

Salem and Hope Creek Assessment Meeting

Salem and Hope Creek Safety Performance in 2010 & U.S. Nuclear Plant Safety in light of Japan Events

2010 Reactor Oversight Process Nuclear Regulatory Commission – Region I



NRC Representatives

- Darrel Roberts Director, Division of Reactor Projects
- Arthur Burritt Branch Chief
- Daniel Schroeder Senior Resident Inspector, Salem
- Brian Smith Senior Resident Inspector, Hope Creek
- Amar Patel Resident Inspector, Hope Creek





- Introduction
- Discussion of safety performance at Salem and Hope Creek
- Discussion of U.S. nuclear plant safety in light of Japan events
- NRC to address public questions
- Closing remarks

3



NRC Assessment Summary Salem

- PSEG operated Salem 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



Inspection Activities 2010 Salem

- 6932 hours of inspection and related activities
- 2 resident inspectors on site residents perform inspections daily and can respond to plant events at any time
- 2 major team inspections
 - Permanent Modifications
 - Emergency Planning





Performance Indicator and Inspection Results

January 1 through December 31, 2010



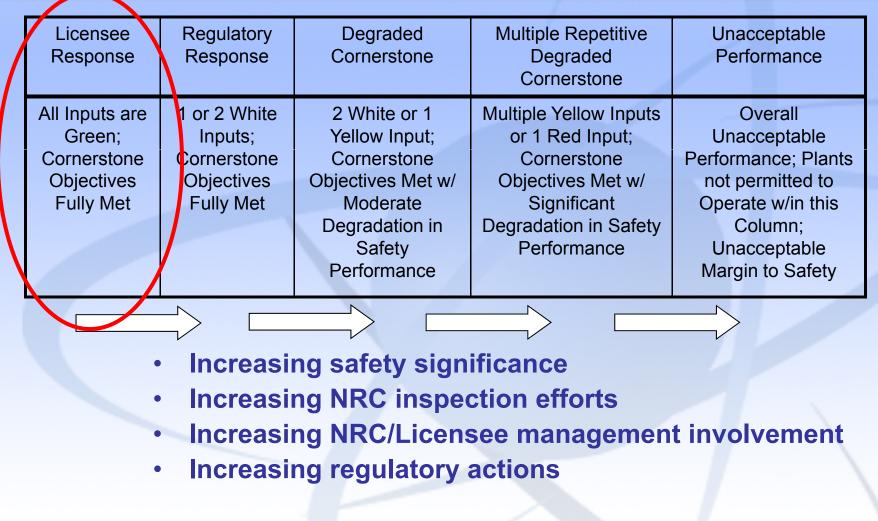
All Green Performance

Salem

- Indicators
- 4 Green inspection findings



NRC Action Matrix





NRC Assessment Summary Hope Creek

- PSEG operated Hope Creek 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



Inspection Activities 2010 Hope Creek

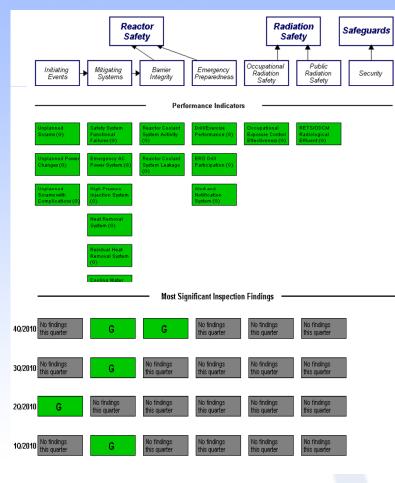
- 5342 hours of inspection and related activities
- 2 resident inspectors on site residents perform inspections daily and can respond to plant events at any time
- 2 major team inspections
 - Fire Protection
 - Emergency Planning





Performance Indicator and Inspection Results

January 1 through December 31, 2010



Hope Creek

- All Green Performance Indicators
- 9 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 Salem and Hope Creek Assessment Summary

- Salem and Hope Creek were operated safely
- Licensee Response column of the Action Matrix
- Baseline inspections planned for 2011







Salem and Hope Creek Assessment Meeting

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



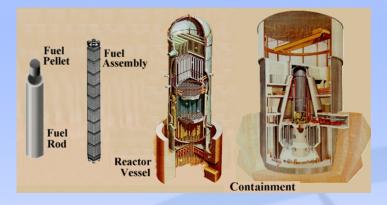
U.S. Nuclear Plants Remain Safe

- 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 In his day to be with a public of the Earthquakes Tsunamis Hurricanes Floods Tornadoes 15 Protecting People and the Environment



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

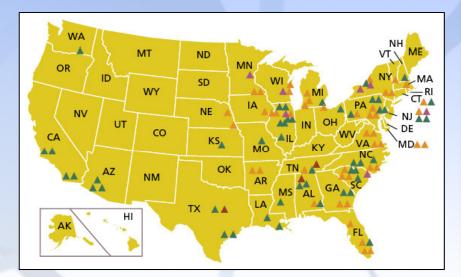




NRC Requires Safety Improvements

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 operation
 issues
- Longer-term actions





Director's Comments

Darrell Roberts

Director Division of Reactor Projects Region I



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





Contacting the NRC

- STATES **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

Protecting People and the Environment

REGULATOR

NOIS