



Point Beach Nuclear Plant Annual Assessment Meeting

Reactor Oversight Program - 2007

Nuclear Regulatory Commission - Region III

Lisle, IL

July 16, 2008

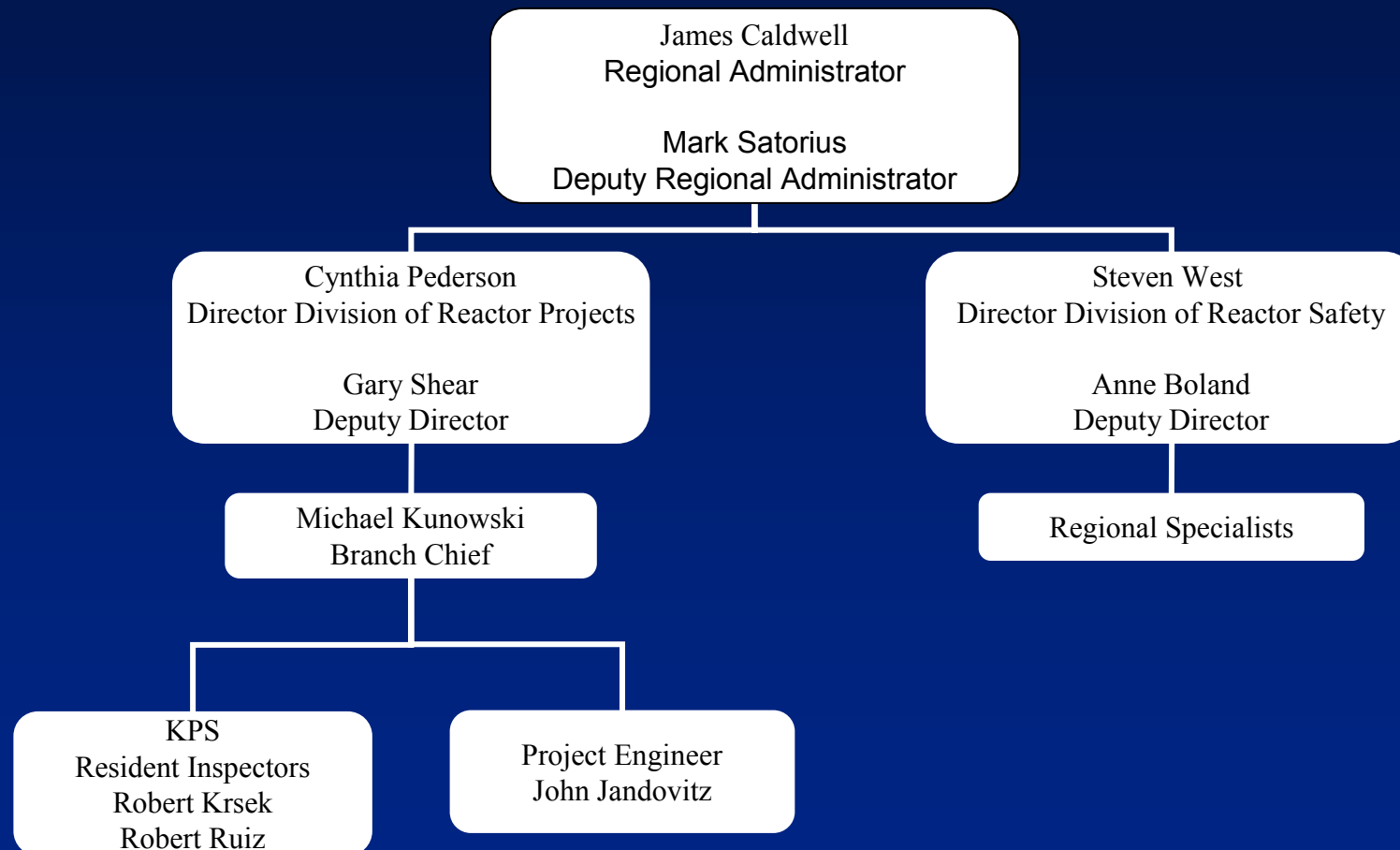
Purpose of Today's Meeting

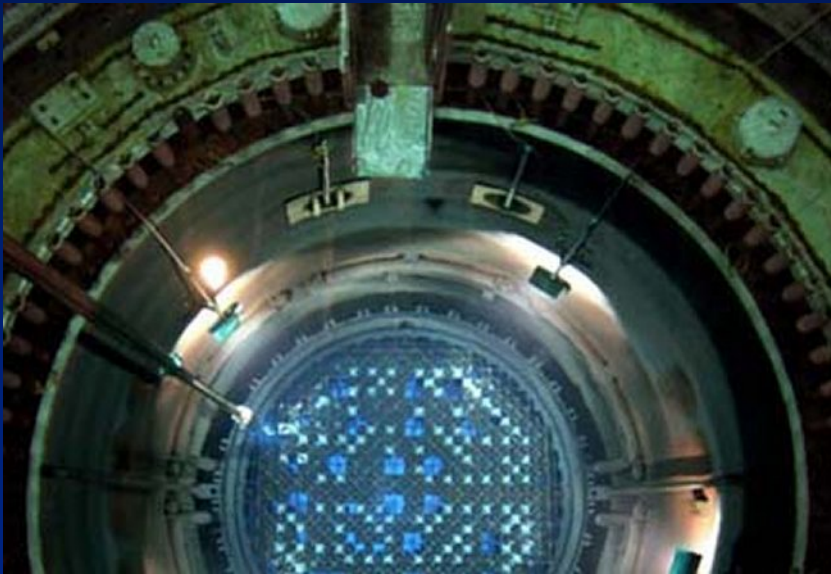
- A public forum to discuss Point Beach performance in 2007
- NRC will address the performance issues identified in the annual assessment letter
- Licensee will be given the opportunity to respond and inform the NRC of new or existing programs to maintain or improve performance

Agenda

- Introduction
- Review of Reactor Oversight Process
- National Summary of Plant Performance
- Discussion of Plant Performance Results
- Licensee Response and Remarks
- NRC Closing Remarks
- Break
- NRC available to address public questions

Region III Organization





Our Mission

- To license and regulate the nation's civilian use of byproduct, source, and special nuclear materials to ensure adequate protection of public health and safety, promote the common defense and security, and protect the environment.



Some Nuclear Facts

- More than 100 nuclear power plants supply about 20 percent of the electricity in the U.S.
- Nuclear materials are used in medicine for diagnosis and cancer treatment.
- Nuclear materials are widely used in industry, such as in density gauges, flow measurement devices, radiography devices, and irradiators.

The NRC Regulates

- Nuclear reactors - commercial power reactors, research and test reactors, new reactor designs
- Nuclear materials - nuclear reactor fuel, radioactive materials for medical, industrial, and academic use
- Nuclear waste – transportation, storage and disposal of nuclear material and waste, decommissioning of nuclear facilities
- Nuclear security – physical security of nuclear facilities and materials from sabotage or attacks

What We Don't Do

- Regulate nuclear weapons, military reactors, or space vehicle reactors
- Own or operate nuclear power plants
- Regulate some radioactive materials, such as X-rays and naturally occurring radon

How We Regulate

- Establish rules and regulations
- Issue licenses
- Provide oversight through inspection, enforcement, and evaluation of operational experience
- Conduct research to provide support for regulatory decisions
- Respond to events and emergencies

Assurance of Plant Safety

- Require “defense-in-depth”
- Require long-term maintenance of equipment
- Require continual training of operators
- Verify compliance with regulations

What We Do – Nuclear Waste



- The NRC regulates:
 - Storage of spent reactor fuel in fuel pools or dry storage casks, and
 - A national spent fuel storage site--Yucca Mountain.

What We Do – Nuclear Security

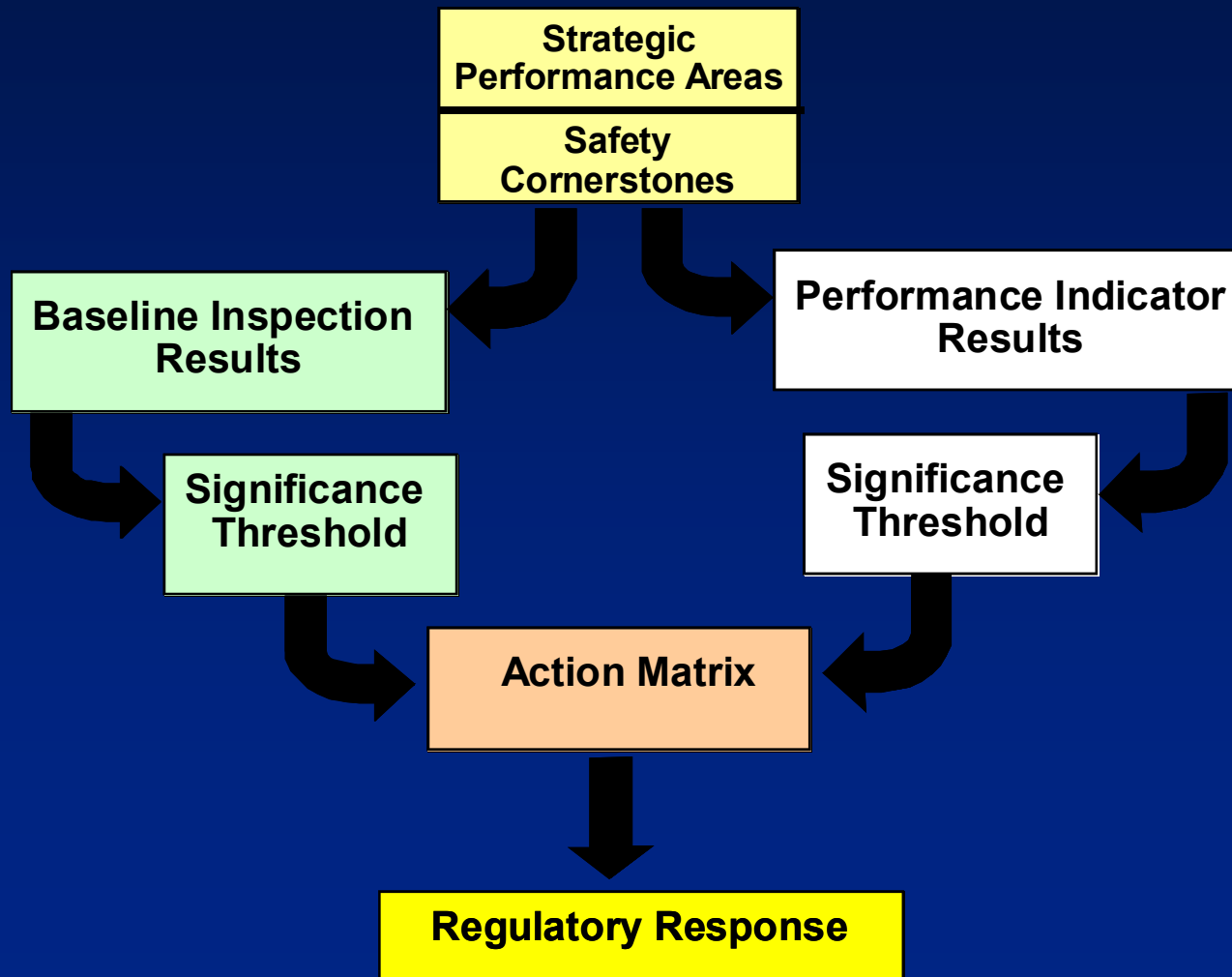


- NRC Requires:
 - Well-armed and well-trained security forces,
 - Surveillance and perimeter patrols,
 - State-of-the-art site access equipment and controls,
 - Physical barriers and detection zones, and
 - Intrusion detection systems and alarm stations.

NRC Performance 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



Examples of Baseline Inspections

- Equipment Alignment ~80 hrs/yr
- Triennial Fire Protection ~250 hrs every 3 yrs
- Operator Response ~125 hrs/yr
- Emergency Preparedness ~80 hrs/yr
- Rad Release Controls ~110 hrs every 2 yrs
- Worker Radiation Protection ~95 hrs/yr
- Corrective Action Program ~250 hrs every 2 yrs
- Corrective Action Case Reviews ~60 hrs/yr

Significance Threshold

Performance Indicators

- Green:** Only Baseline Inspection
- White:** May increase NRC oversight
- Yellow:** Requires more NRC oversight
- Red:** Requires more 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

Status at End of 2007

Licensee Response	87
Regulatory Response	8
Degraded Cornerstone	8
Multiple/Repetitive Degraded Cornerstone	1
Unacceptable	0
Total	104

National Summary

- Performance Indicator Results (for 2007)
 - Green 1942
 - White 8
 - Yellow 1
 - Red 0

- Total Inspection Findings (for 2007)
 - Green 759
 - White 9
 - Yellow 2
 - Red 0

Point Beach Assessment Results

(January 1 - December 31, 2007)

- Plant performance for the most recent quarter was within the Licensee Response column of the NRC's Action Matrix based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight.

Inspection Activities

(January 1 - December 31, 2007)

- The inspections were performed by the Resident Inspectors and Regional Inspectors, including specialists in engineering, security, emergency preparedness, and radiation protection
- There were 29 Green or SL-IV Inspection Findings identified during 2007 and one SL-III violation issued relating to the reactor vessel head drop analysis.
- There was a Refueling Outage on Unit 1 during the 2nd Quarter of 2007.

Point Beach Inspection Activities

(January 1 - December 31, 2007)

- Major team inspections included the Tri-Annual Fire Protection Inspection; Evaluation of Changes, Tests, or Experiments and Permanent Plant Modifications Inspection; and the June Special Inspection related to the Unit 1 Turbine-Driven Auxiliary Feedwater Pump.

Annual Assessment Summary

(January 1 - December 31, 2007)

- FPL Energy Point Beach, LLC operated PBNP in a manner that preserved public health and safety.
- NRC plans baseline inspections at PBNP for the remainder of the assessment period.

Annual Assessment Summary

(January 1 - December 31, 2007)

- Substantive cross-cutting issues—one in problem identification and resolution and one in human performance
- NRC plans baseline inspections at Point Beach for 2008

Licensee Response and Remarks

Mr. Larry Meyer
Site Vice-President
Point Beach Nuclear Plant

Open to the Public

- The NRC places a high priority on keeping the public and stakeholders informed of its activities.
- At www.nrc.gov, you can:
 - Find public meeting dates and transcripts;
 - Read NRC testimony, speeches, press releases, and policy decisions; and
 - Access the agency's Electronic Reading Room to find NRC publications and documents.

Contacting the NRC

- Report an emergency
 - (301) 816-5100 (call collect)
- Report a safety concern
 - (800) 695-7403
 - Allegation@nrc.gov
- General information or questions
 - www.nrc.gov
 - Select “What We Do” for Public Affairs

NRC Representatives

- Cynthia Pederson, Director, Division of Reactor Projects
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- Gary Shear, Deputy Division Director, DRP
 - (630) 829-9601
- Jack Cushing, Project Manager, NRR
 - (301) 415-1424
- Rob Krsek, Senior Resident Inspector – Point Beach
 - (920) 755-2309
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- John Jandovitz, Senior Project Engineer
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- Michael Kunowski, Branch Chief
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NRC Representatives

- Patrick Loudon, Chief, Decommissioning Branch (ISFSI)
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- Viktoria Mitlyng, Public Affairs Officer
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- Prema Chandrathil, Public Affairs Officer
 - (630) 829-9663
- Steve Burton, Senior Resident Inspector - Kewaunee
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- Patrick Higgins, Resident Inspector - Kewaunee
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- NRC Region III Office Switchboard
 - (630) 829-9500 (800) 522-3025

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)