



# **NRC Reactor Oversight Program Annual Assessment Meeting**

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## **Seabrook Power Station**

Nuclear Regulatory Commission - Region I  
King of Prussia, PA

# Agenda

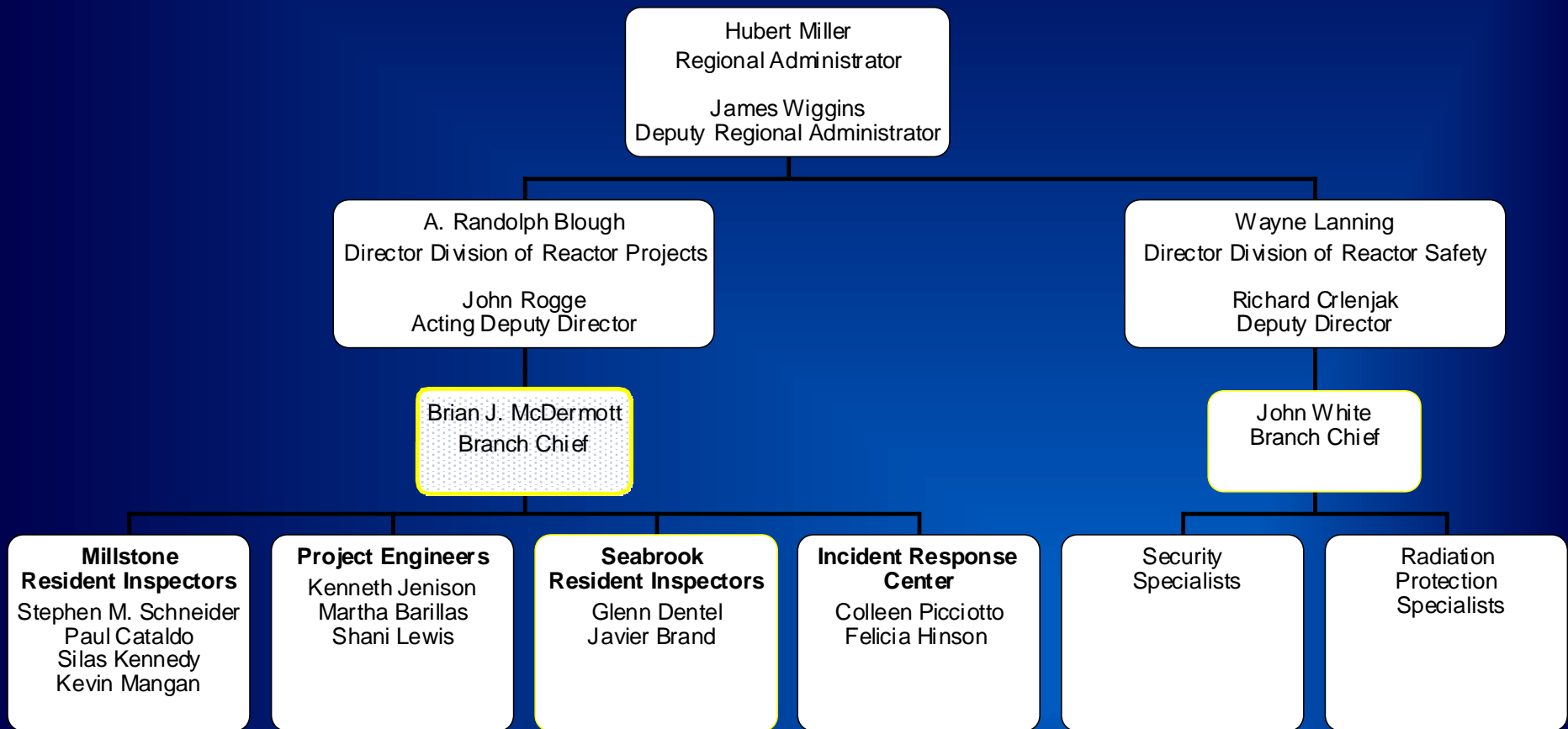
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## **Business**

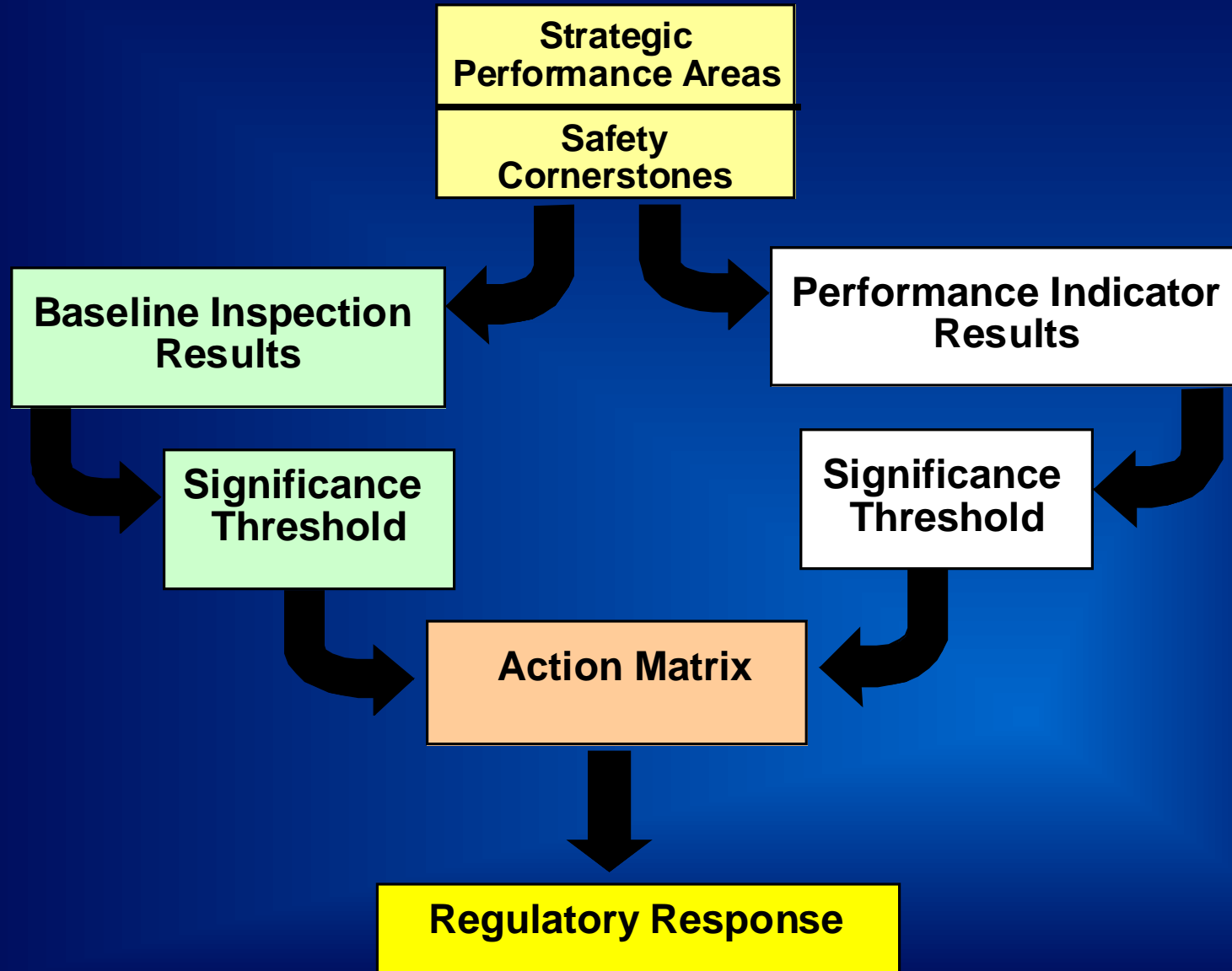
- ▶ Introduction
- ▶ Review of Reactor Oversight Process
- ▶ National Results
- ▶ Seabrook Results
- ▶ NRC Security Update
- ▶ Licensee Response and Remarks

## **Public Comments and Questions**

# Region I Organization



# Reactor Oversight Process



# Examples of Baseline Inspections

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- Equipment Alignment ~90 hrs/yr
- Triennial Fire Protection ~200 hrs every 3 yrs
- Operator Response ~125 hrs/yr
- Emergency Preparedness ~80 hrs/yr
- Rad Release Controls ~100 hrs every 2 yrs
- Worker Radiation Protection ~100 hrs/yr
- Corrective Action Program ~250 hrs every 2 yrs
- Corrective Action Case Reviews ~60 hrs/yr

# Examples of Performance Indicators

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- Scrams with Loss of Normal Heat Removal
- Unplanned Power Changes
- Emergency AC Power System Safety System Unavailability
- Alert and Notification System Reliability

# Significance Threshold

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## Performance Indicators

- Green:** Baseline Inspections
- White:** May increase NRC oversight
- Yellow:** Requires more NRC oversight
- Red:** Requires more NRC oversight

## Inspection Findings

- Green:** Very low safety significant issue
- White:** Low to moderate safety significant issue
- Yellow:** Substantial safety significant issue
- Red:** High safety significant issue

# Action Matrix Concept

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<b>Licensee Response</b>	<b>Regulatory Response</b>	<b>Degraded Cornerstone</b>	<b>Multiple/Rep. Degraded Cornerstone</b>	<b>Unacceptable Performance</b>
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Increasing Safety Significance

Increasing NRC Inspection Efforts

Increasing NRC/Licensee Management Involvement

Increasing Regulatory Actions



# National Summary of Plant Performance

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## Status at End of 2002

Licensee Response	75
Regulatory Response	24
Degraded Cornerstone	2
Multiple/Repetitive Degraded Cornerstone	1
Unacceptable	0
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Total Plants*	102

\*Davis Besse is in IMC 0350 process

# National Summary

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- Performance Indicator Results (at end of 2002)
  - ▶ **Green** 1835
  - ▶ **White** 5
  - ▶ **Yellow** 0
  - ▶ **Red** 0
  
- Total Inspection Findings (2002)
  - ▶ **Green** 783
  - ▶ **White** 30
  - ▶ **Yellow** 1
  - ▶ **Red** 2

# Seabrook Assessment Results

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January 1 - December 31, 2002

- Operated safely
- Met all cornerstone objectives
- “Licensee Response Column” on Action Matrix
- NRC will conduct baseline inspections in 2003

# Seabrook Assessment Results (continued)

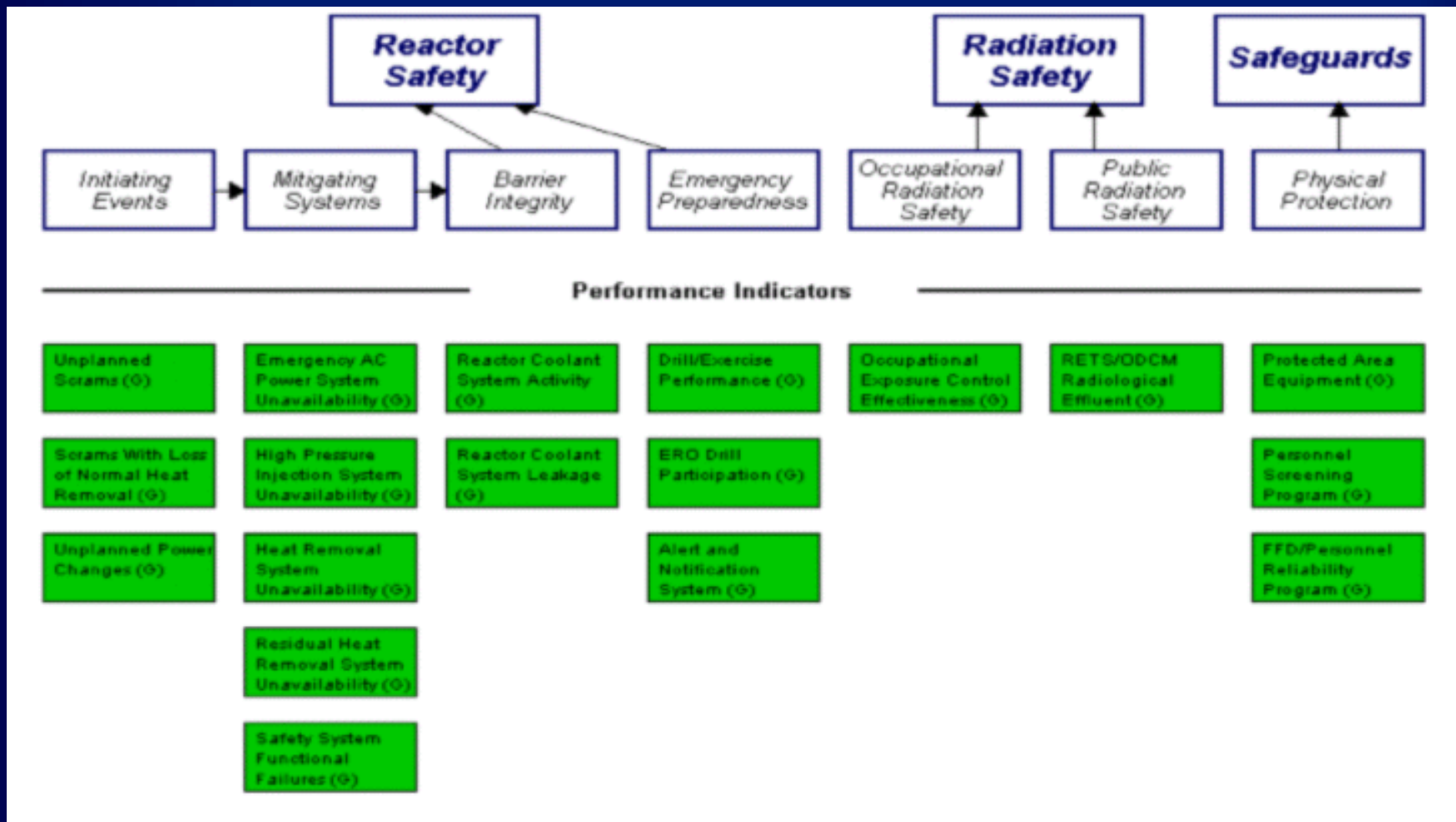
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## Cross-Cutting Issues

- NRC removed the substantial cross-cutting issue designation for Problem Identification & Resolution
  - ▶ Confirmed progress through resident and team inspections
  - ▶ Demonstrated improvement by a decrease in significance and number of findings

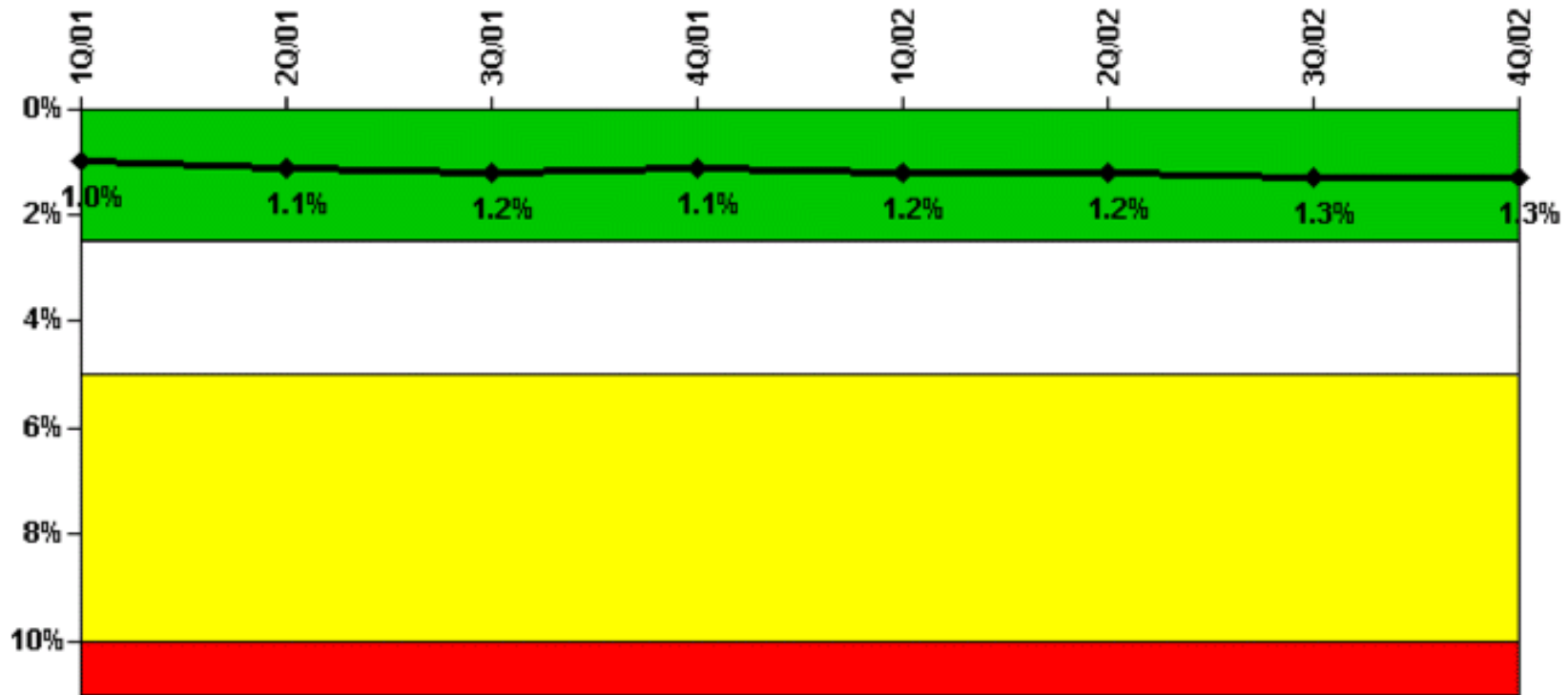
# Seabrook - Performance Indicators

[www.nrc.gov/NRR/OVERSIGHT/ASSESS/SEAB1/seab1\\_chart.html#pi\\_section](http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/SEAB1/seab1_chart.html#pi_section)



# Performance Indicator

Safety System Unavailability, Emergency AC Power



Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

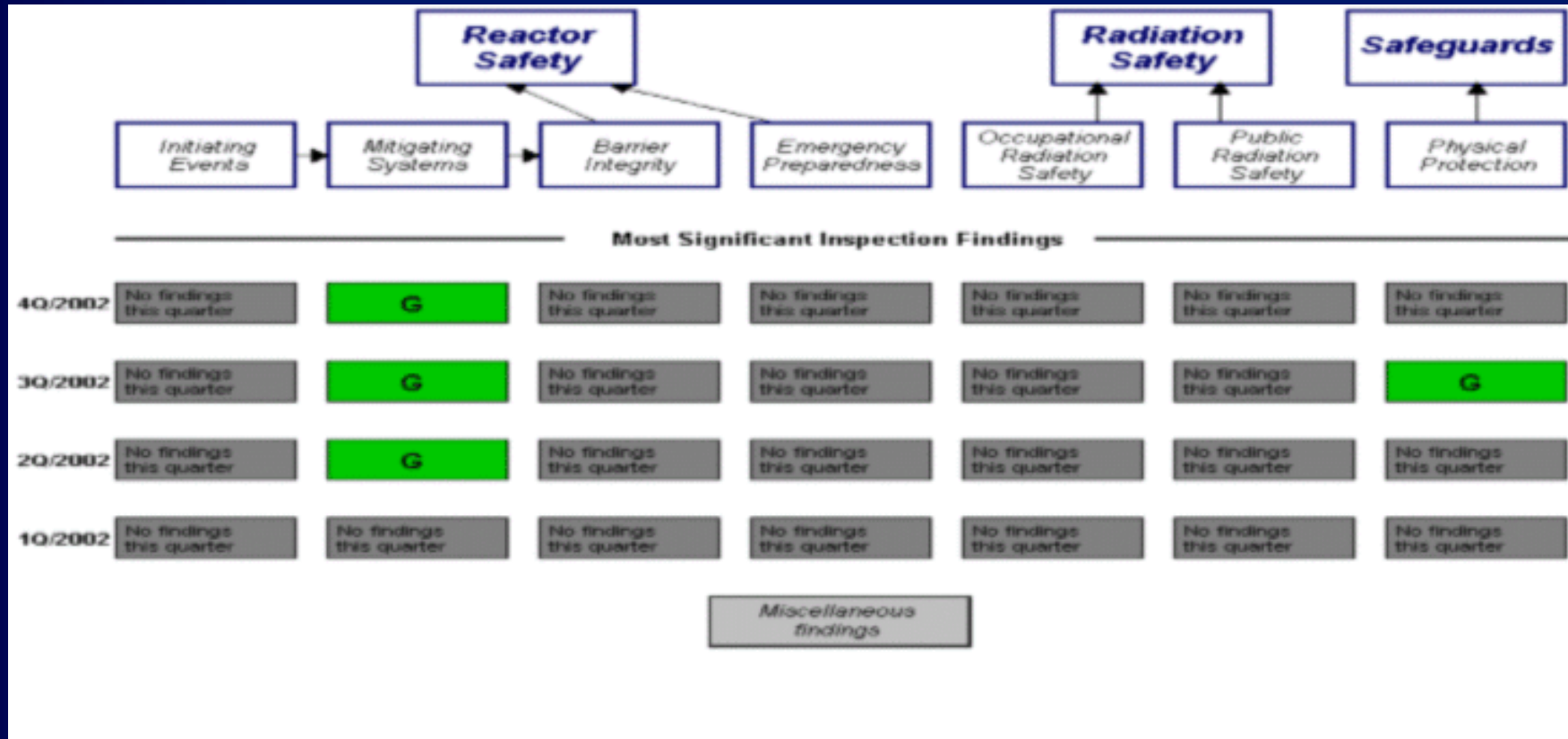
# Seabrook Inspection Activities

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January 1 - December 31, 2002

- 5500 hours of inspection related activities
- 2 resident inspectors on-site
- 17 regional inspector visits
- 5 team inspections
  - ▶ Permanent Plant Modifications
  - ▶ Fire Protection
  - ▶ Special Inspection Team
  - ▶ Problem Identification & Resolution
  - ▶ Emergency Preparedness Exercise

# Seabrook - Inspection Results





# Inspection Findings

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January 1 - December 31, 2002

- 7 inspection findings of very low safety significance (**Green**)
- 4 of the 7 inspection findings related to the Emergency Diesel Generators (EDGs)
- EDGs provide backup power to emergency equipment

# NRC Security Program Update

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- Interim Compensatory Measures (February 2002)
  - ▶ Required by NRC “Order”
  - ▶ Increased Patrols
  - ▶ Augmented Security Capabilities
  - ▶ Added Barriers and Posts
  - ▶ Enhanced Personnel Screening for Access
- Office of Nuclear Security and Incident Response (April 2002)
- Threat Advisory and Protective Measure System (August 2002)
  - ▶ Five threat levels corresponding to the Homeland Security Advisory System

## **NRC Security Program Update** (continued)

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- Access Authorization Order (January 2003)
- Force-on-Force Exercises (February 2003)
- Revised Design Basis Threat (TBD)
- Training Order (TBD)
- Fatigue Order (TBD)

# NRC Representatives

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- Brian McDermott, Chief, Projects Branch 6 & Incident Response, Region I (610) 337-5233
- John White, Chief, Radiation Safety & Safeguards, Region I (610) 337-5114
- Victor Nerses, Project Manager, Office of Nuclear Reactor Regulation (301) 415-1484
- Glenn Dentel, Senior Resident Inspector, Seabrook Resident Office (603) 474-3589
- Javier Brand, Resident Inspector, Seabrook Resident Office (603) 474-3580
- Neil Sheehan, Public Affairs Officer, Region I (610) 337-5331

# Reference Sources

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- Reactor Oversight Process
  - ▶ <http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/index.html>
- Public Electronic Reading Room
  - ▶ <http://www.nrc.gov/reading-rm/adams.html>
- Public Document Room
  - ▶ 1-800-397-4209 (Toll Free)

**End of Presentation**