



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

May 21, 2010

**MEETING SUMMARY**

**LICENSEE:** DOMINION NUCLEAR CONNECTICUT, INC.  
**FACILITY:** MILLSTONE POWER STATION  
**SUBJECT:** SUMMARY OF APRIL 22, 2010, MEETING WITH THE CONNECTICUT  
NUCLEAR ENERGY ADVISORY COUNCIL (NEAC)

On April 22, 2010, at 6:00 p.m., a meeting was conducted at the Waterford Town Hall, Waterford, CT, between the Nuclear Regulatory Commission (NRC) and NEAC to discuss the implementation of the Reactor Oversight Process and to answer questions regarding the Millstone Nuclear Power Plant performance for calendar year 2009.

The NRC presented and discussed its assessment of the safety performance of Millstone for the period from January 1 through December 31, 2009. The NRC presentation included a discussion of the Reactor Oversight Process and the NRC's 2009 Millstone performance assessment results. As part of the meeting, the NRC provided NEAC with an overall assessment of plant performance and with specific information concerning selected inspection findings.

The public observed the meeting and was offered the opportunity to communicate with the NRC regarding Dominion's performance at Millstone and the role of the agency in ensuring safe plant operations.

The NRC's assessment letter can be found in ADAMS with an Accession Number of ML100621420. The meeting notice, with the attached agenda, can be found in ADAMS with Accession Number ML100880398. The Enclosures provide a list of individuals that attended the meeting as well as the slides used during the presentation. ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

Sincerely,

A handwritten signature in black ink, appearing to read "Donald Jackson", is written over a horizontal line.

Donald Jackson, Chief  
Projects Branch 5  
Division of Reactor Projects

**Enclosures:**

1. Meeting Attendees
2. NRC Slides

## MEETING SUMMARY

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Sincerely,  
/RA/  
Donald Jackson, Chief  
Projects Branch 5  
Division of Reactor Projects

### Enclosures:

1. Meeting Attendees
2. NRC Slides

SUNSI Review Complete: JH (Reviewer's Initials)

ML101410159

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Meeting Summaries\Millstone NEAC Meeting Summary.doc

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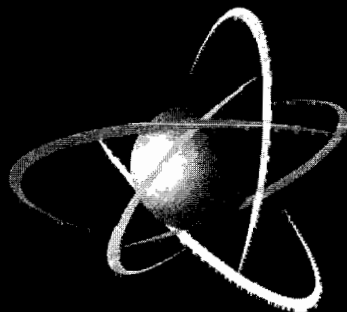
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D. Dodson, DRP  
S. Rich, DRP  
S. Shaffer, DRP  
B. Haagensen, DRP  
J. Krafty, DRP,  
C. Kowalyshyn, OA

**Enclosure 1**

**Meeting Attendees**

<u>Name</u>	<u>Organization</u>
Don Jackson	Nuclear Regulatory Commission (NRC)
Steve Shaffer	Nuclear Regulatory Commission (NRC)
Jim Krafty	Nuclear Regulatory Commission (NRC)
Justin Heinly	Nuclear Regulatory Commission (NRC)
Doug Dodson	Nuclear Regulatory Commission (NRC)
Carleen Sanders	Nuclear Regulatory Commission (NRC)
Josh Miller	Nuclear Regulatory Commission (NRC)
Bill Sheehan	Nuclear Energy Advisory Council (NEAC)
John Markowicz	Nuclear Energy Advisory Council (NEAC)
Gregg Dixon	Nuclear Energy Advisory Council (NEAC)
Pearl Rathbun	Nuclear Energy Advisory Council (NEAC)
Kevin Ryan	Nuclear Energy Advisory Council (NEAC)
Denny Hicks	Nuclear Energy Advisory Council (NEAC)
Robert Klancko	Nuclear Energy Advisory Council (NEAC)
James Sherrard	Nuclear Energy Advisory Council (NEAC)
Tom Nebel	Nuclear Energy Advisory Council (NEAC)



**U.S.NRC**

UNITED STATES NUCLEAR REGULATORY COMMISSION

*Protecting People and the Environment*

**NRC & NEAC Meeting  
Millstone  
Annual Assessment**

**2009 Reactor Oversight Process**

**Nuclear Regulatory Commission – Region I**



## **Purpose of Today's Meeting**

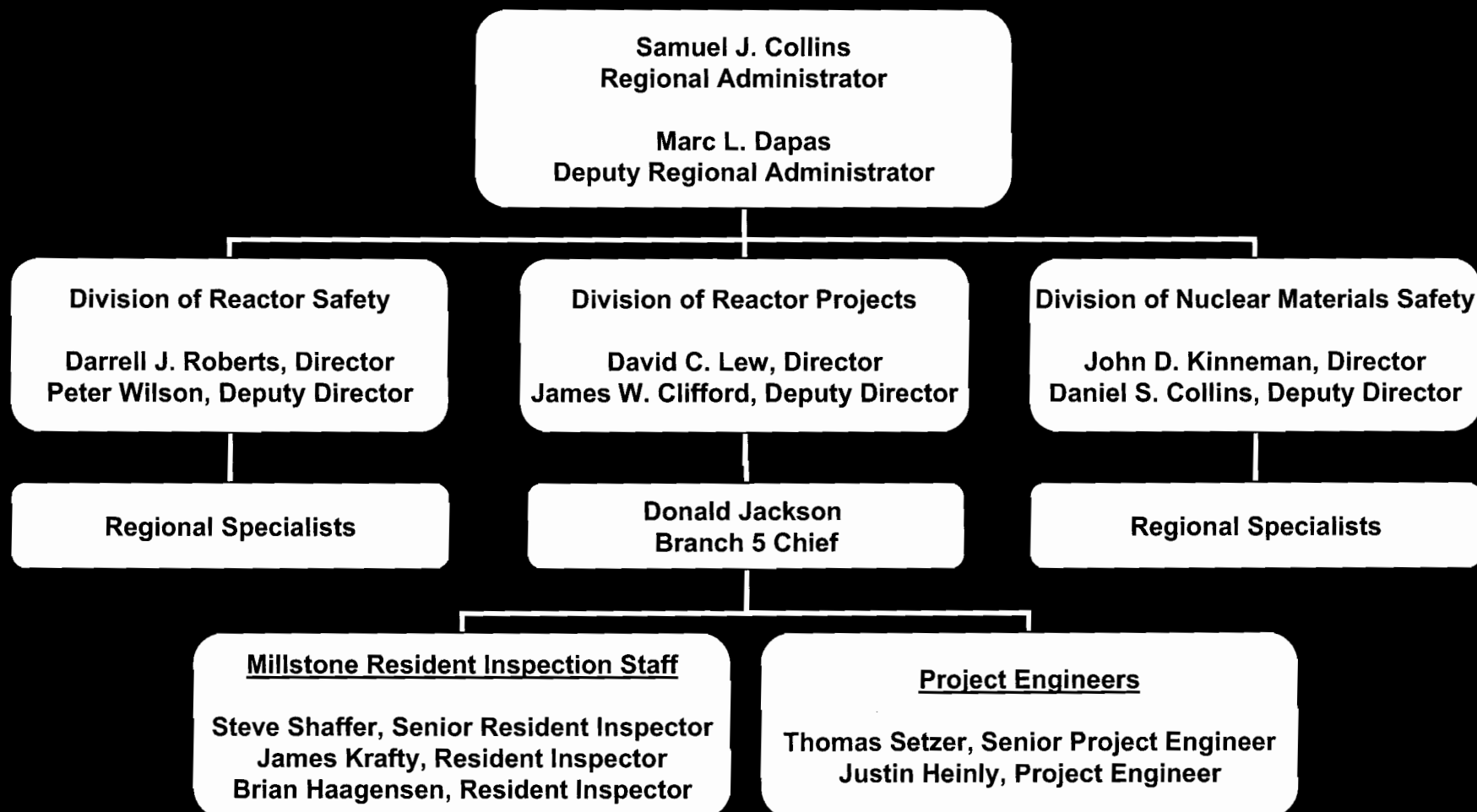
- **Discuss Millstone performance for 2009**
- **NRC will address Millstone's performance as discussed in NRC's Annual Assessment Letter to Dominion Nuclear Connecticut, Inc.**
- **NEAC will be given the opportunity to respond to the information, request clarifications, and ask additional questions, as needed**

## Agenda

- **Introduction**
- **NRC Organization and Performance Goals**
- **Reactor Oversight Process (ROP)**
- **National Summary of Plant Performance**
- **Millstone Plant Performance Assessment**
- **NEAC Response and Remarks**
- **NRC and NEAC Closing Remarks**
- **Break**
- **NRC available to address public questions**



# Region I Organization





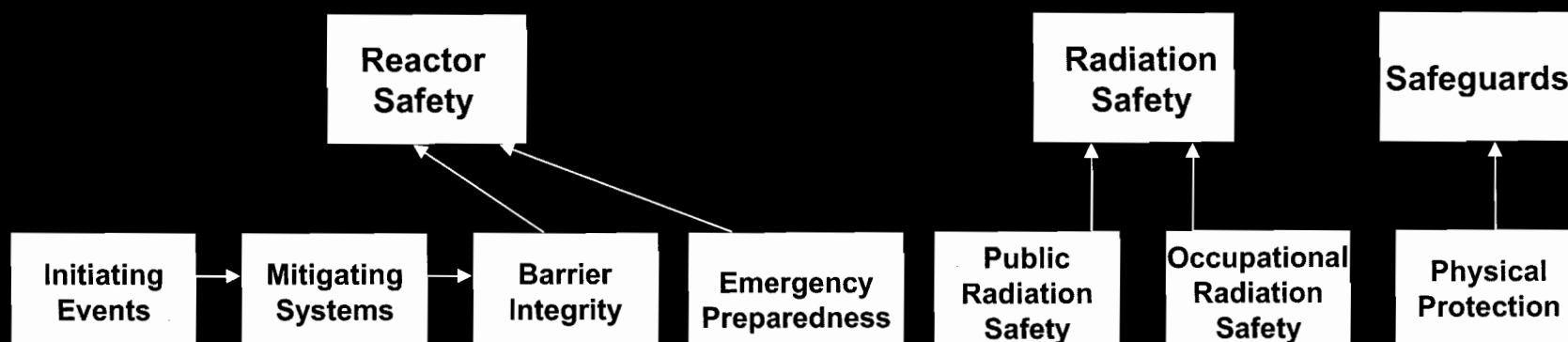


## NRC Strategic Plan Goals

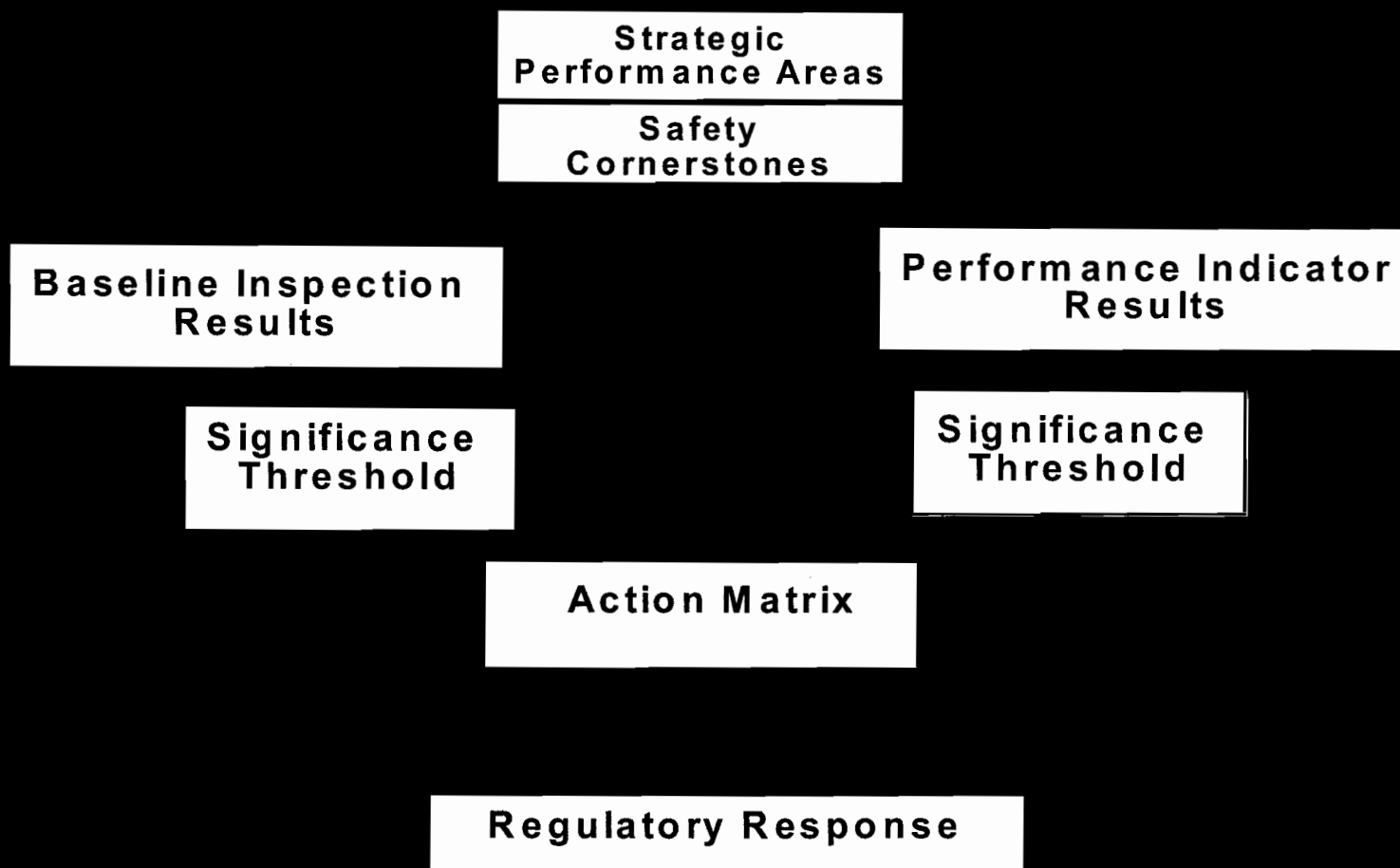
- Safety: Ensure adequate protection of public health and safety and the environment
- Security: Ensure adequate protection in the secure use and management of radioactive materials

# Reactor Oversight Process

## 3 Strategic Areas & 7 Cornerstones



# Reactor Oversight Process





## Typical Baseline Inspection Areas

- **Equipment Alignment**
- **Maintenance**
- **Fire Protection**
- **Operator Response**
- **Emergency Preparedness**
- **Worker Radiation Protection**
- **Radiological Environmental Monitoring**
- **Corrective Action Program**
- **Corrective Action Case Reviews**



## NRC Performance Indicators

- **Initiating Events**
- **Mitigating Systems**
- **Barrier Integrity**
- **Emergency Planning**
- **Radiation Protection**
- **Security [Not Publicly Available]**



## Significance Threshold

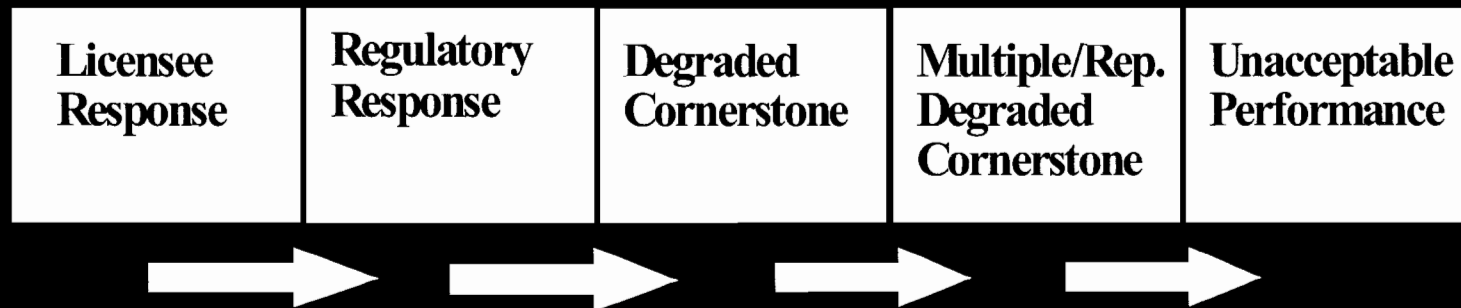
### Performance Indicators

- **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 2009)**

<b>Licensee Response</b>	<b>86</b>
<b>Regulatory Response</b>	<b>17</b>
<b>Degraded Cornerstone</b>	<b>1</b>
<b>Multiple/Repetitive Degraded Cornerstone</b>	<b>0</b>
<b>Unacceptable</b>	<b>0</b>
<hr/>	
<b>Total</b>	<b>104</b>





# National Summary of Plant Performance

(at end of 2009)

## Performance Indicator Results

➤ Green	1647
➤ White	4
➤ Yellow	0
➤ Red	0

## Total Inspection Findings

➤ Green	747
➤ White	15
➤ Yellow	0
➤ Red	0



## **NRC Inspection Activities at** **Millstone (for 2009)**

- **7249 hours of inspection and related activities**
- **3 resident inspectors on-site**
- **15 regional inspections**
- **2 major team inspections:**
  - **Component Design Basis, U2 & U3**
  - **Void in ECCS Piping SIT, U3**



## **Millstone Pls / Findings** **(January 1 – December 31, 2009)**

- **All Green Performance Indicators**
- **14 Green inspection findings**



## NRC Inspection Findings Millstone

- Green – Ineffective and untimely corrective actions on two non-vital power supplies results in a Reactor Trip
- Green – Implementation of a design change on a Motor Operated Disconnect resulted in a Rapid Reactor Shutdown
- Green – Inadequate and untimely corrective actions caused the loss of Control Room Annunciators and declaration of Unusual Event



## **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 all four quarters of 2009**
- **All cornerstone objectives were fully met**
- **NRC plans baseline inspections at Millstone for the remainder of 2010**



# **NEAC Response and Remarks**

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## **Millstone Nuclear Power Station Units 2 & Unit 3**



## 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**

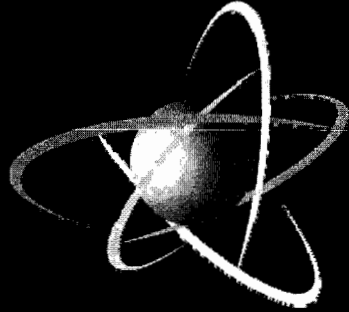
- **Donald Jackson, Branch Chief**
  - 610-337-5306
- **Steve Shaffer, Senior Resident Inspector**
  - 860-447-3170
- **James Krafty, Resident Inspector**
  - 860-447-3170
- **Brian Haagensen, Resident Inspector**
  - 860-447-3170
- **Thomas Setzer, Senior Project Engineer**
  - 610-337-5165





## 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**

**April 22, 2010**