- **Maintenance**
- **Fire Protection**
- **Operator Response**
- **Emergency Preparedness**
- **Radiation Release Controls**
- **Worker Radiation Protection**
- **Corrective Action Program**
- **Corrective Action Case Reviews**

Significance Threshold

Performance Indicators

Green	Baseline Inspection
White	May increase NRC oversight
Yellow	Requires more NRC oversight
Red	Requires more 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

Status at End of 2006

Licensee Response	70
Regulatory Response	24
Degraded Cornerstone	6
Multiple/Repetitive Degraded Cornerstone	3
Unacceptable	0
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Total	103

National Summary

- **Performance Indicator Results (at end of 2006)**

▶ Green	1843
▶ White	11
▶ Yellow	0
▶ Red	0

- **Total Inspection Findings (2006)**

▶ Green	676
▶ White	13
▶ Yellow	0
▶ Red	0



NRC 2006 Inspection Activities **Vermont Yankee**

- **4887 hours of inspection and related activities**
- **2 resident inspectors on-site**
- **12 regional inspections**
- **3 major team inspections:**
 - Power Uprate**
 - Component Design Bases Inspection**
 - Licensed Operator Requalification Inspection**

NRC Performance Indicators and Inspection Findings

- **All performance indicators for Vermont Yankee for CY 2006 were Green**
- **There were 6 findings for Vermont Yankee in CY 2006 – 5 Green (very low safety significance) and 1 White (low to moderate safety significance)**

NRC Inspection Findings

- **White**, a failure to properly prepare and ship a package containing radioactive material in a manner that assured conformance with DOT radiation level limitations on the external surface of the package.
- **Green**, a failure to correct a previously identified condition that allowed the continued accumulation of dust on a grounding resistor bank. This dust accumulation contributed to the inadvertent initiation of the east switchgear room CO2 fire suppression system, declaration of an Unusual Event, and performance of a rapid power reduction.
- **Green**, a failure to incorporate operating experience into the preventive maintenance strategy for the reactor building closed cooling water system pump motor.
- **Green**, a failure to conduct surveillance tests to verify 10 CFR 50, Appendix R (Fire protection Program) components remained in an operable condition.
- **Green**, a failure to establish an adequate off-normal procedure to address degraded service water system flow conditions.
- **Green**, a failure to correct a condition that caused flow oscillations in both the high pressure coolant injection system and the reactor core isolation cooling system.



NRC Annual Assessment Summary **Vermont Yankee**

- **Entergy operated the plant safely and in a manner that preserved public health and safety and protected the environment**
- **Vermont Yankee plant performance was in the Licensee Response column of the NRC's Action Matrix for the first 3 quarters of 2006, and moved to the Regulatory Response column in the 4th quarter of 2006 due to a White finding**
- **All cornerstone objectives were fully met**
- **NRC plans baseline inspections and one supplemental inspection at Vermont Yankee for CY2007**



Licensee Response and Remarks

Mr. Theodore Sullivan
Site Vice President—Vermont Yankee
Energy 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



NRC Representatives

- **James W. Clifford, Deputy Division Director, DRP**
 - (610) 337-5080
- **Raymond Powell, Branch Chief**
 - (610) 337-6967
- **David Pelton, Senior Resident Inspector**
 - (802) 257-4319
- **Beth SieneI, Resident Inspector**
 - (802) 257-4319

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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End of the Presentation

Nuclear Regulatory Commission – Region I

King of Prussia, Pennsylvania

May 14, 2007