

**NRC Annual Performance Assessment
of
Susquehanna Steam Electric Station**

2006 Reactor Oversight Program



U.S. NRC

UNITED STATES NUCLEAR REGULATORY COMMISSION

Protecting People and the Environment

Purpose of Today's Meeting

- NRC will address Susquehanna's performance as described in the annual assessment letter
- Susquehanna will be given the opportunity to respond to the information in the letter and inform the NRC of new or existing programs to maintain or improve their performance
- NRC will be available to engage interested stakeholders on performance of the plant and our role in ensuring safe plant operations

Agenda

- Introduction and NRC Organization
- Review of NRC Reactor Oversight Process
- Regulatory Summary of National Plant Performance
- NRC Assessment of Susquehanna's Performance Results
- Susquehanna Response and Remarks
- NRC Closing Remarks
- Break
- NRC available to address public questions

Region I Organization

Samuel J. Collins
Regional Administrator

Marc L. Dapas
Deputy Regional Administrator

David C. Lew
Director Division of Reactor Projects

James W. Clifford
Deputy Director

Paul Krohn
Branch Chief

PPL Susquehanna
Resident Inspectors
Alan Blamey - SRI
Fred Jaxheimer - RI

Project Engineers
Roy Fuhrmeister - Senior SPE
Thomas Setzer - PE

A. Randolph Blough
Director Division of Reactor Safety

Marsha K. Gamberoni
Deputy Director

Regional Specialists

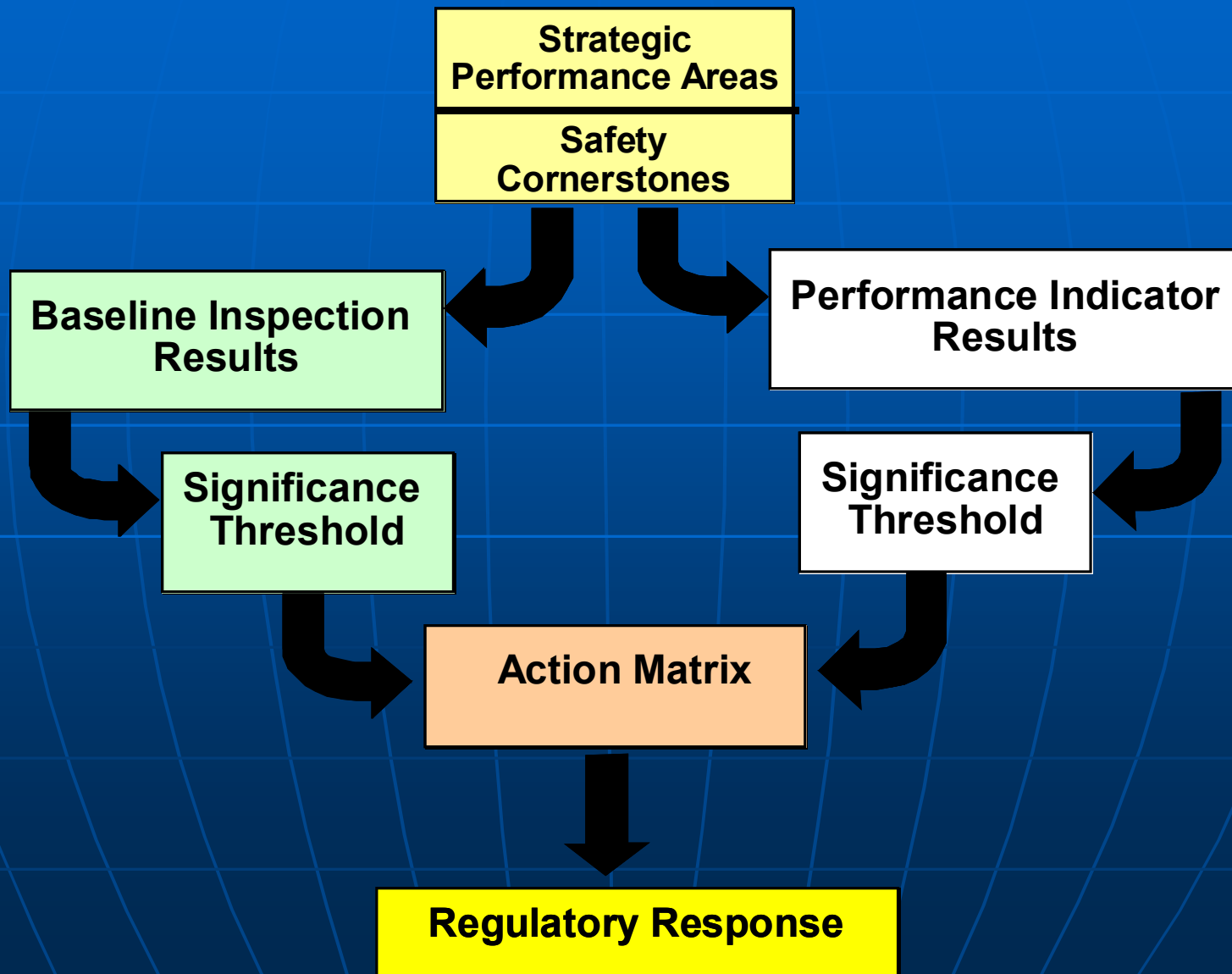
NRC Representatives

- David C. Lew, Director, Division Reactor Projects (DRP)
 - (610) 337-5229
- James W. Clifford, Deputy Division Director, DRP
 - (610) 337-5080
- Paul Krohn, Branch Chief
 - (610) 337-5120
- Rich Guzman, Project Manager, NRR
 - (301) 415-1030
- Alan Blamey, Senior Resident Inspector
 - (570) 542-2134
- Fred Jaxheimer, Resident Inspector
 - (570) 542-2134
- Roy Fuhrmeister, Senior Project Engineer
 - (610) 337-5059

NRC Performance Goals

- Safety: Ensure protection of the public health and safety and the environment
- Security: Ensure the secure use and management of radioactive materials
- Openness: Ensure openness in our regulatory process
- Effectiveness: Ensure that NRC actions are effective, efficient, realistic, and timely
- Management: Ensure excellence in agency management to carry out the NRC's strategic objectives

Reactor Oversight Process



Typical Baseline Inspection Areas

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

Significance Threshold

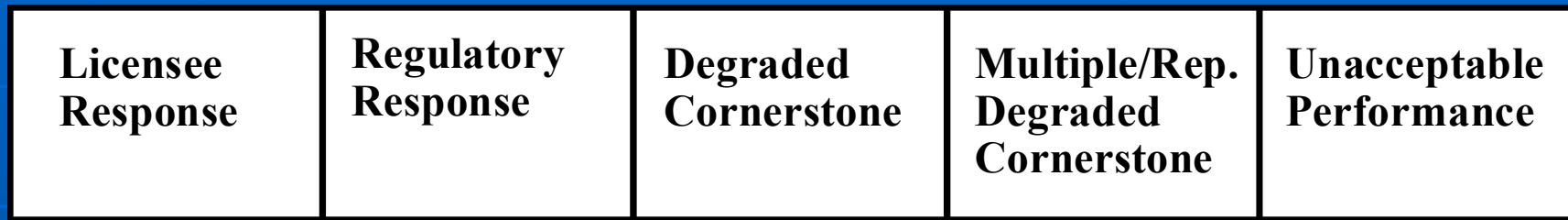
Performance Indicators

- Green:** Only Baseline Inspection
- White:** May increase NRC oversight
- Yellow:** Requires more NRC oversight
- Red:** Requires more NRC oversight

Inspection Findings

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

Action Matrix Concept



Increasing Safety Significance

Increasing NRC Inspection Efforts

Increasing NRC/Licensee Management Involvement

Increasing Regulatory Actions

Regulatory Summary of National Plant Performance

Status at End of 2006

Licensee Response	73
Regulatory Response	21
Degraded Cornerstone	5
Multiple/Repetitive Degraded Cornerstone	4
Unacceptable	0
<hr/> Total	<hr/> 103

National Summary

- Performance Indicator Results (at end of 2006)

▶ Green	1635
▶ White	11
▶ Yellow	0
▶ Red	0

- Total Inspection Findings (2006)

▶ Green	676
▶ White	19
▶ Yellow	3
▶ Red	3

Susquehanna Inspection Activities

(Jan 1 - Dec 31, 2006)

- 5275 hours of inspection and assessment related activities
- 2 resident inspectors assigned to the site
- 11 regional inspections
- 3 team inspections

Susquehanna Inspection Activities

(Jan 1 - Dec 31, 2006)

- Daily Resident Inspections
- Completed a Problem Identification and Resolution (PI&R) Team Inspection
- Completed a Plant Modifications Team Inspection

Susquehanna Assessment Results

(Jan 1 - Dec 31, 2006)

- PPL operated Susquehanna in a manner that preserved public health and safety
- All cornerstone objectives were met
- Susquehanna was in the licensee response column of the Action Matrix for all of 2006
- All performance indicators were green (very low safety significance) in 2006
- Fifteen green inspection findings were identified during 2006
- NRC plans baseline inspections for 2007

Susquehanna

Sample Inspection Findings

- Inadequate work instructions for the disassembly and inspection of In-service Test check valves
- Inadequate design review of the Power Range Neutron Monitoring System modification resulted in an automatic reactor shutdown
- Inadequate corrective actions for Reactor Protection System Electrical Protective Assembly circuit breaker failures

Licensee Response and Remarks

Mr. Britt McKinney
Senior Vice President
PPL Susquehanna, LLC

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 “Public Meetings and Involvement”
- Paul G. Krohn, Branch Chief
 - ▶ pgk1@nrc.gov

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)