

Memo to the File - May 25, 2010

**NRC Slides for Susquehanna
Annual Assessment Meeting,
April 2010**



Susquehanna Steam Electric Station Annual Assessment Meeting

2009 Reactor Oversight Process
Nuclear Regulatory Commission - Region 1

NRC Strategic Plan 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

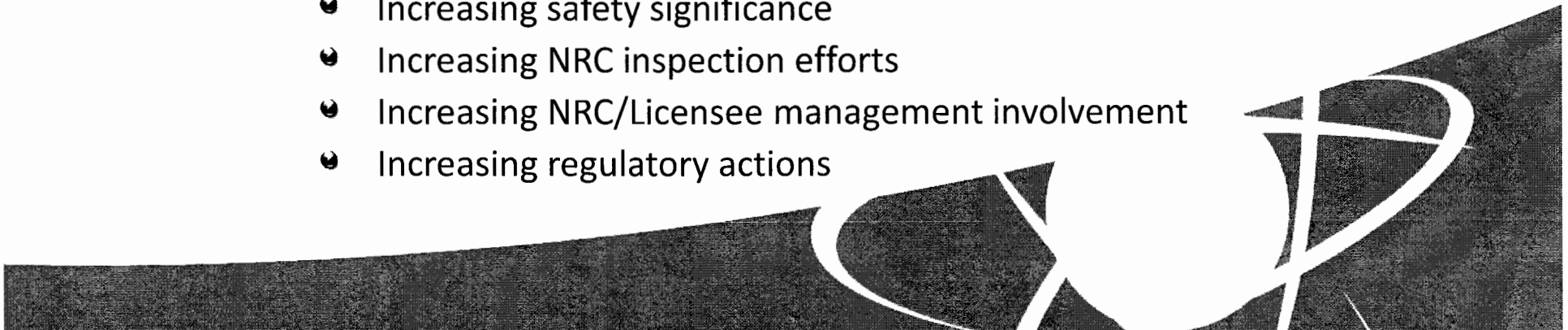


NRC Action Matrix

Licensee Response	Regulatory Response	Degraded Cornerstone	Multiple Repetitive Degraded Cornerstone	Unacceptable Performance
All Inputs are Green; Cornerstone Objectives Fully Met	1 or 2 White Inputs; Cornerstone Objectives Fully Met	2 White or 1 Yellow Input; Cornerstone Objectives Met w/ Moderate Degradation in Safety Performance	Multiple Yellow Inputs or 1 Red Input; Cornerstone Objectives Met w/ Significant Degradation in Safety Performance	Overall Unacceptable Performance; Plants not permitted to Operate w/in this Column; Unacceptable Margin to Safety



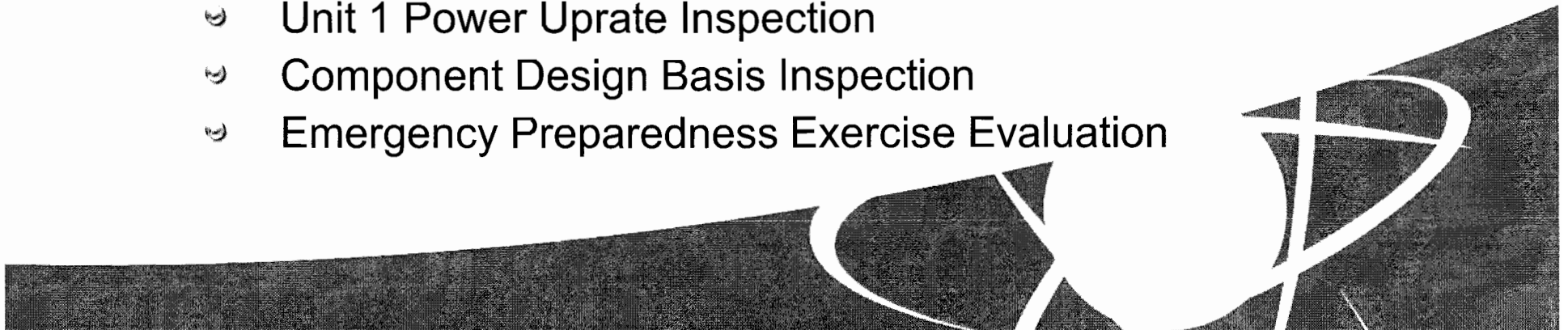
- Increasing safety significance
- Increasing NRC inspection efforts
- Increasing NRC/Licensee management involvement
- Increasing regulatory actions



NRC Annual Assessment Summary

Susquehanna for 2009

- PPL operated the plant safely and in a manner that preserved the public health and safety and protected the environment.
- Susquehanna was in the Licensee Response column of the NRC's Action Matrix during 2009.
- NRC plans baseline inspections at Susquehanna for the remainder of 2010. This includes:
 - Unit 1 Power Uprate Inspection
 - Component Design Basis Inspection
 - Emergency Preparedness Exercise Evaluation



NRC Inspection Activities



Susquehanna for 2009

- 6556 hours of inspection and related activities
- 2 resident inspectors on site
- 13 regional inspections
- 2 major team inspections
 - Plant Modifications
 - Emergency Planning Program
- Focused inspections on Power Uprate and SCWE activities.



Significance Threshold

Performance Indicators

- Baseline Inspection
- White Requires additional NRC oversight
- Requires more NRC oversight
- Red Requires most NRC oversight

Inspection Findings

- Very low safety significant issue
- White Low to moderate safety significant issue
- Substantial safety significant issue
- Red High safety significant issue



Susquehanna Pls and Findings

January 1 through December 31, 2009



- All Green Performance Indicators
- 9 Green NRC-identified inspection findings.
Examples:
 - Inadequate Corrective Actions Result in a Repeat Failure of Unit 1 High Pressure Coolant Injection Turbine Stop Valve
 - Inadequate Evaluation of Safety Relief Valve Failures
- No White inspection findings



NRC Actions for 2009

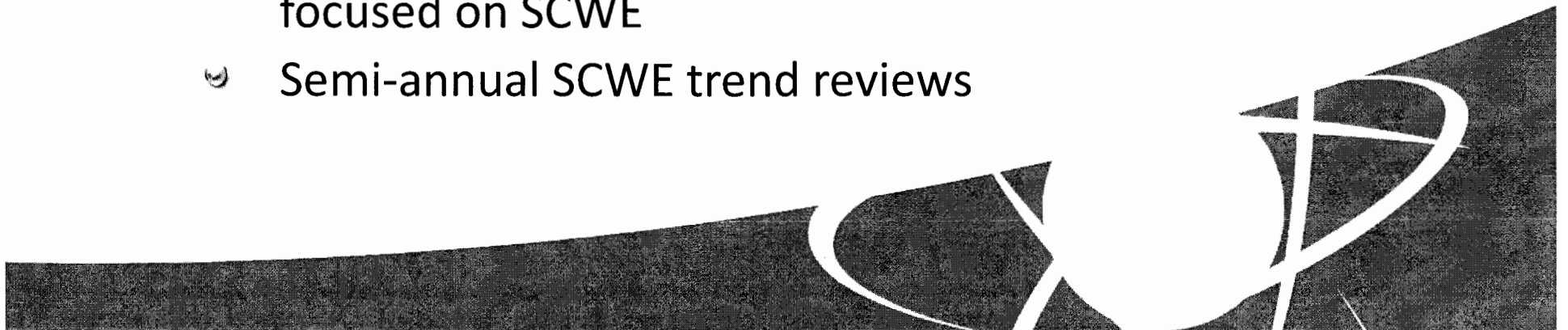


- NRC actions in response to issuance of potential Chilling Effect Letter regarding the Safety Conscious Work Environment at Susquehanna
 - ☛ NRC Management conducted several site visits and meetings with PPL
 - ☛ Public meeting on July 6, 2009
 - ☛ Safety Conscious Work Environment & Chilling Effect Problem Identification and Resolution Sample
 - ☛ Review of SCWE action plan
 - ☛ Review of Root Cause Assessment
 - ☛ Review of SCWE Corrective Actions
 - ☛ Review of 2009 Safety Culture Survey
 - ☛ Semi-annual work environment trend reviews
 - ☛ Review of SCWE metrics

NRC Planned Actions for 2010



- NRC planned actions for 2010 in response to issuance of Potential Chilling Effect Letter regarding SCWE
 - Continued NRC Management site visits and meetings with PPL
 - Biennial Problem Identification & Resolution team inspection
 - Quarterly Problem Identification & Resolution samples focused on SCWE
 - Semi-annual SCWE trend reviews

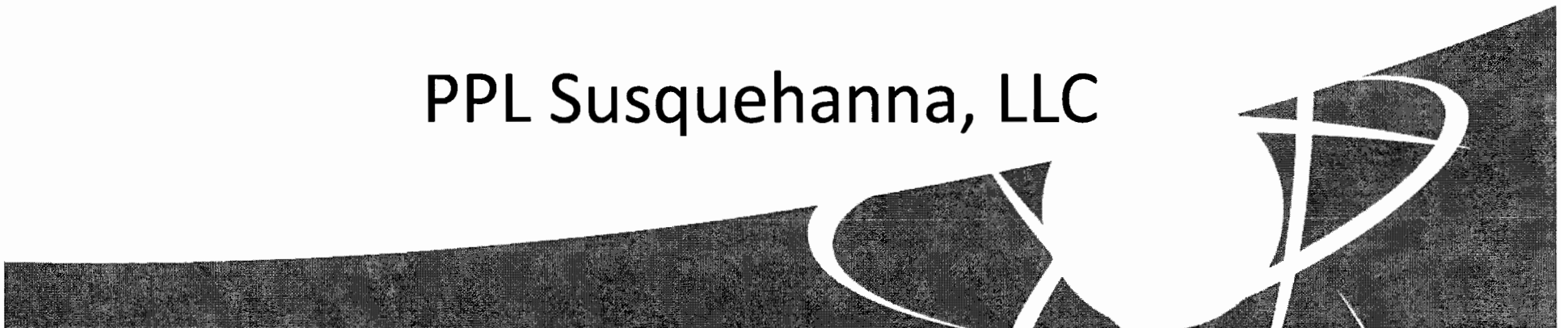


PPL Response and Remarks

Timothy S. Rausch

Senior Vice President and Chief Nuclear
Officer

PPL Susquehanna, LLC



End of Presentation

Nuclear Regulatory Commission

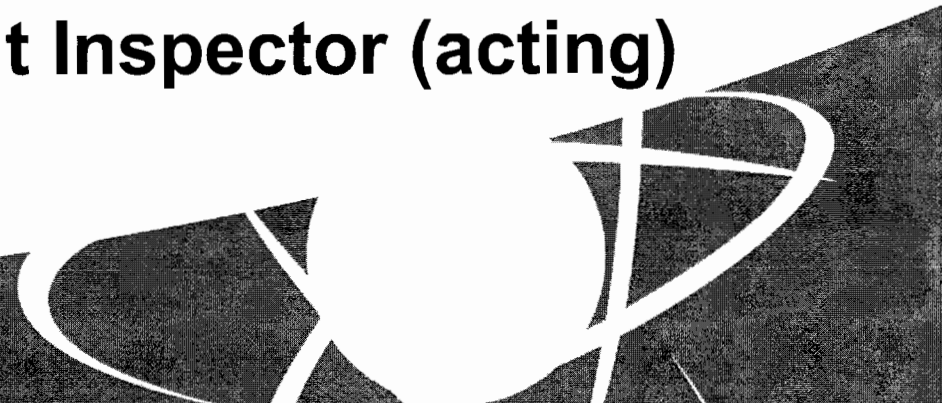
Region I

King of Prussia, PA

April 27, 2010

NRC Representatives

- **David Lew, Director, Division of Reactor Projects**
 - **(610) 337-5229**
- **Paul G. Krohn, Branch Chief, DRP**
 - **(610) 337-5120**
- **Patrick Finney, Senior Resident Inspector**
 - **(570) 542-2134**
- **Edgar Torres, Resident Inspector (acting)**
 - **(570) 542-2134**



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” or “Contact Us” 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)

