

TURKEY POINT 3 AND 4 ANNUAL ASSESSMENT OPEN HOUSE

Reactor Oversight Program - 2009

Nuclear Regulatory Commission – Region II
HOMESTEAD FLORIDA
MAY 6, 2010

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Purpose of Today's Meeting

- **A public forum for discussion of the FPL's Turkey Point Nuclear Power Station performance in 2009**

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Protecting People and the Environment



Region II Organization

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Protecting People and the Environment



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.

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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.

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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

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Assurance of Plant Safety

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

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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.

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NRC Performance Goals

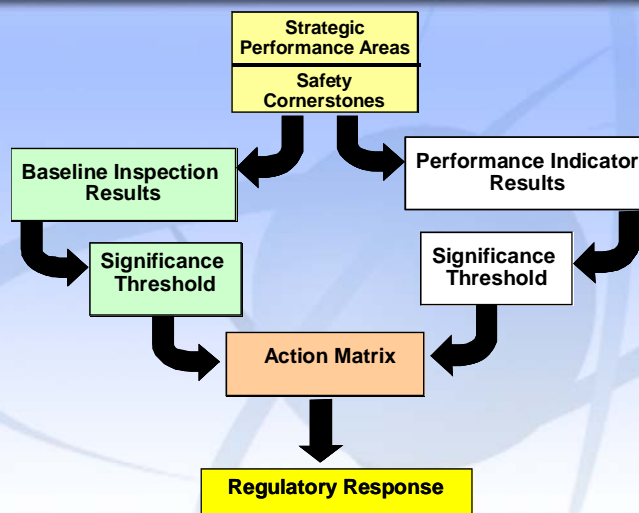
- **Safety:** Ensure adequate protection of public health and safety and the environment.
- **Security:** Ensure adequate protection in the secure use and management of radioactive materials.

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Reactor Oversight Process



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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

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Significance Threshold

Performance Indicators

- Green:** Only Baseline Inspection
- White:** Increases NRC oversight
- Yellow:** Increases NRC oversight
- Red:** Increases NRC oversight

Inspection Findings

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

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Action Matrix Concept

Licensee Response	Regulatory Response	Degraded Cornerstone	Multiple/Rep. Degraded Cornerstone	Unacceptable Performance
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Increasing Safety Significance

Increasing NRC Inspection Efforts

Increasing NRC/Licensee Management Involvement

Increasing Regulatory Actions

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National Summary of Plant Performance

Status as of 12/31/2009

Licensee Response	79
Regulatory Response	24
Degraded Cornerstone	1
Multiple/Repetitive Deg. Cornerstone	0
Unacceptable	0
Total	104

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National Summary

- Performance Indicator Results (total for CY 2009)
 - Green 7039
 - White 18
 - Yellow 0
 - Red 0
- Total Inspection Findings (total for CY 2009)
 - Green 879
 - White 7
 - Yellow 0
 - Red 0

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Turkey Point Assessment Results

January 1 - December 31, 2009

- All Performance Indicators and All Inspection Findings were of very low safety significance, Green
- Problems identified with the storage of spent fuel in the Unit 3 spent fuel pool were being evaluated

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Turkey Point Inspection Activities

January 1 - December 31, 2009

- **Two Refueling Outages were conducted**
- **Meeting held with FPL management to discuss improvements to the Safety Conscious Work Environment (SCWE) at Turkey Point and St. Lucie sites.**

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Turkey Point Annual Assessment Summary

January 1 - December 31, 2009

- **FPL operated Turkey Point 3 & 4 in a manner that preserved public health and safety**
- **All cornerstone objectives were met with only one potential greater than Green finding which remains under consideration**

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Turkey Point Annual Assessment Summary

January 1 - December 31, 2009

- **NRC plans baseline inspections at Turkey Point for 2010**
- **Triennial Fire Protection inspection completed with no findings of significance**
- **Problem Identification and Resolution inspection and Modifications (10CFR 50.59) inspection are in progress**

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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.

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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

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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)

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