



# **Robinson Nuclear Plant Regulatory Performance Meeting**

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Nuclear Regulatory Commission – Region II  
Hartsville, SC  
August 25, 2011

# **Level of Public Participation**

## Category 1 Meeting

The public is invited to observe the meeting and will have the opportunity to communicate with the NRC after the business portion of the meeting but before the meeting is adjourned. This plan does not preclude the licensee from responding to questions if it chooses to do so.

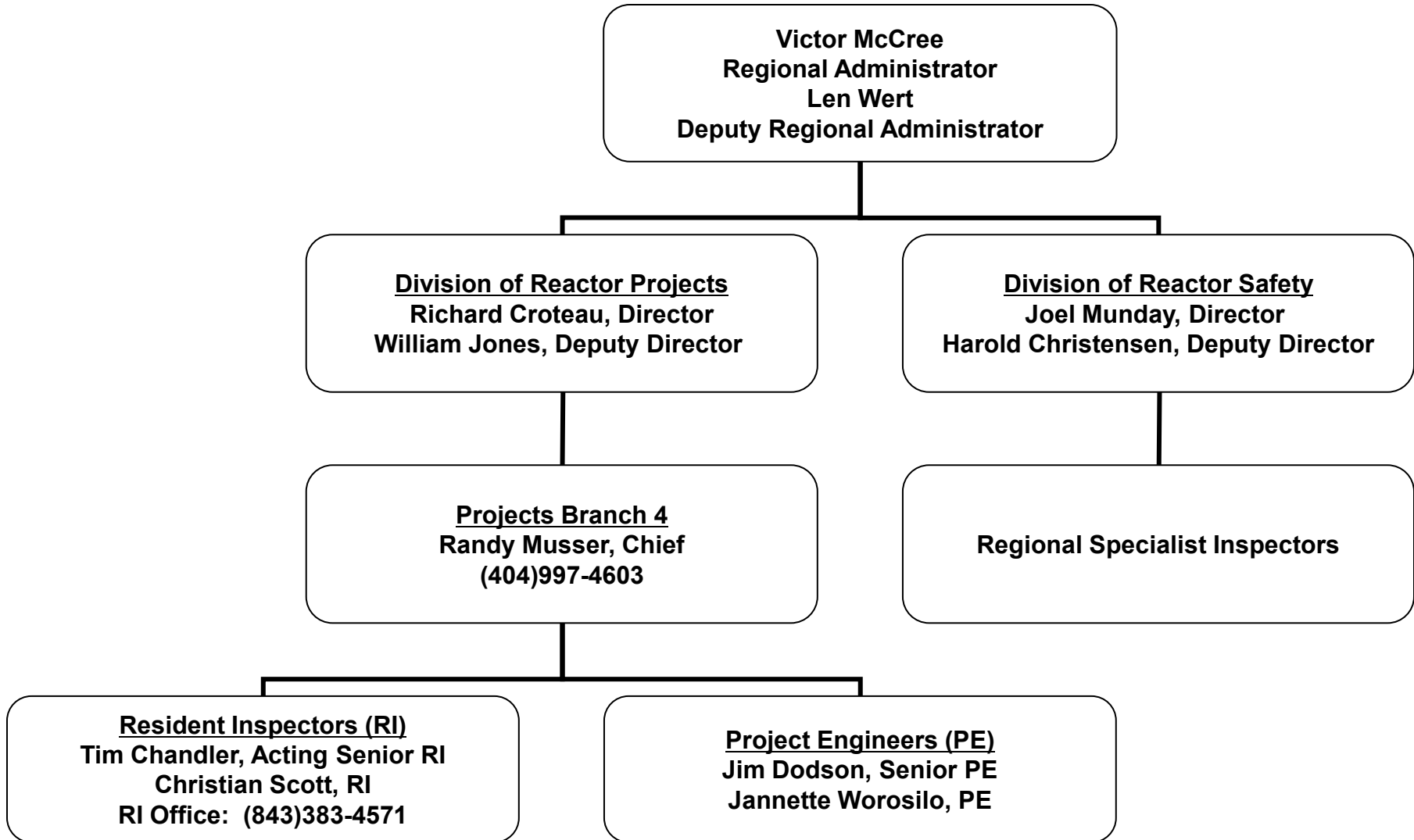
# Purpose of Today's Meeting

Provide a public forum in which to develop a shared understanding of the performance issues, underlying causes, and planned licensee actions for each safety-significant Action Matrix input.

# Agenda

- Introduction
- Overview of NRC Mission
- Review of Reactor Oversight Process
- Discussion of Plant Performance Results
- Licensee Discussion of Corrective Actions
- Results of 95001 and 95002 Supplemental Inspections
- NRC Follow-up Actions
- NRC Closing Remarks
- NRC available to address public questions

# RII Organization

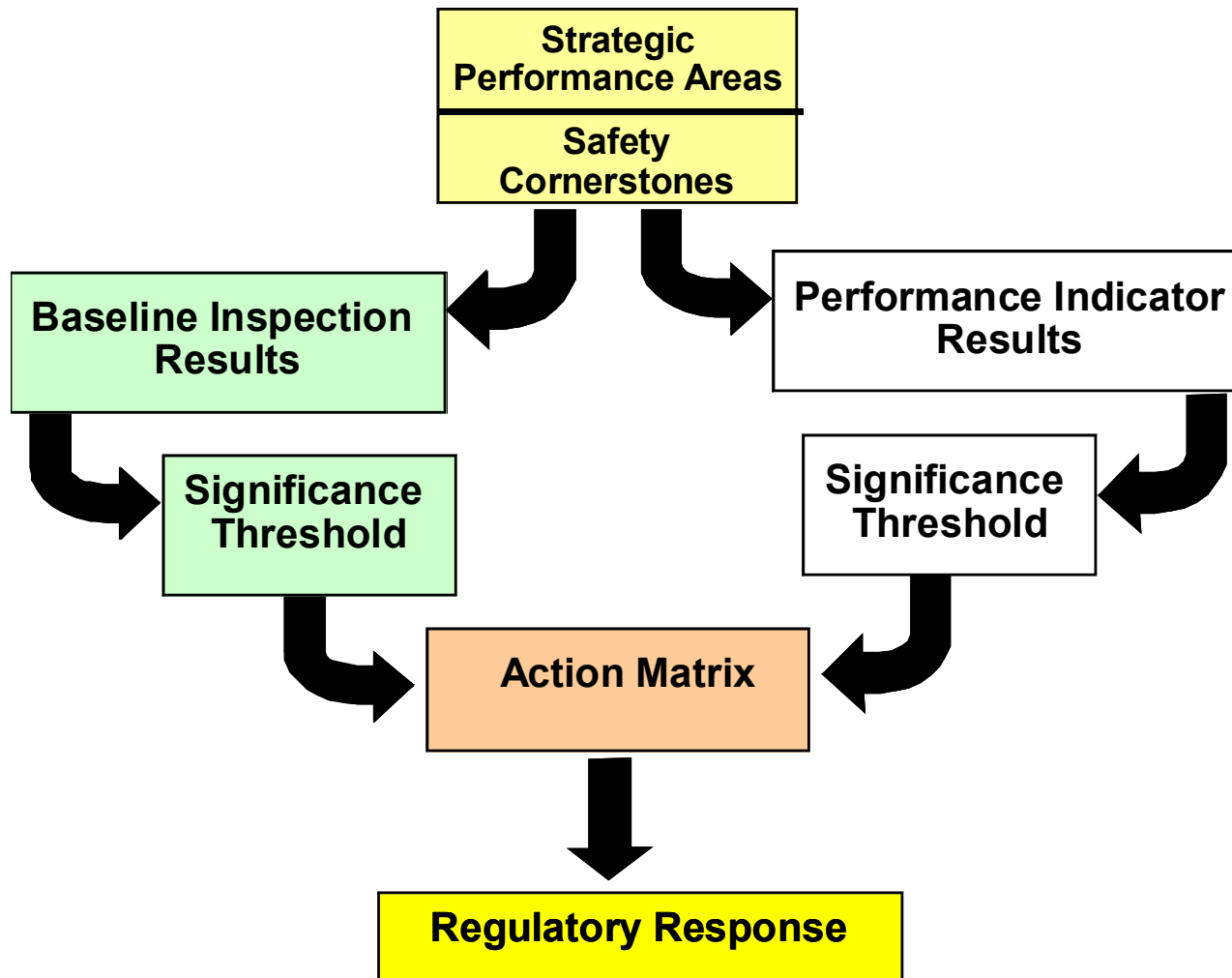


# NRC Mission

- 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.



# Reactor Oversight Process



# Significance Threshold

## 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



**Increasing Safety Significance**

**Increasing NRC Inspection Efforts**

**Increasing NRC/Licensee Management Involvement**

**Increasing Regulatory Actions**

# Operating Assessment

	3 <sup>rd</sup> Qtr 2010	4 <sup>th</sup> Qtr 2010	1 <sup>st</sup> Qtr 2011	2 <sup>nd</sup> Qtr 2011	3 <sup>rd</sup> Qtr 2011
Action Matrix Column	Degraded Cornerstone Column	Degraded Cornerstone Column	Degraded Cornerstone Column	Degraded Cornerstone Column	Regulatory Response Column
Basis	<u>Initiating Events</u>  White Performance Indicator - Unplanned Scrams  <u>Mitigating Systems</u>  White Finding – EDG Output Breaker  White Finding – Ops Training Requalification	<u>Initiating Events</u>  White Performance Indicator - Unplanned Scrams  <u>Mitigating Systems</u>  White Finding – EDG Output Breaker  White Finding – Ops Training Requalification  White Finding – Conduct of Ops	<u>Mitigating Systems</u>  White Finding – EDG Output Breaker  White Finding – Ops Training Requalification  White Finding – Conduct of Ops	<u>Mitigating Systems</u>  White Finding – EDG Output Breaker  White Finding – Ops Training Requalification  White Finding – Conduct of Ops	<u>Mitigating Systems</u>  White Finding – Conduct of Ops

# Assessment Results

## White Unplanned Scrams per 7000 Critical Hours Performance Indicator (3<sup>rd</sup> Quarter 2010)

- The licensee experienced unplanned reactor trips on the following dates: November 6, 2009, March 28, 2010, September 9, 2010, and October 7, 2010.

# Assessment Results

## Two White findings in the 3<sup>rd</sup> quarter of 2010 and One White finding in the 4<sup>th</sup> quarter of 2010

- Licensee's failure to correct a condition adverse to quality in "B" Emergency Diesel Generator output breaker 52/27B.
- Licensee's failure to adequately design and implement operator training based on learning objectives as required by 10 CFR 55.59(c), in that training lesson material failed to identify the basis of a procedural action involving reactor coolant pump seal cooling in licensee procedure PATH-1, as required by the definition of systems approach to training, Element 3 in 10 CFR 55.4.

# Assessment Results

- Licensee's failure to adequately implement requirements of multiple procedures required by Technical Specification 5.4.1, during an uncontrolled cool down of the Reactor Coolant System and subsequent safety injection after a reactor trip on March 28, 2010.

# **PROGRESS ENERGY DISCUSSION OF CORRECTIVE ACTIONS**

# 95001 Supplemental Inspection

- Response per Action Matrix
  - Performed due to One White performance indicator in the Initiating Events Cornerstone
  - Completed March 25, 2011
  - Documented in NRC Inspection Report 05000261/2011009

# 95001 Supplemental Inspection

- Inspection Objectives
  - Understand root and contributing causes
  - Assure sufficient corrective actions
  - Review licensee's extent of condition and cause



# 95001 Supplemental Inspection

- Conclusions
  - Licensee evaluations were sufficiently comprehensive
  - Licensee corrective actions were appropriate

# 95002 Supplemental Inspection

- Response per Action Matrix
  - Performed due to Three White Findings in the Mitigating Systems Cornerstone
  - Completed June 9, 2011
  - Documented in NRC Inspection Report 05000261/2011010

# 95002 Supplemental Inspection

- Inspection Objectives
  - Understand root and contributing causes
  - Assure sufficient corrective actions
  - Independent review of extent of condition and cause
  - Assessment of safety culture contribution

# 95002 Supplemental Inspection

- Conclusions
  - Licensee evaluations were sufficiently comprehensive
  - Licensee evaluations appropriately considered safety culture components
  - Licensee corrective actions were appropriate

# Assessment Summary

- Based on the results of 95002 inspection, the three White findings were closed
  - One of the findings can still be considered for agency actions until September 30, 2011
- Robinson Unit 2 is in the Regulatory Response Column of the Action Matrix as of July 1, 2011

# **NRC Follow-up Actions**

- NRC will review the licensee's 95001 and 95002 corrective actions
  - Operations Inspector will review implementation of two-column format EOPs (4<sup>th</sup> quarter 2011)
  - An additional inspector will be added to the Problem Identification and Resolution Inspection (May 2012)
  - NRC resident inspector baseline inspections (ongoing)

# Open to the Public

- Questions?
- NRC places a high priority on keeping the public and stakeholders informed of its activities.
- At [www.nrc.gov](http://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.