



Peach Bottom Atomic Power 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

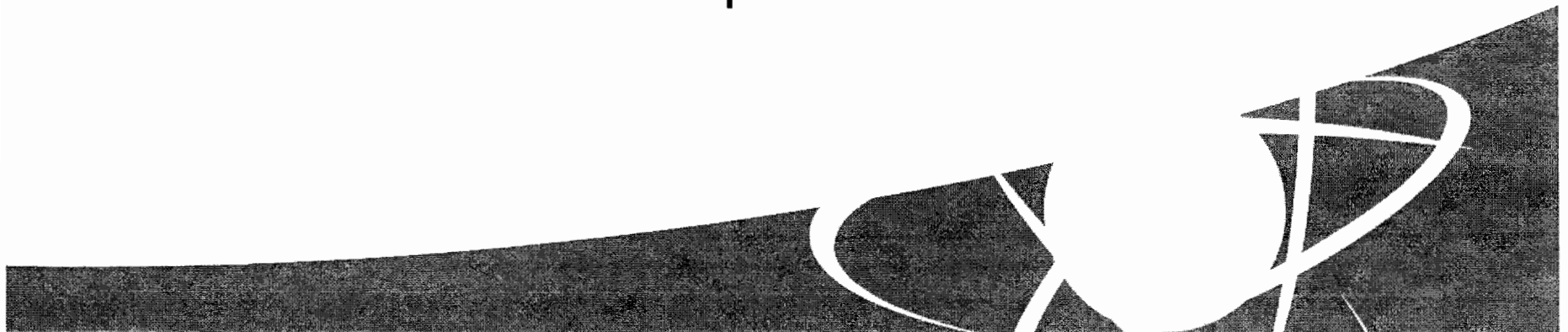


NRC Annual Assessment Summary

Peach Bottom Atomic Power Station



- Exelon operated the plant safely and in a manner that preserved the public health and safety and protected the environment.
- Peach Bottom was in the Licensee Response column of the NRC's Action Matrix for the last quarter of 2009.

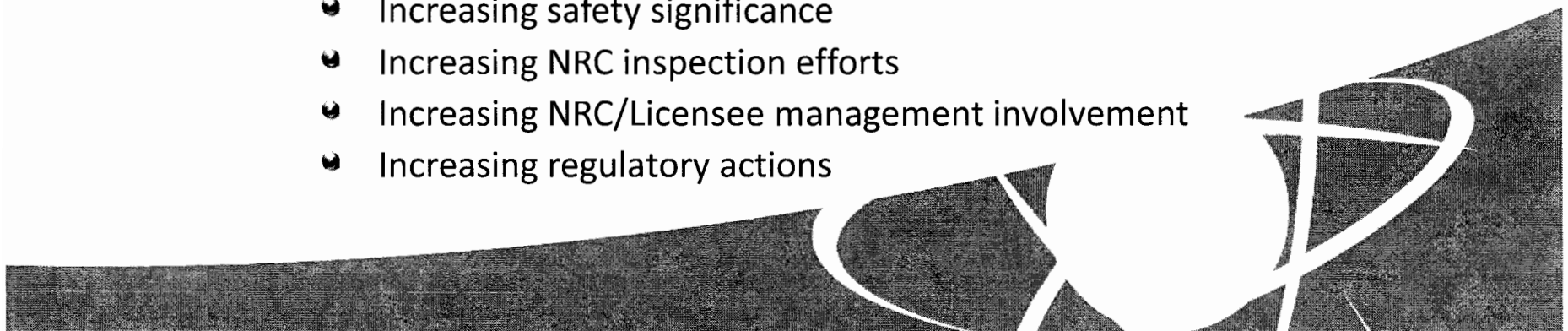


NRC Action Matrix

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 Inspection Activities



Peach Bottom for 2009

- 5866 hours of inspection and related activities
- 2 resident inspectors on site
- 17 regional inspections
- 3 major team inspections
 - PI&R Biennial Team
 - Initial Operator Licensing Exam
 - Triennial Fire Protection Team



Peach Bottom Pls and Findings

January 1 through December 31, 2009



- All Green Performance Indicators
- 13 Green / Severity Level IV Inspection Findings
- No Greater than Green Inspection Findings



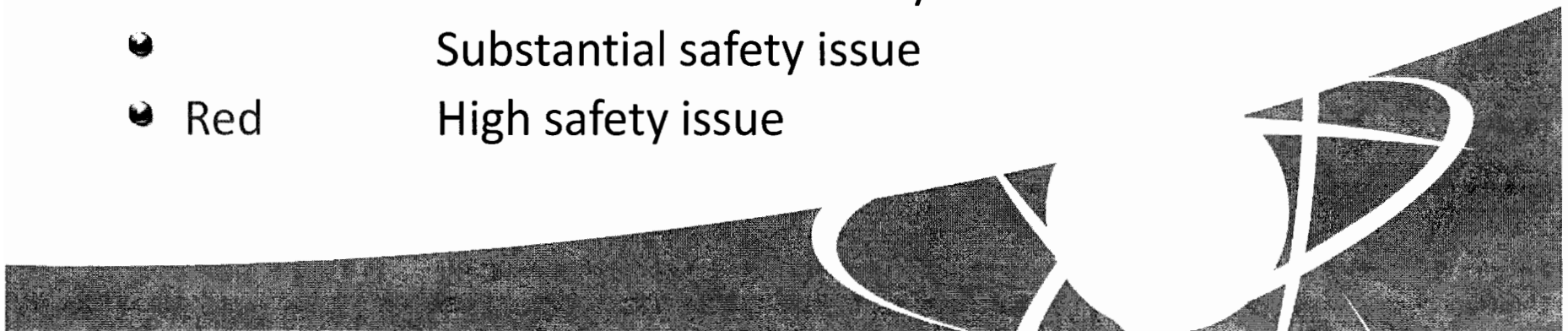
Significance Threshold

Performance Indicators

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

Inspection Findings

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

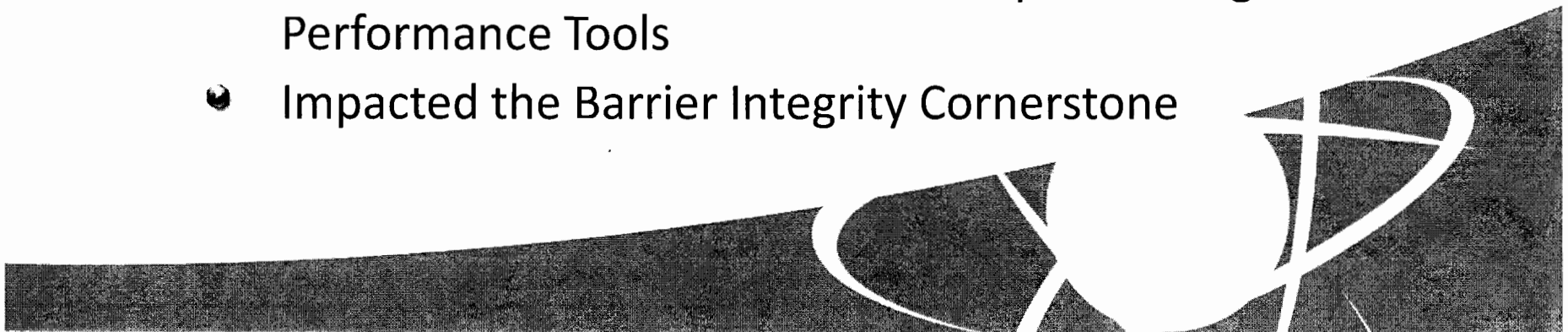


NRC Inspection Findings

Peach Bottom Atomic Power Station



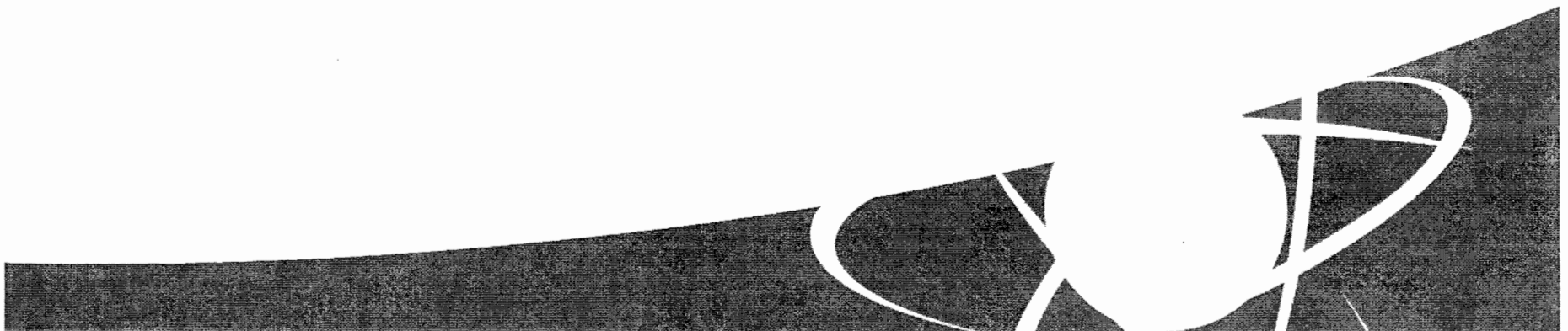
- Inadequate Valve Lubrication Affected the Reliability of Multiple Safety-Related Valves (Green)
 - Inadequate Procedural Guidance to Establish Effective Preventive Maintenance
 - Impacted the Mitigating System Cornerstone
- Multiple Fuel Handling Errors During Refueling Outage (Green)
 - Failure to Follow Procedures for Implementing Human Performance Tools
 - Impacted the Barrier Integrity Cornerstone



NRC Plans for 2010



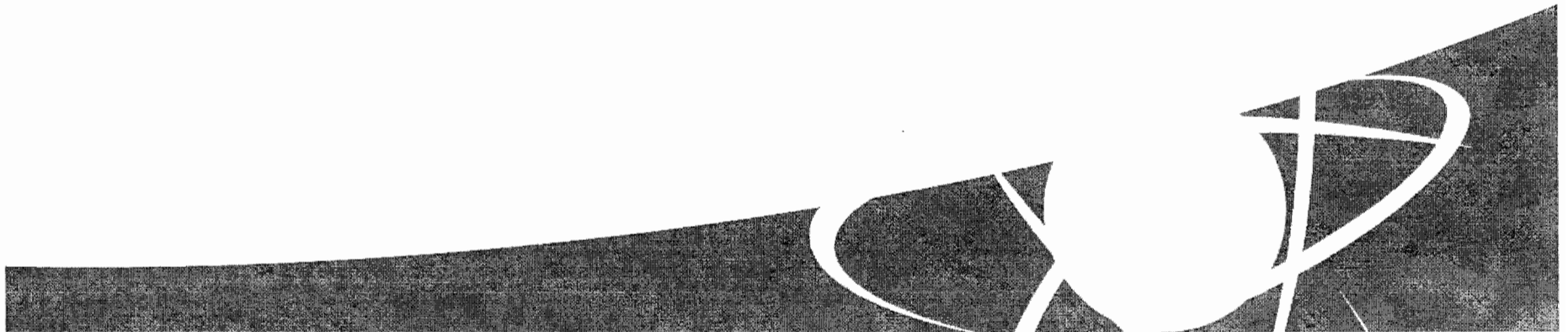
- NRC plans baseline inspections at Peach Bottom for the remainder of 2010. This includes:
 - Permanent Plant Modifications
 - EP Exercise Evaluation



Exelon Response and Remarks

William Maguire

Site Vice President, PBAPS



End of Presentation

Nuclear Regulatory Commission

Region 1

King of Prussia, PA

April 19, 2010