



Beaver Valley Assessment Meeting

Beaver Valley Safety Performance in 2010 & U.S. Nuclear Plant Safety in light of Japan Events

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

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Today's NRC Representatives

- **Darrell Roberts** – Director for Division of Reactor Projects (DRP)
- **Ron Bellamy** – DRP Branch Chief
- **David Werkheiser** – Senior Resident Inspector
- **Erin Bonney** – Resident Inspector
- **Bill Cook** – Senior Reactor Analyst

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Agenda

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

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NRC Assessment Summary

- FENOC operated Beaver Valley safely and in a manner that preserved the public health and safety and protected the environment.
- Beaver Valley was in the Licensee Response column of the Action Matrix during the period
- Two team and two temporary instruction inspections are planned for 2011

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Inspection Activities in 2010

- 4600 hours of inspection and related activities
- There are two resident inspectors on site – residents perform inspections daily and can respond to plant events at any time
- 14 regional inspections
- Five team inspections
 - Emergency Prep.
 - Heat Sink & Mods
 - Security & FOF



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Performance Indicator and Inspection Results

January 1 through December 31, 2010



- All Green Performance Indicators
- Four Green non-cited violations/findings
- No Greater than Green inspection findings

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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

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2010 Beaver Valley Assessment Summary

- Beaver Valley was operated safely during the period
- Licensee Response column of the Action Matrix
- Baseline inspections are planned for 2011

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

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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**

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Designed for Site Specific Natural Events




- Earthquakes
- Tsunamis
- Hurricanes
- Floods
- Tornadoes

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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

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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



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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



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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



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Director's Comments

**Darrell Roberts, Director
Division of Reactor
Projects
USNRC, Region I**

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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

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Questions



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Contacting the NRC

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

