

# NRC Annual Performance Assessment of Millstone

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2006 Reactor Oversight Program



# Purpose of Today's Meeting

- NRC will address Millstone's performance as described in the annual assessment letter
- Millstone will be given the opportunity to respond to the information in the letter and inform the NRC of new or existing programs to maintain or improve their performance
- NRC will be available to engage interested stakeholders on performance of the plant and our role in ensuring safe plant operations

# Agenda

- Introduction and NRC Organization
- Review of NRC Reactor Oversight Process
- Regulatory Summary of National Plant Performance
- NRC Assessment of Millstone's Performance
- Millstone Response and Remarks
- NRC Closing Remarks
- Break
- NRC available to address public questions

# Region I Organization

Samuel J. Collins  
Regional Administrator

Marc L. Dapas  
Deputy Regional Administrator

David C. Lew  
Director Division of Reactor Projects

James W. Clifford  
Deputy Director

A. Randolph Blough  
Director Division of Reactor Safety

Marsha K. Gamberoni  
Deputy Director

Paul G. Krohn  
Branch Chief

Regional Specialists

Millstone  
Resident Inspectors  
Max Schneider  
Jamie Benjamin  
Ricardo Fernandes

Senior Project Engineer  
Barry Norris  
Project Engineer  
Eugene Huang

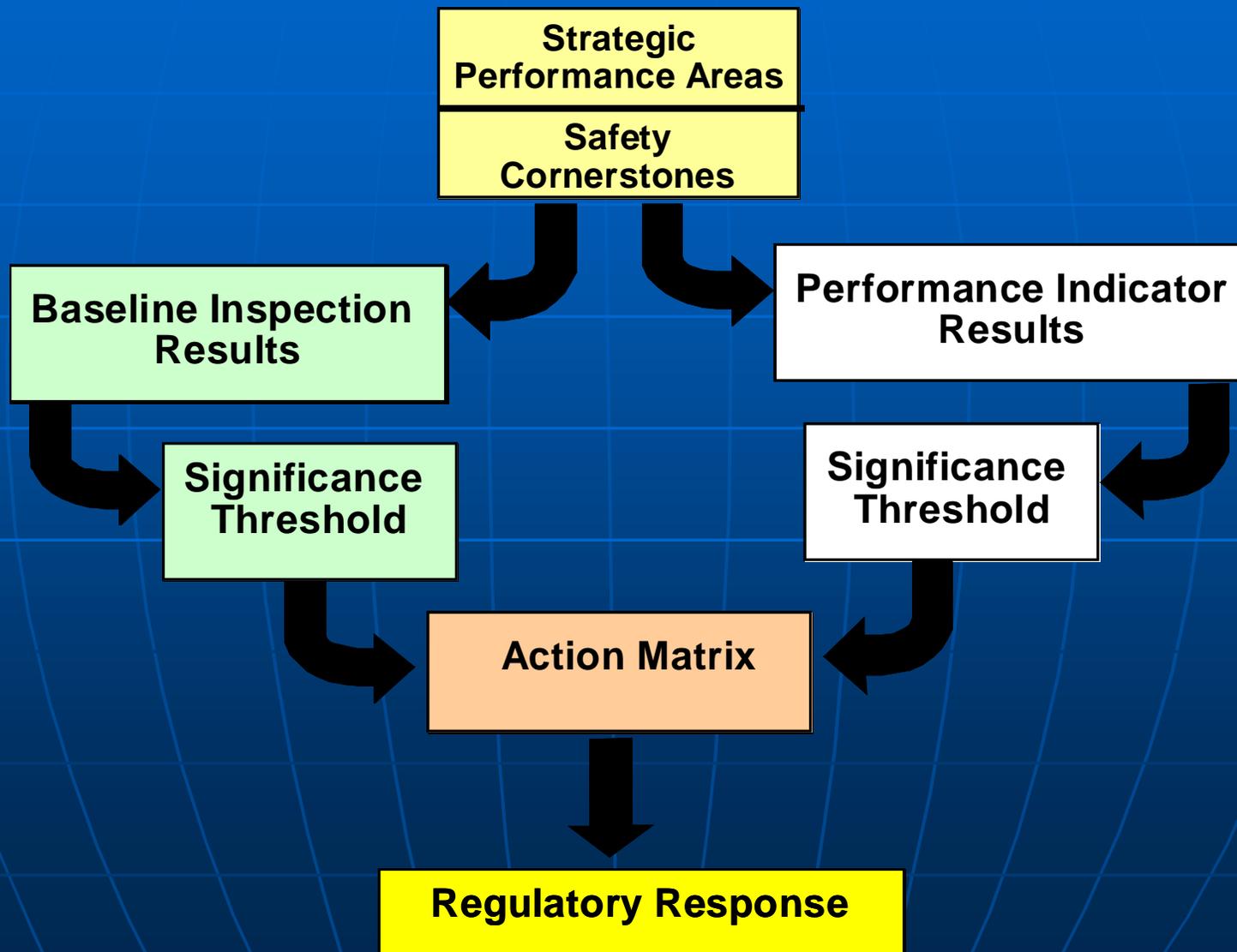
# NRC Representatives

- Jim Clifford, Deputy Division Director, DRP  
- (610) 337-5080
- Paul Krohn, Branch Chief  
- (610) 337-5120
- Max Schneider, Senior Resident Inspector  
Jamie Benjamin, Resident Inspector  
Ricardo Fernandes, Resident Inspector  
- (860) 447-3170
- Eugene Huang, Project Engineer  
- (610) 337-5322

# NRC Performance Goals

- Safety: Ensure protection of the 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 that NRC actions are effective, efficient, realistic, and timely
- Management: Ensure excellence in agency management to carry out NRC strategic objectives

# Reactor Oversight Process



# Typical Baseline Inspection Areas

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

# Significance Threshold

## Performance Indicators

- Green:** Only 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**

# Regulatory Summary of National 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

## Millstone

- Hours of inspection and assessment related activities
  - 5720 hours at Millstone Unit 2
  - 3431 hours at Millstone Unit 3
- Three resident inspectors assigned to the site
  - Ricardo Fernandes started at Millstone in Nov. 2006
- Other Inspections
  - 13 Regional inspections
  - 6 Team inspections

# NRC Major Inspection Activities Millstone

- Daily Resident Inspections
- Problem Identification and Resolution team inspection
- Component Design Basis team inspection
- Unit 2 Unplanned Scrams with Loss of Normal Heat Removal supplemental inspection
- Unit 2 Pressurizer Replacement team inspection
- Emergency Preparedness Exercise team inspection
- Unit 2 Refueling Outage

# NRC 2006 Assessment Results

## Millstone

- Licensee Response Column for Unit 2 and Unit 3 at the end of 2006
- Unit 2 had a White Performance Indicator for the first three quarters.
  - Unplanned Scrams with Loss of Normal Heat Removal
  - NRC completed Supplemental Inspection (September 2006)
  - PI returned to Green in 4<sup>th</sup> Quarter

# NRC 2006 Inspection Results

## Millstone

- Inspection Findings
  - 8 Findings of very low safety significance (Green) at Unit 2
  - 8 Findings of very low safety significance (Green) at Unit 3
  - 1 Finding of very low safety significance (Green) common to both units

# NRC 2006 Inspection Results

## Millstone

### Common Theme Evaluation

- Identified five findings with a common theme in the area of problem identification and resolution (specifically, quality of operability determinations).
- Reviewed Millstone's corrective actions.
- Concluded that Millstone's actions are acceptable in scope, timeliness, and effectiveness to address these issues.
- As a result, no substantive cross-cutting issue was identified.

# NRC Annual Assessment Summary

## Millstone

- Dominion operated Millstone Units 2 & 3 in a manner that preserved public health and safety
- All Reactor Oversight Process cornerstone objectives were met
- NRC plans baseline inspections at Millstone for the 2007 assessment period

# **Millstone Response and Remarks**

**Alan Price**

**Site Vice President**

**Dominion Nuclear Connecticut, 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](http://www.nrc.gov)
  - ▶ Select “What We Do” for Public Affairs
- Paul Krohn, Branch Chief
  - ▶ pgk1@nrc.gov

# 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)

# END OF THE PRESENTATION



Nuclear Regulatory Commission - Region I  
King of Prussia, Pennsylvania  
March 22, 2007