

Date: July 7, 2011

Re: Millstone Annual Assessment Meeting  
NRC Slides

Attached are the slides that were presented at the  
Millstone Annual Assessment Meeting.



# ***Millstone Assessment Meeting***

## **Millstone Power Station Safety Performance in 2010 & U.S. Nuclear Plant Safety in light of Japan Events**

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**2010 Reactor Oversight Process  
Nuclear Regulatory Commission – Region I**



# ***NRC Representatives***

- **Jim Clifford – Deputy Director, Division of Reactor Projects**
- **Don Jackson – Branch Chief**
- **Steve Shaffer – Senior Resident Inspector**
- **Brian Haagensen – Resident Inspector**
- **Jim Krafty – Resident Inspector**



# ***Agenda***

- **Introduction**
- **Discussion of Millstone safety performance**
- **Discussion of U.S. nuclear plant safety in light of Japan events**
- **NRC to address public questions**
- **Closing remarks**



# ***NRC Assessment Summary***

- **Dominion operated Millstone safely and in a manner that preserved the public health and safety and protected the environment.**
- **Licensee response column of the Action Matrix**
- **Baseline inspections planned for 2011 based on 2010 assessment. However, a reactive inspection was conducted due to a plant event in February 2011**



# ***Inspection Activities in 2010***

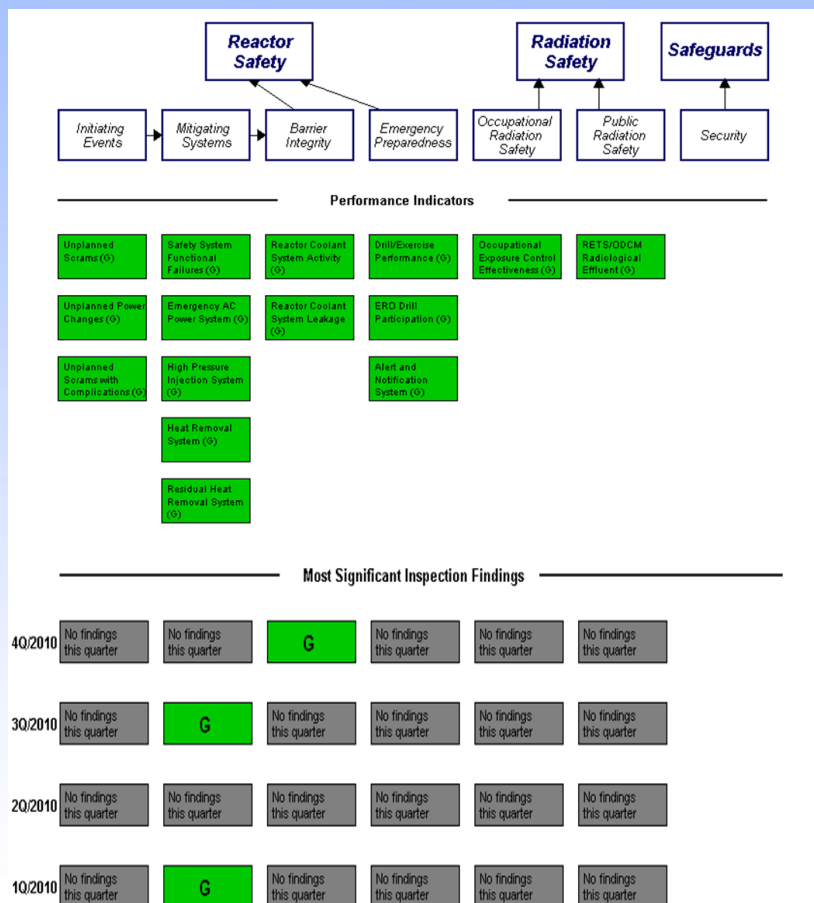
- **8258 hours of inspection and related activities**
- **3 resident inspectors on site – residents perform inspections daily and can respond to plant events at any time**
- **16 regional inspections**
- **3 major team inspections**
  - **Problem Identification & Resolution**
  - **Triennial Fire Protection**
  - **Emergency Preparedness Exercise**





# Performance Indicator and Inspection Results

January 1 through December 31, 2010



- All Green Performance Indicators
- 16 Green/Severity Level IV inspection findings
- No greater than green/severity level IV inspection findings



# ***NRC Action Matrix***

Licensee Response	Regulatory Response	Degraded Cornerstone	Multiple Repetitive Degraded Cornerstone	Unacceptable Performance
All Inputs are Green; Cornerstone Objectives Fully Met	1 or 2 White Inputs; Cornerstone Objectives Fully Met	2 White or 1 Yellow Input; Cornerstone Objectives Met w/ Moderate Degradation in Safety Performance	Multiple Yellow Inputs or 1 Red Input; Cornerstone Objectives Met w/ Significant Degradation in Safety Performance	Overall Unacceptable Performance; Plants not permitted to Operate w/in this Column; Unacceptable Margin to Safety



- **Increasing safety significance**
- **Increasing NRC inspection efforts**
- **Increasing NRC/Licensee management involvement**
- **Increasing regulatory actions**



# 2010 Millstone Assessment Summary

- Millstone Power Station was operated safely
- Licensee Response column of the Action Matrix
- Baseline inspections planned for 2011 based on 2010 assessment. However, a reactive inspection was conducted due to a plant event in February 2011





# ***Millstone Assessment Meeting***

## **U.S. Nuclear Plant Safety in Light of Japan Events**

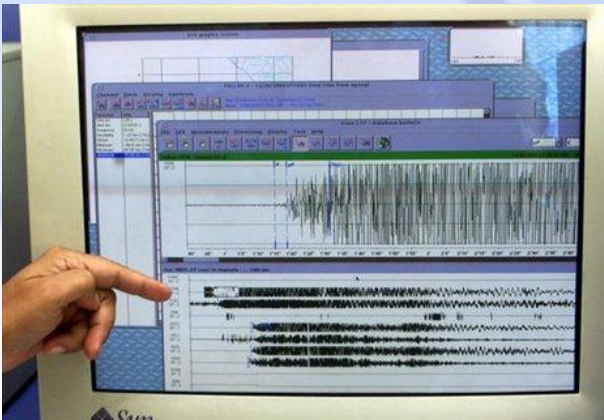


# ***U.S. Nuclear Plants Remain Safe***

- **NRC requires plants to be designed to withstand external events**
- **NRC requires a defense-in-depth approach to safety**
- **NRC performs independent safety inspections**
- **NRC assesses new safety information and requires improvements**



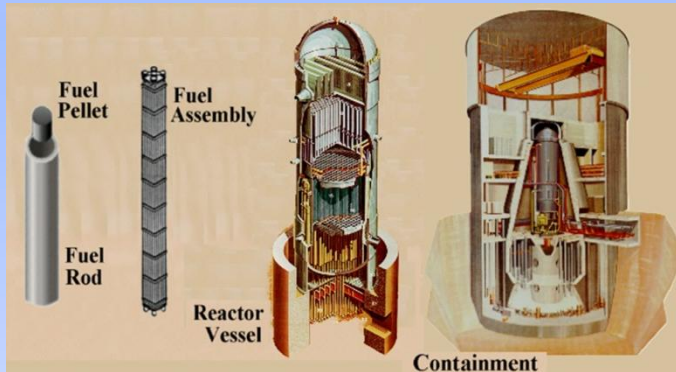
# ***Designed for Site Specific Natural Events***



- Earthquakes
- Tsunamis
- Hurricanes
- Floods
- Tornadoes



# ***The NRC Requires Defense-In-Depth***



- **Redundant and diverse safety systems**
- **Multiple physical barriers to contain radioactive material**
- **Testing and inspection of systems important to safety**
- **Emergency planning**





# ***NRC Independent Safety Inspections***

## **Reactor Oversight Program**

- **NRC inspectors have unfettered access to all plant activities related to nuclear safety and security**
- **At least two full-time NRC resident inspectors at each nuclear plant**
- **NRC specialists conduct additional inspections at each nuclear plant**

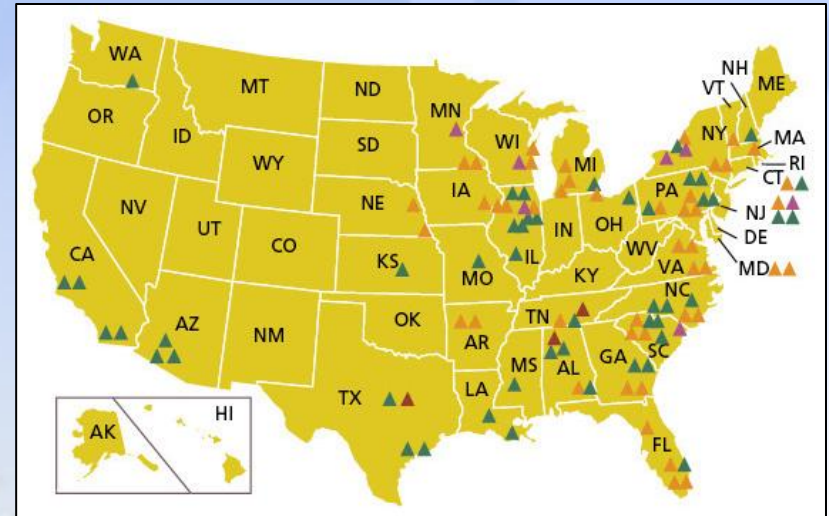




# ***NRC Requires Safety Improvements***

**NRC assesses new safety information, develops lessons learned, and requires safety enhancements:**

- **NRC operating experience program**
- **Rulemaking (Station Blackout)**
- **Post TMI Actions**
- **Post 9/11 Orders**
- **Generic Safety Issues**





# ***NRC Response to Events in Japan***

- **NRC conducting a methodical and systematic review**
- **Near-term actions (<90 days)**
  - **conducting additional inspections**
  - **identifying near term operational issues**
- **Longer-term actions**





# ***Meeting Ground Rules***

- 1. Please be respectful to the speaker – only one speaker at a time**
- 2. See NRC staff if you have procedural questions/concerns or still want to sign up.**
- 3. NRC staff members will be available after the meeting to talk to those interested**



# Questions





# Contacting the NRC

- Report a safety concern
  - 1-800-695-7403
  - [allegation@nrc.gov](mailto:allegation@nrc.gov)
- General questions
  - [www.nrc.gov](http://www.nrc.gov)
  - Region I Public Affairs
    - Diane Screnci, 610-332-5330 or [diane.screnci@nrc.gov](mailto:diane.screnci@nrc.gov)
    - Neil Sheehan, 610-332-5331 or [neil.sheehan@nrc.gov](mailto:neil.sheehan@nrc.gov)

