

Sequoyah Nuclear Plant Annual Assessment Meeting

Reactor Oversight Process - CY 2003



Nuclear Regulatory Commission - Region II
April 21, 2004

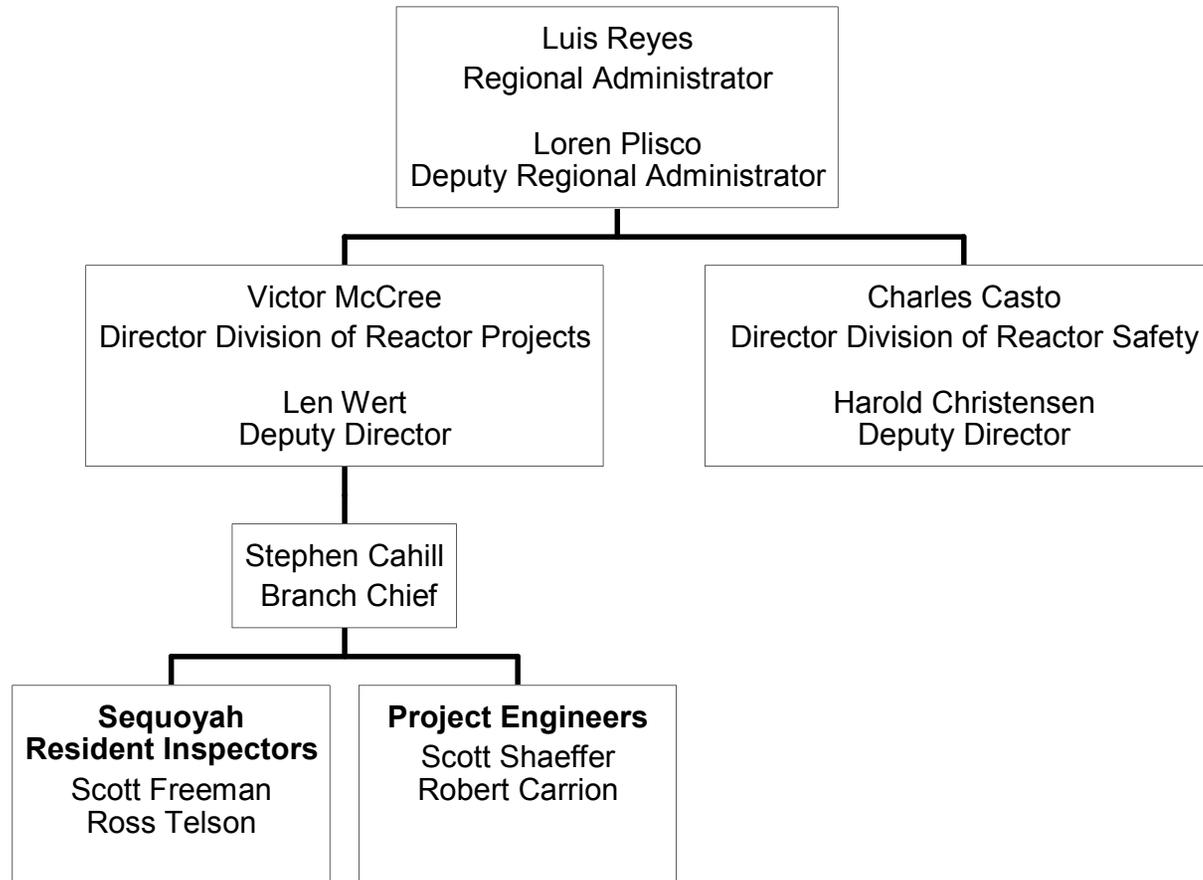
Purpose of Today's Meeting

- A public forum for discussion of the licensee's performance
- NRC will address the licensee performance discussed in the annual assessment letter
- Licensee can respond to the information in the letter and inform the NRC of new or existing programs to maintain or improve their performance

Agenda

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

Region II Organization



NRC Performance Goals

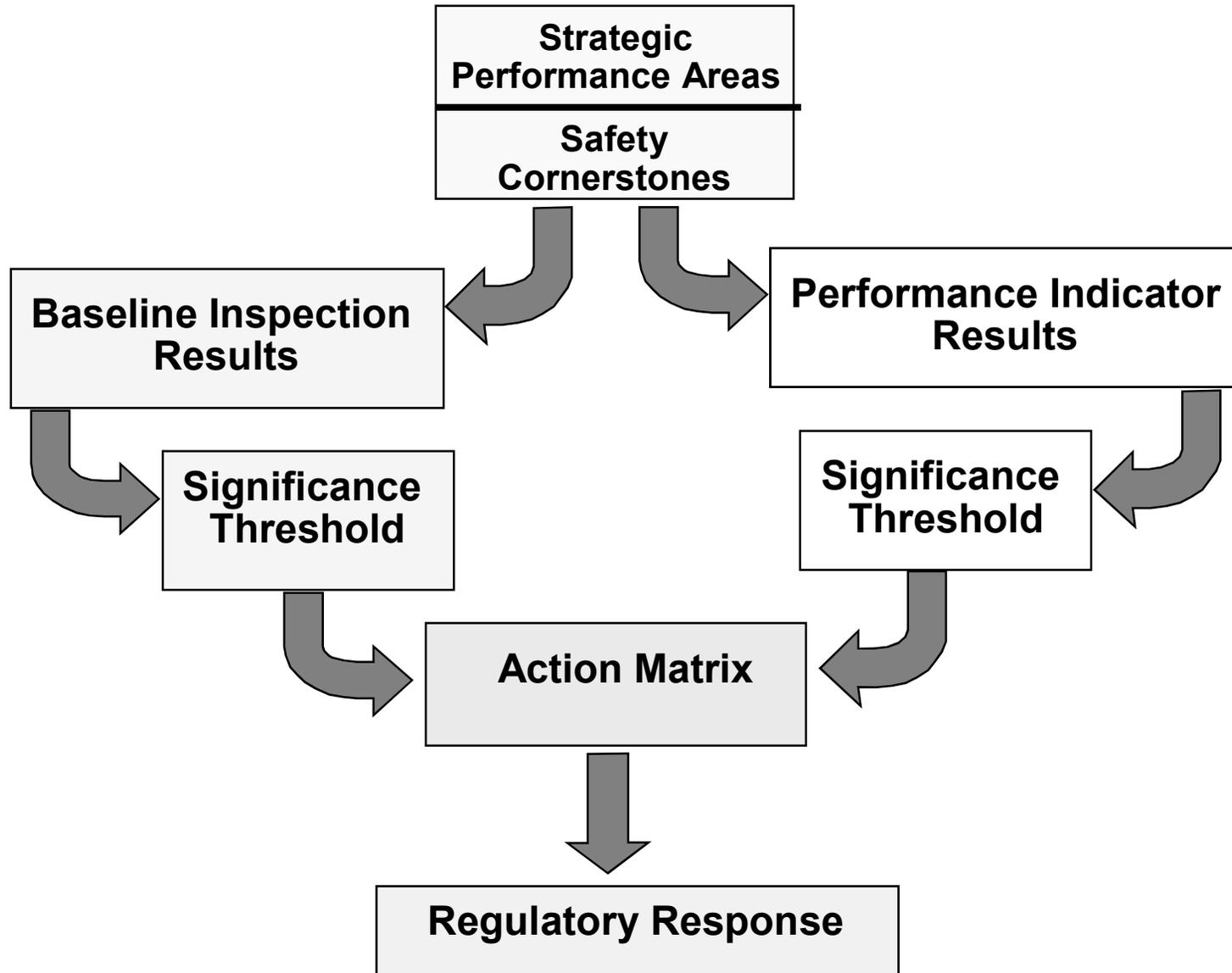
PRIMARY GOAL

**MAINTAIN SAFETY AND PROTECT
THE ENVIRONMENT**

OTHER GOALS

- Enhance public confidence
- Improve effectiveness, efficiency, and realism of processes and decision making
- Reduce unnecessary regulatory burden

Reactor Oversight Process



Examples of Baseline Inspections

- Equipment Alignment ~92 hrs/yr
- Triennial Fire Protection ~200 hrs every 3 yrs
- Operator Response ~125 hrs/yr
- Emergency Preparedness ~80 hrs/yr
- Rad Release Controls ~100 hrs every 2 yrs
- Worker Radiation Protection ~100 hrs/yr
- Corrective Action Program ~250 hrs every 2 yrs
- Corrective Action Case Reviews ~60 hrs/yr

Performance Threshold

Safety Significance

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

NRC Inspection Efforts

- Green:** Only Baseline Inspection
White: May increase NRC oversight
Yellow: Increased NRC oversight
Red: Increased NRC oversight and other
NRC actions

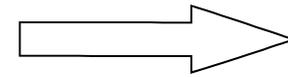
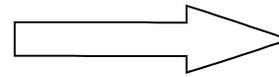
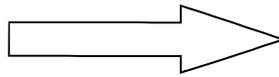
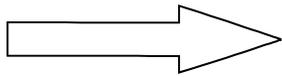
National Summary

- Performance Indicator Results (at end of CY 2003)
 - ▶ **Green** 1825
 - ▶ **White** 15
 - ▶ **Yellow** 0
 - ▶ **Red** 0

- Total Inspection Findings (CY 2003)
 - ▶ **Green** 748
 - ▶ **White** 9
 - ▶ **Yellow** 2
 - ▶ **Red** 1

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

National Summary of Plant Performance

Status at End of CY 2003

Licensee Response	75
Regulatory Response	22
Degraded Cornerstone	2
Multiple/Repetitive Degraded Cornerstone	3
Unacceptable	0

Total Units 102*

*Davis-Besse is under a special restart oversight process

Sequoyah Nuclear Plant 2003 Inspection Activities

Approximately 5000 hours of inspection related activities includes resident inspectors plus:

- Engineering modification and design inspection
- Security inspections
- Radiation protection inspections
- Problem Identification and Resolution Program
- Reactor pressure vessel lower penetration inspection
- Refueling outage and reactor head penetration inspection
- Steam Generator Replacement inspections
- Operator requalification inspection
- ISFSI construction inspection
- Supplemental inspection for unplanned scrams
- Two Event response inspections for: a Unit 1 trip in August 2003/ a security issue

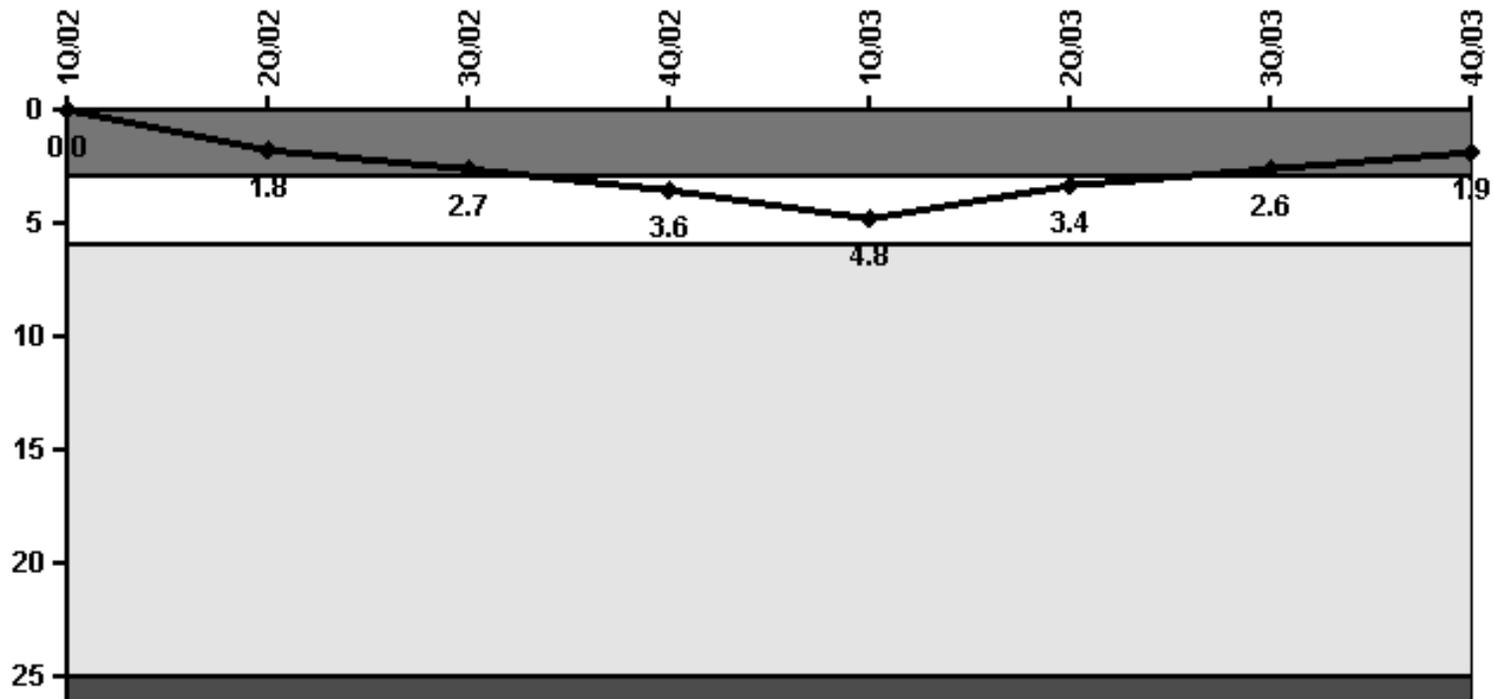
Sequoyah Nuclear Plant Assessment Results

January 1- December 31, 2003

- All inspection findings were classified as very low safety significance (Green)
- All PIs were Green at the end of the period for both units with the exception of Unit 2, which had white one PI (unplanned scrams per 7000 critical hours) in the initiating events cornerstone during the first half of the period
- TVA operated Sequoyah Nuclear Plant in a manner that preserved public health and safety

Sequoyah Unit 2 PI

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Sequoyah Nuclear Plant Annual Assessment Summary

January 1- December 31, 2003

- All cornerstone objectives were met
- We completed a supplemental Inspection in July 2003 for the white PI. The PI returned to Green in the 3rd quarter of 2003
- Plant performance was in the Licensee Response Column of the NRC's Action Matrix at the end of the period for both units.

Sequoyah Nuclear Plant 2004 Inspection Activities

- NRC plans normal baseline inspections at Sequoyah for the remainder of the assessment period

Additional planned inspections (outside ROP):

- Reactor containment sump blockage inspection
- Reactor pressure vessel lower head penetration inspection
- Spent Fuel Material Control and accountability inspection
- (ISFSI) Independent Spent Fuel Storage Installation construction and testing inspections

Licensee Response and Remarks

Sequoyah Nuclear Plant
TVA

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

- 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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