

Seabrook Station, Unit 1 Annual Assessment Meeting

2008 Reactor Oversight Process

Nuclear Regulatory Commission – Region I



Purpose of Today's Meeting

- Discuss FPL Energy's performance at Seabrook during 2008
- Provide FPL Energy the opportunity to respond to the NRC's annual assessment and discuss improvement initiatives
- Provide an opportunity for discussion between the public and the NRC on plant performance and the NRC's role in ensuring safe plant operations



NRC Representatives

- Arthur Burritt, Branch Chief
 - **>** 610-337-5069
- William Raymond, Senior Resident Inspector
 - > 603-474-3589
- Jonathan Johnson, Resident Inspector
 - **>** 603-474-3589



<u>Agenda</u>

- NRC Overview and Performance Goals
- Reactor Oversight Process (ROP)
- National Summary of Plant Performance
- Plant Performance Assessment Results
- FPL Energy Response and Remarks
- NRC Closing Remarks
- Break
- NRC available to address public questions



What the NRC Regulates

- <u>Nuclear reactors</u> commercial power, research, test and new reactor designs
- <u>Nuclear security</u> physical protection for nuclear facilities and materials
- Nuclear materials reactor fuel and radioactive materials for medical, industrial, and academic uses
- <u>Nuclear waste</u> transportation, storage, disposal and facility decommissioning



Region I Organization

Samuel J. Collins Regional Administrator

Marc L. Dapas
Deputy Regional Administrator

Division of Reactor Safety

Darrell J. Roberts, Director Pete Wilson, Deputy Director

Regional Specialists

Division of Reactor Projects

David C. Lew, Director James W. Clifford, Deputy Director

Arthur Burritt
Chief, Project Branch 3

Division of Nuclear Materials Safety

John D. Kinneman, Director Daniel S. Collins, Deputy Director

Regional Specialists

Seabrook Resident Inspection Staff

William Raymond, Senior Resident Inspector Jonathan Johnson, Resident Inspector

Project Engineers

Leonard Cline, Senior Project Engineer
Jeffrey Bream, Project Engineer



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



Regulatory Activities

- Rules and Regulations
- Licensing
- Inspection, Enforcement, and Operational Experience
- Research and Testing
- Incident Response



For Power Reactors

- Perform independent inspections at every commercial reactor site on a daily basis
- License personnel who operate commercial nuclear power plants
- Confirm adequate monitoring of radiological effluents



For Power Reactors

- Perform inspections and exercises to test security programs
- Coordinate with other federal agencies to assess potential threats
- Staff a 24 hour Emergency Operations Center
- Dispatch resident inspectors to the plant during events at all hours



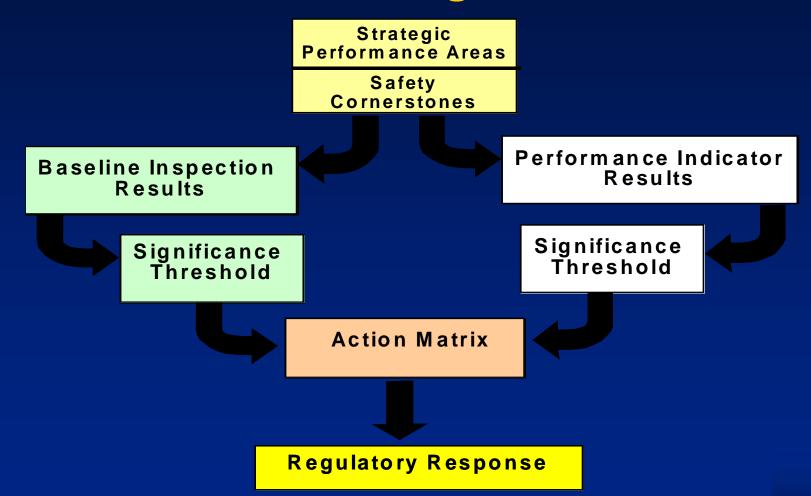
Reactor Oversight Process

3 Strategic Areas & 7 Cornerstones





Reactor Oversight Process



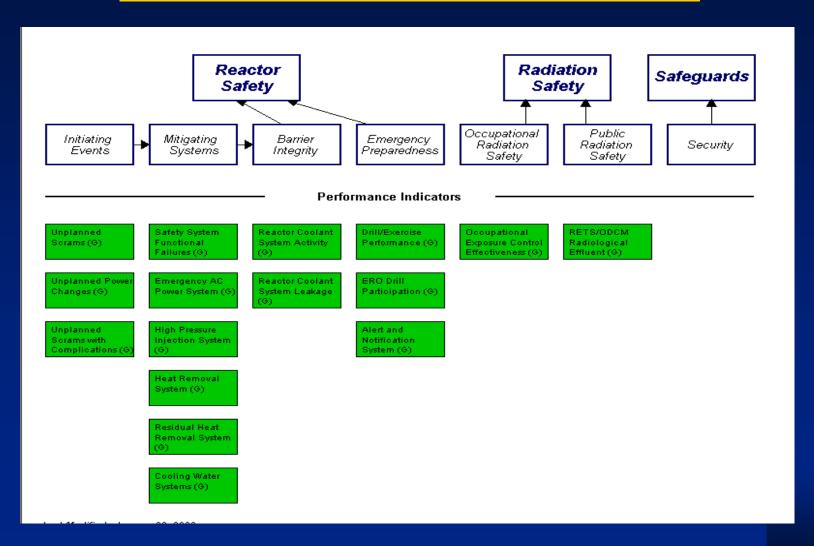


Typical Baseline Inspection Areas

- Equipment Alignment
- Fire Protection
- Operability Training
- Post-Maintenance Testing
- Refueling & Outage Activities
- Surveillance Testing
- Emergency Preparedness Assessment
- Corrective Action Program



NRC Performance Indicators





Significance Threshold

Performance Indicators

Green Baseline Inspection

White Requires additional NRC oversight

> Yellow Requires more NRC oversight

Red Requires the most NRC oversight

Inspection Findings

Green Very low safety issue

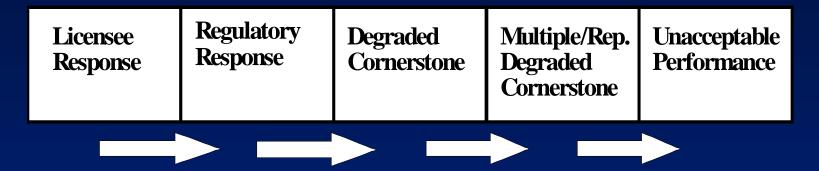
White Low to moderate safety issue

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 2008)

Licensee Response Regulatory Response Degraded Cornerstone Multiple/Repetitive Degraded Cornerstone	86 14 3 1		
		Unacceptable	0
		Total	104



National Summary of Plant Performance

(at end of 2008)

Performance Indicator Results

> **Green** 1762

> White 6

Yellow

> Red 0

Total Inspection Findings

▶ Green 776

> White 17

> Yellow 0

> Red 0



Seabrook Annual Assessment for 2008

- FPL Energy operated Seabrook in a manner that preserved public health and safety and protected the environment
- FPL Energy performance at Seabrook fully met all cornerstone objectives
- Seabrook was in the Licensee Response Column of the Action Matrix for all four quarters of 2008
- NRC plans to perform baseline inspections at Seabrook for the remainder of 2009



NRC Inspection Activities at Seabrook (for 2008)

- 6148 hours of inspection and related activities
- 2 resident inspectors on-site
- 14 regional specialist inspections
- 3 major team inspections:
 - Triennial Fire Protection
 - Problem Identification and Resolution
 - EP Exercise Evaluation



Seabrook Pls / Findings (January 1 – December 31, 2008)

All Green Performance Indicators

- 3 Green findings
 - 1 Severity Level IV violation

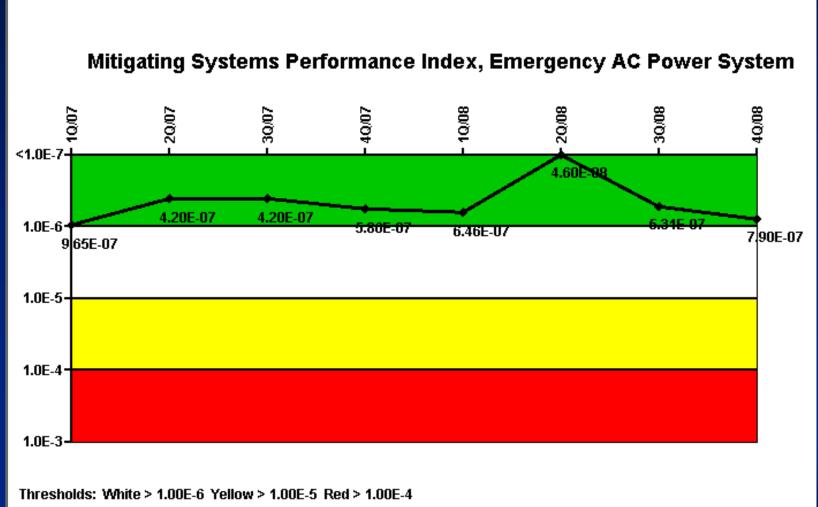


NRC Inspection Findings Seabrook

- Green Seabrook staff did not follow tagging procedure requirements which caused a loss of configuration control that inadvertently drained 200 gallons from the RCS.
- Green Seabrook staff did not control a high radiation area as a locked high radiation area as required by plant technical specifications.
- SL IV Seabrook staff did not conduct an adequate dry run for welding the inner top cover of a spent fuel dry shielded canister.



NRC Performance Indicators





Seabrook Assessment Summary

FPL Energy operated the plant safely

 Seabrook was in the Licensee
 Response Column of the Action Matrix for all of 2008



Licensee Response and Remarks

Mr. G. St. Pierre Site Vice President – Seabrook FPL Energy



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



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
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