

Crystal River Unit 3 Annual Assessment Open House

Reactor Oversight Program - 2009

Nuclear Regulatory Commission - Region II Atlanta GA May 3, 2010

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Purpose of Today's Meeting

A public forum to discuss and answer questions about the NRC's assessment of safety performance at Crystal River Unit 3 during 2009





Introduction

- Review of Reactor Oversight Process
- National Summary of Plant Performance
- Discussion of Plant Performance Results
- NRC available to address public questions



Region II Organization

Luis Reyes Regional Administrator

Victor McCree Deputy Regional Administrator

Len Wert Director Division of Reactor Projects

> Joel Munday Deputy Director

Marvin Sykes Branch Chief

Crystal River Unit 3 Resident Inspectors Thomas Morrissey Rogerio Reyes

Project Engineers Son Ninh Pat Higgins John Lubinski Acting Director Division of Reactor Safety Harold Christensen Deputy Director

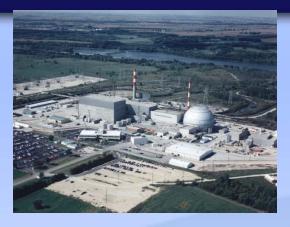
Regional Specialists

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







- 104 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.



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



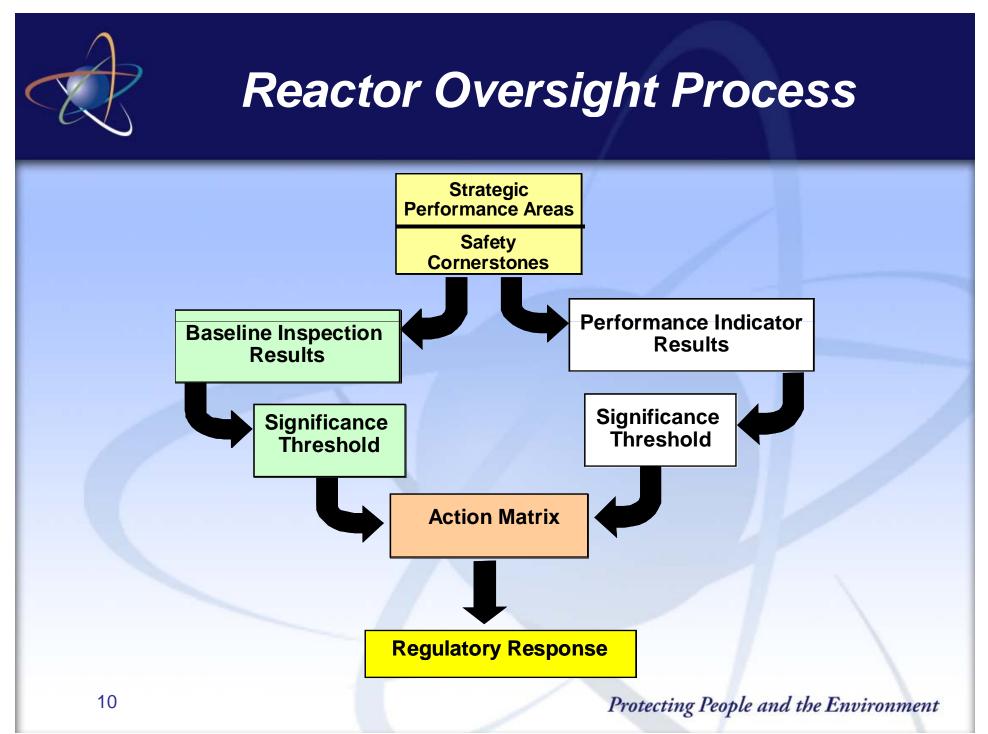
Assurance of Plant Safety

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



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.



Examples of Baseline Inspections

- Equipment Alignment
- Triennial Fire Protection
- Operator Response
- Emergency Preparedness
- Rad Release Controls
- Worker Radiation Protection
- Corrective Action Program
- Corrective Action Case Reviews

~80 hrs/yr ~250 hrs every 3 yrs ~125 hrs/yr ~80 hrs/yr ~110 hrs every 2 yrs ~95 hrs/yr ~250 hrs every 2 yrs ~60 hrs/yr



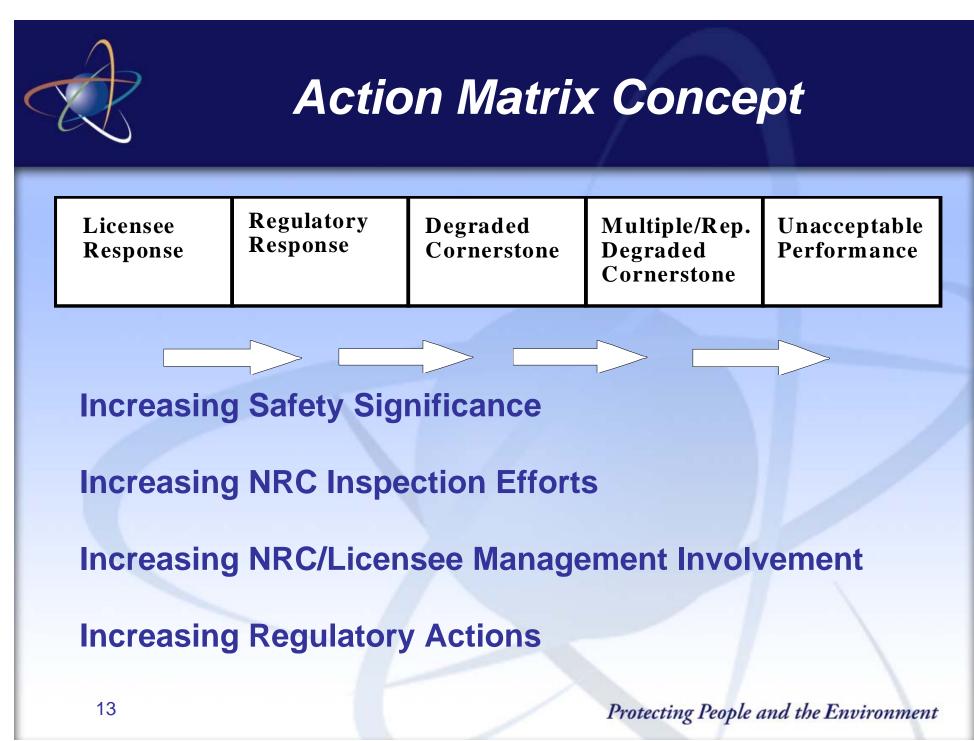
Significance Threshold

Performance Indicators

Green:Only Baseline InspectionWhite:Increases NRC oversightYellow:Increases NRC oversightRed:Increases NRC oversight

Inspection Findings

Green:	Very low safety issue
White:	Low to moderate safety issue
Yellow:	Substantial safety issue
Red:	High safety issue





National Summary of Plant Performance

Status as of 12/31/2009Licensee Response79Regulatory Response24Degraded Cornerstone1Multiple/Repetitive Deg. Cornerstone0Unacceptable0Total104



National Summary

- Performance Indicator Results (total for CY 2009)
 - Green 7039 - White 18
 - White 18 - Yellow 0
 - Red 0
- Total Inspection Findings (total for CY 2009)
 - Green 879

0

- White
- Yellow
- Red



Crystal River Assessment Results

January 1 - December 31, 2009

• The NRC found that the Crystal River plant's 2009 performance met all the agency's safety objectives and was at a level that results in no additional NRC oversite.

 Last fall the plant was shut down for a planned refueling outage and to replace the steam generators (SGs) inside the reactor building. When an opening was created in the containment wall to allow SG replacement, a gap was discovered near the outer portion of the reactor building. This prompted the NRC to launch a special inspection that is still ongoing.

Crystal River Inspection Activities

January 1 - December 31, 2009

- Baseline inspection hours: > 3400 Inspections conducted by resident inspectors, regional security, operations, and radiation protection inspectors. Six findings of very low significance findings were identified. Four of which were determined to be violations.
- Containment Special Inspection: Inspection is ongoing. > 2900 hours of inspection to date.
 Protecting People and the Environment

Enclosure 2



Crystal River Inspection Activities

January 1 - December 31, 2009

 In December 2008 the Licensee submitted an application to the NRC to extend the term of their operating license for an additional 20 years. The NRC review of this application which includes onsite inspections started in 2009 and is ongoing.

Crystal River Annual Assessment Summary

January 1 - December 31, 2009

- Progress Energy operated Crystal River Unit 3 in a manner that preserved public health and safety
- All cornerstone objectives were met

Protecting People and the Environment

Crystal River Annual Assessment Summary

January 1 - December 31, 2009

NRC 2010 Inspections:

NRC baseline inspections Steam generator replacement Containment Special Inspection License Renewal Inspections



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



Reference Sources

<u>Reactor Oversight Process</u>

- http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/in dex.html
- Public Electronic Reading Room
 - http://www.nrc.gov/reading-rm.html
- Public Document Room
 - 1-800-397-4209 (Toll Free)