North Anna Power Station
Units 1 & 2
Annual Assessment Meeting

Nuclear Regulatory Commission
Region II

U.S.NRC
United States Nuclear Regulatory Commission
Protecting People and the Environment

Our Mission

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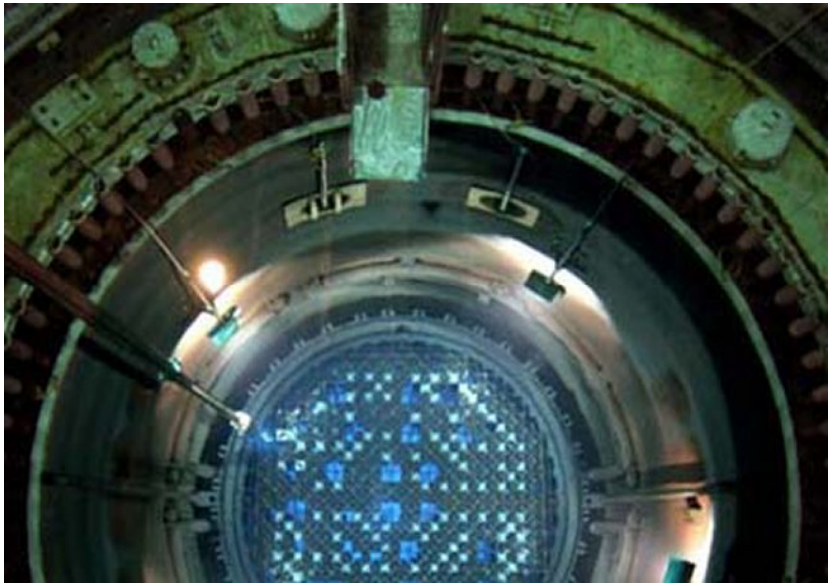
Protecting People and the Environment



- 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.

The NRC Regulates

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- 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

How We Regulate

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- 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

Regulatory Framework

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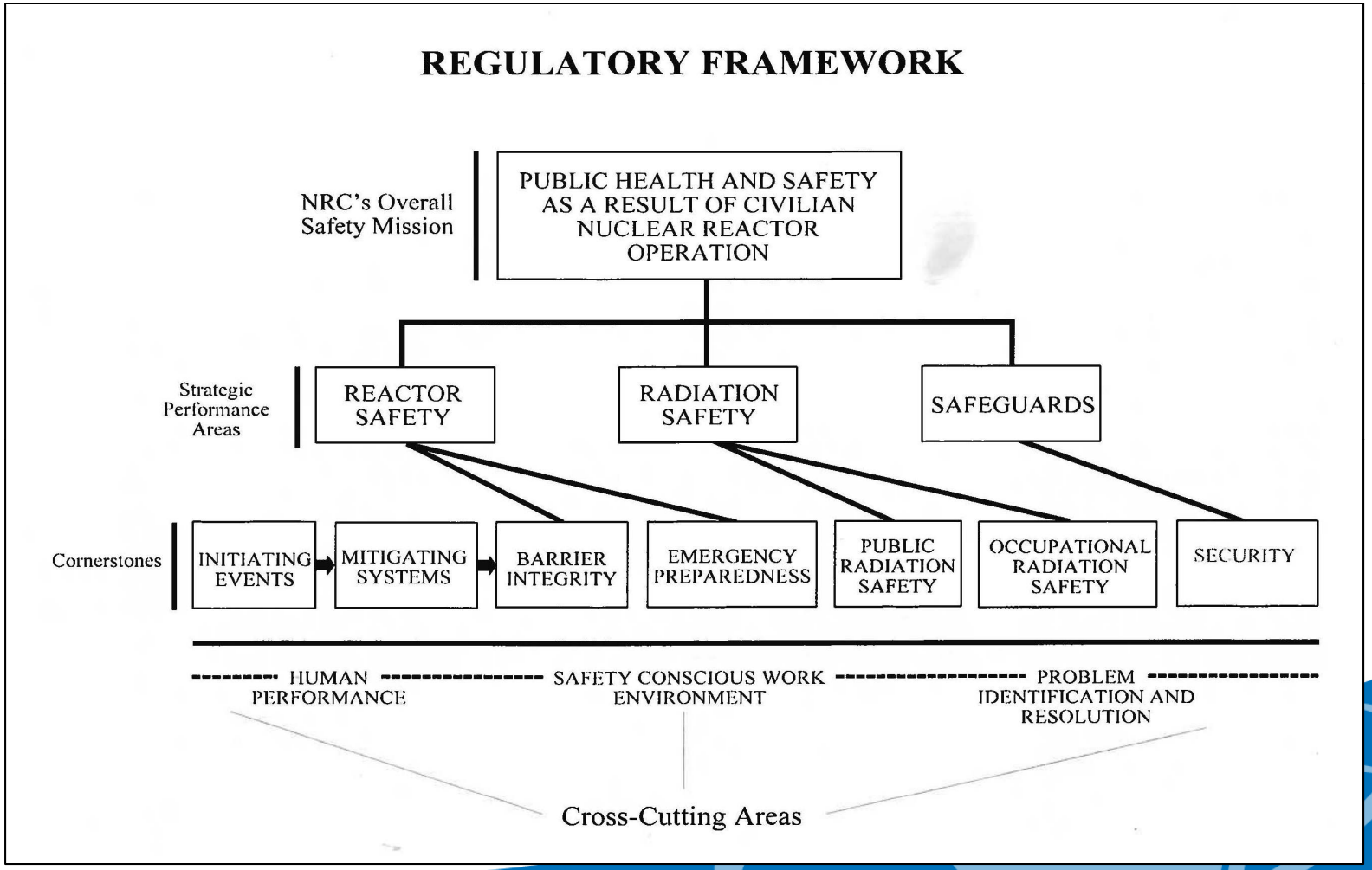
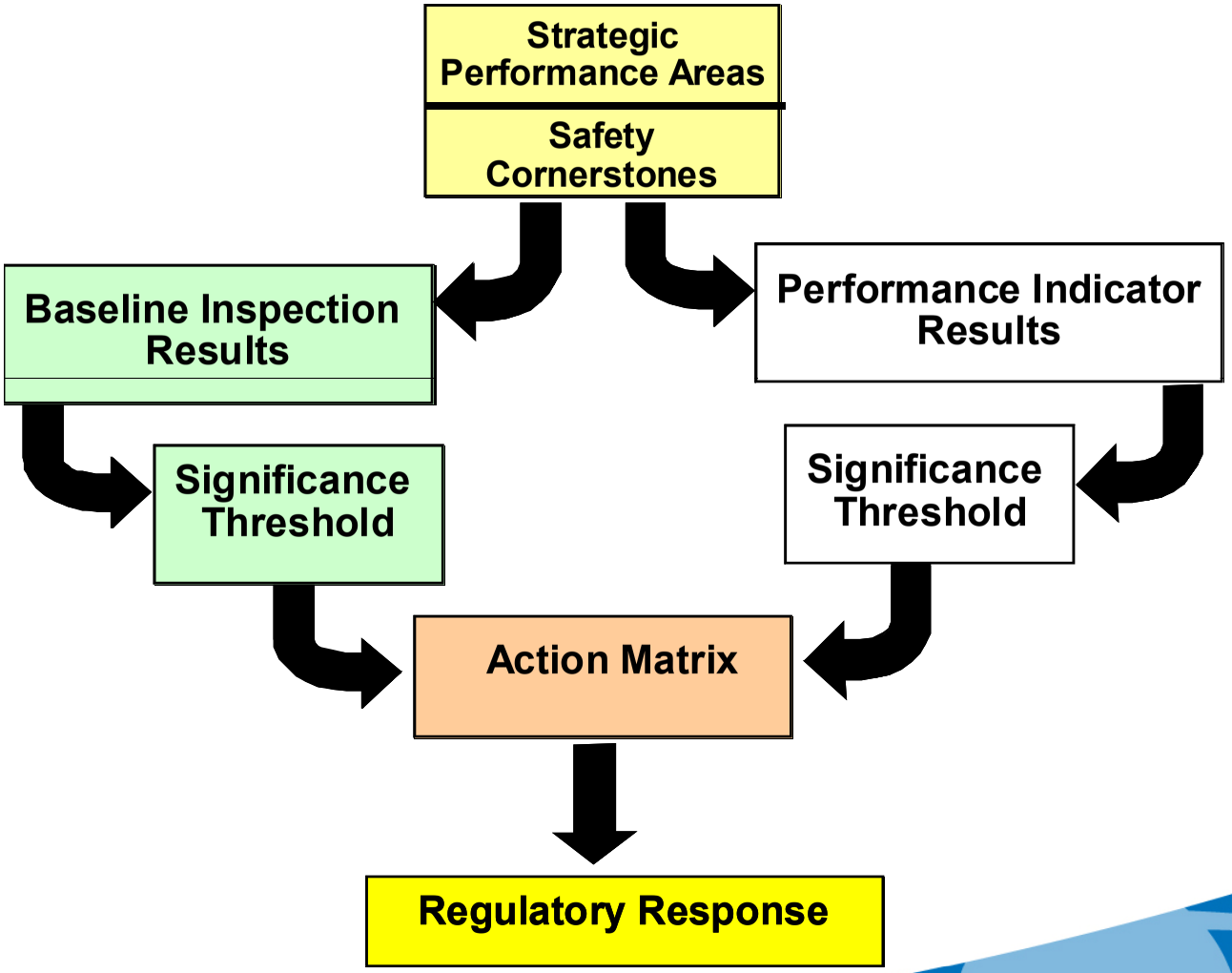


Reactor Oversight Process



Significance Threshold

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Performance Indicators

- **Green** — Performance within expected performance levels
- **White** — Performance outside an expected range, but cornerstone objectives are still being met
- **Yellow** — Cornerstone objectives met with a minimal reduction in the safety margin
- **Red** — Significant reduction in safety margin

Inspection Findings

- **Green** — Very low safety significance
- **White** — Low to moderate safety significance
- **Yellow** — Substantial safety significance
- **Red** — High safety significance

Action Matrix Concept

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Licensee Response	Regulatory Response	Degraded Cornerstone	Multiple/Rep. Degraded Cornerstone	Unacceptable Performance

Increasing Safety Significance

Increasing NRC Inspection Efforts

Increasing NRC/Licensee Management Involvement

Increasing Regulatory Actions

Region II Organization

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Victor McCree
Regional Administrator
Leonard Wert
Deputy Regional Administrator

Richard Croteau
Director Division of Reactor Projects
William Jones
Deputy Director

Joel Munday
Director Division of Reactor Safety
Chris Christensen
Deputy Director

Gerald McCoy
Branch Chief

North Anna
Resident Inspectors
James Reece - SRI
Rodney Clagg - RI

Project Engineers
Jim Dodson – SPE
Dan Arnett - PE

NRC Inspection Activities

North Anna Power Station
Units 1 & 2 for 2010

- 8775 hours of inspection and related activities
- 2 resident inspectors on site – resident inspectors perform inspections and walk through the plant every day
- 11 regional inspections
- 5 major team inspections
  - Operator Licensing Exams, Security, Emergency Preparedness, Radiation Protection, and a Reactive Special Inspection.

NRC Inspection Finding Example

North Anna Power Station

A finding was identified by the NRC for the licensee's failure to maintain the functionality of an internal flood protection feature which was installed to reduce core damage frequency based on evaluations performed for the plant. The licensee entered this problem in their corrective action program as condition reports 337066 and 339918.

North Anna Power Station PIs and Findings

January 1 through December 31, 2010

- Unit 1 - All Green Performance Indicators
- Unit 2 - One White Performance Indicator
- 19 Green inspection findings
- No White inspection findings

NRC Annual Assessment Summary

North Anna Power Station Units 1&2

- Virginia Electric and Power Company operated the plant safely and in a manner that preserved the public health and safety and protected the environment.
- Unit 1 was in the Licensee Response Column of the NRCs ROP Action Matrix for the last quarter of 2010.
- Unit 2 was in the Regulatory Response Column of the NRCs ROP Action Matrix for the last quarter of 2010.

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National Summary of Plant Performance

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Status as of 12/31/2010

Licensee Response	90
Regulatory Response	9
Degraded Cornerstone	5
Multiple/Repetitive Deg. Cornerstone	0
Unacceptable	0
Total	104

NRC Plan for 2011

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NRC plans to perform baseline inspections at the North Anna Power Station for the remainder of 2011, including:

- **Operator Licensing Exams**
- **IP 95001 Inspection for Unplanned Scram PI**
- **TI 2515/177 – Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal & Containment Spray System**
- **TI 2515/183 – Followup to Fukushima Daiichi Nuclear Station Fuel Damage Event**

Contacting the NRC

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- 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

Open to the Public

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- 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.

Nuclear Regulatory Commission
Region II
Atlanta, GA

April 4, 2011

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