Three Mile Island, Unit 1
Annual Assessment Meeting

Reactor Oversight Program - CY 2004

Nuclear Regulatory Commission - Region 1

King of Prussia, PA

April 13, 2005

Agenda

- Introductions
- Review of Reactor Oversight Process
- National Summary of Plant Performance
- Discussion of Plant Performance Results
- AmerGen Response and Remarks
- NRC Closing Remarks
- Break
- NRC available to address public questions

Purpose of Today's Meeting

- NRC will address licensee performance as identified in our annual assessment
- AmerGen will respond to our assessment and inform the NRC of new or existing programs to maintain or improve performance
- NRC comments on security, public involvement
- NRC will respond to questions from the public after the discussion with AmerGen

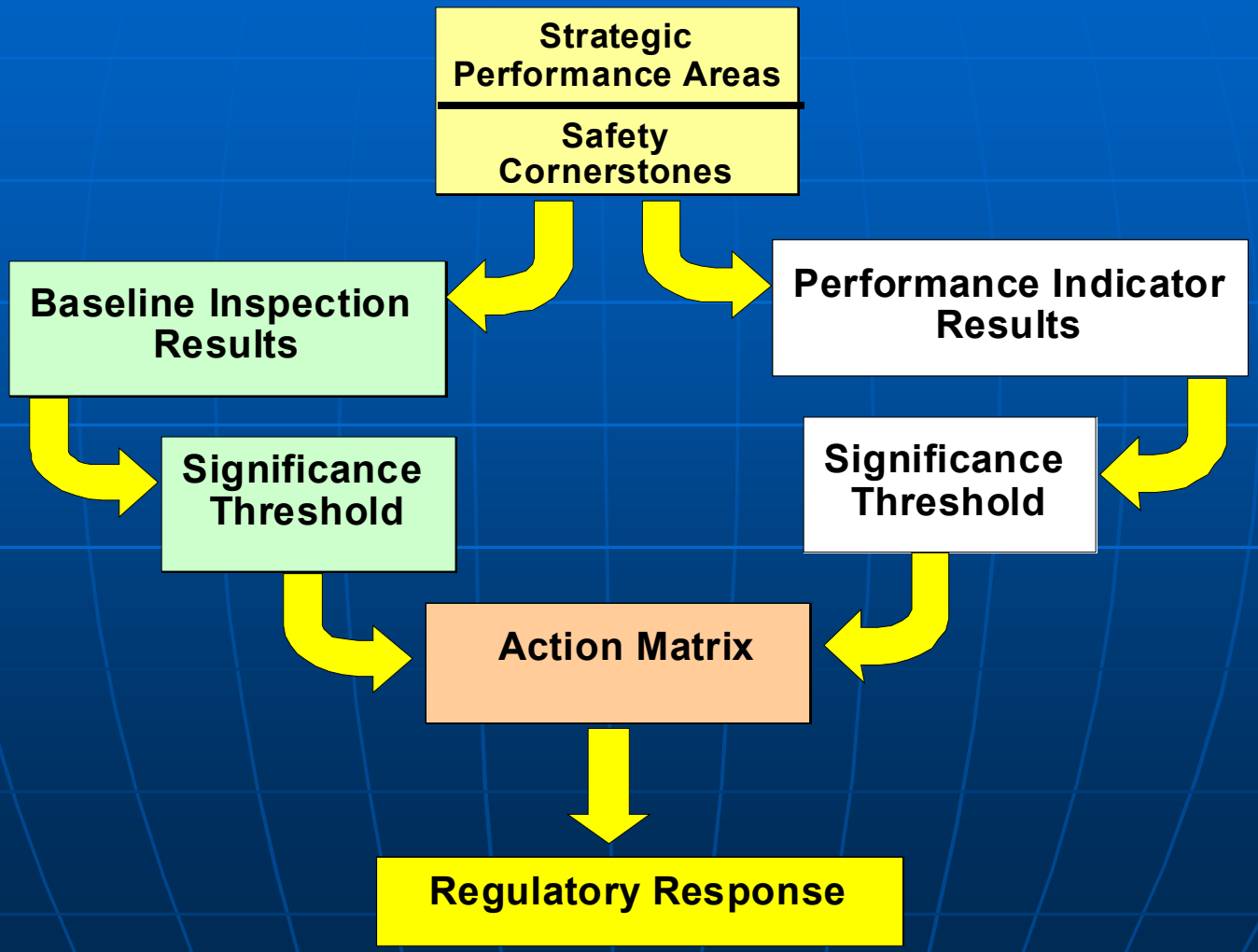
NRC Representatives

- Randy Blough, Director
  Division of Reactor Projects
  – (610) 337-5229
- Arthur Burritt, Acting Branch Chief
  – (610) 337-5069
- David Kern, Senior Resident Inspector
  – (717) 948-1165
- Javier Brand, Resident Inspector
  – (717) 948-1165

NRC Performance Goals

- Safety: Ensure protection of public health and safety and the environment
- Security: Enhance 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 objective

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

Significance Threshold

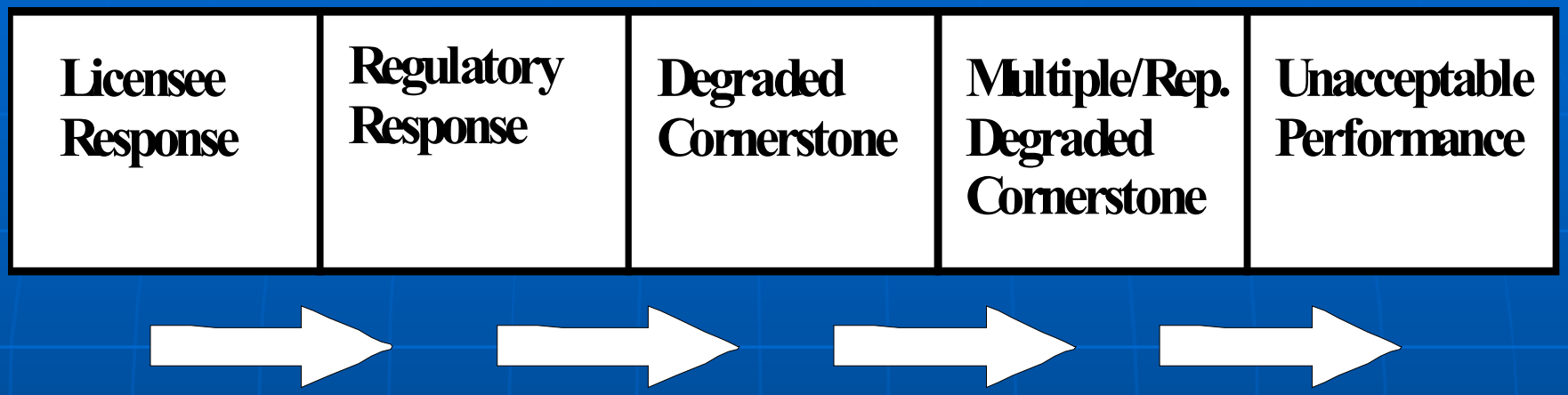
Performance Indicators

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

National Summary of Plant Performance

Status at End of CY 2004

Licensee Response	78
Regulatory Response	21
Degraded Cornerstone	0
Multiple/Repetitive Degraded Cornerstone	3
Unacceptable	0

Total Units 102*

*Davis-Besse is in IMC 0350 process

National Summary

Performance Indicator Results (at end of CY 2004)

Green	1834
White	6
Yellow	0
Red	0

Total Inspection Findings (CY 2004)

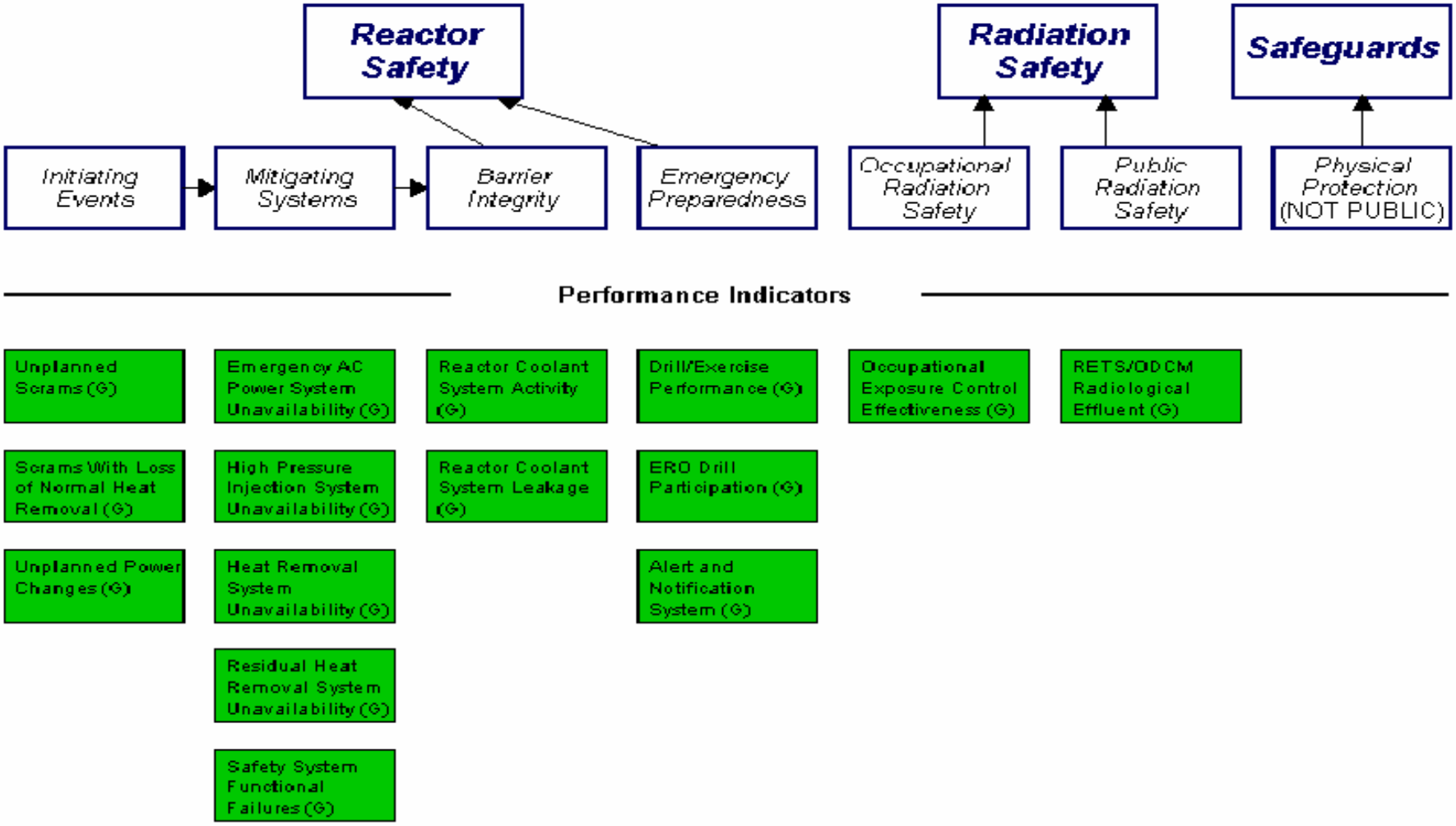
Green	778
White	11
Yellow	0
Red	0

Three Mile Island, Unit 1 Assessment Results

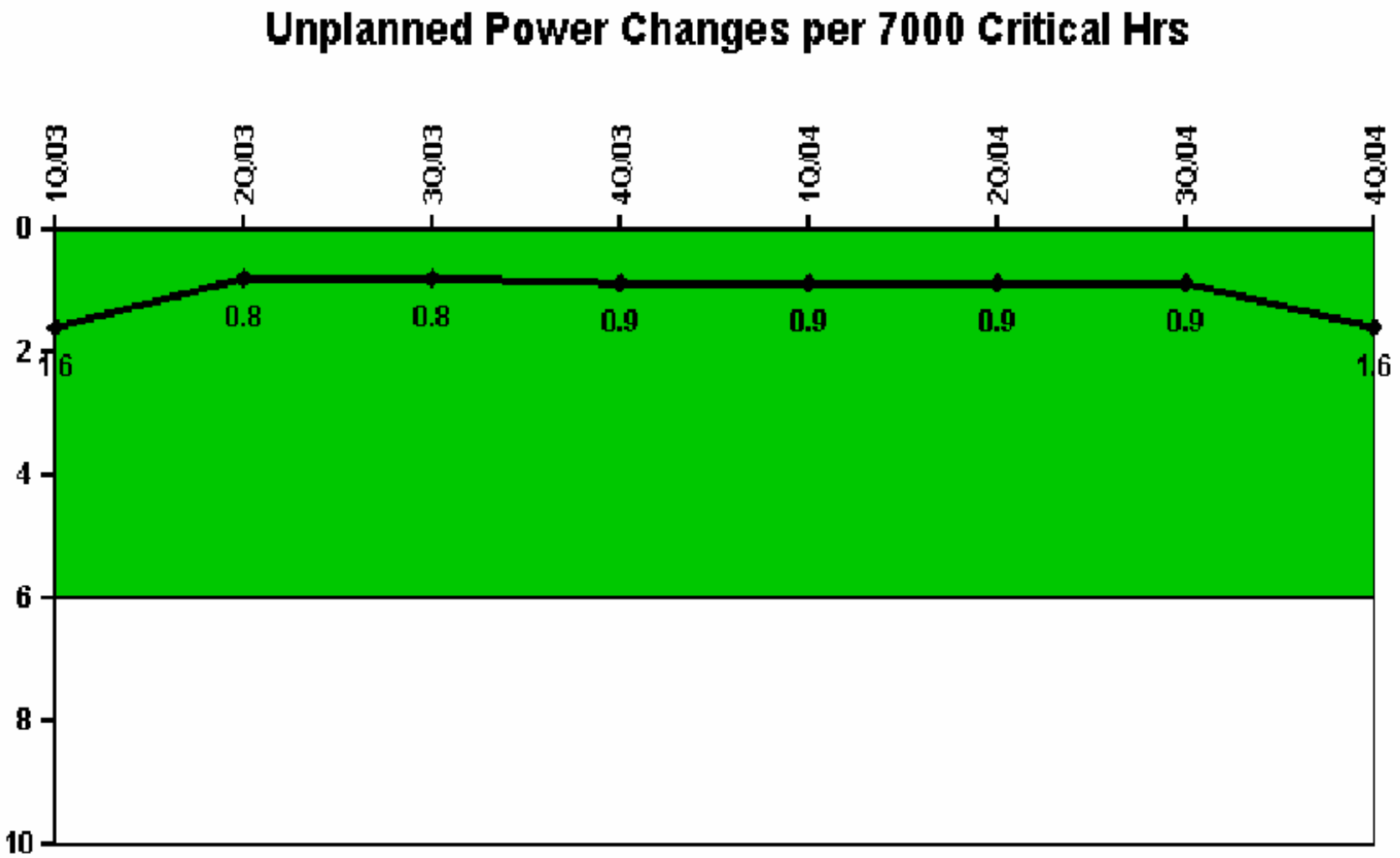
(Jan 1 - Dec 31, 2004)

- Operated safely
- Met all cornerstone objectives
- Three Mile Island (TMI), Unit 1 in the Licensee Response Column of the Action Matrix for all four quarters of 2004
- NRC will continue to conduct baseline inspections in 2005

Three Mile Island - Unit 1, Performance Indicators



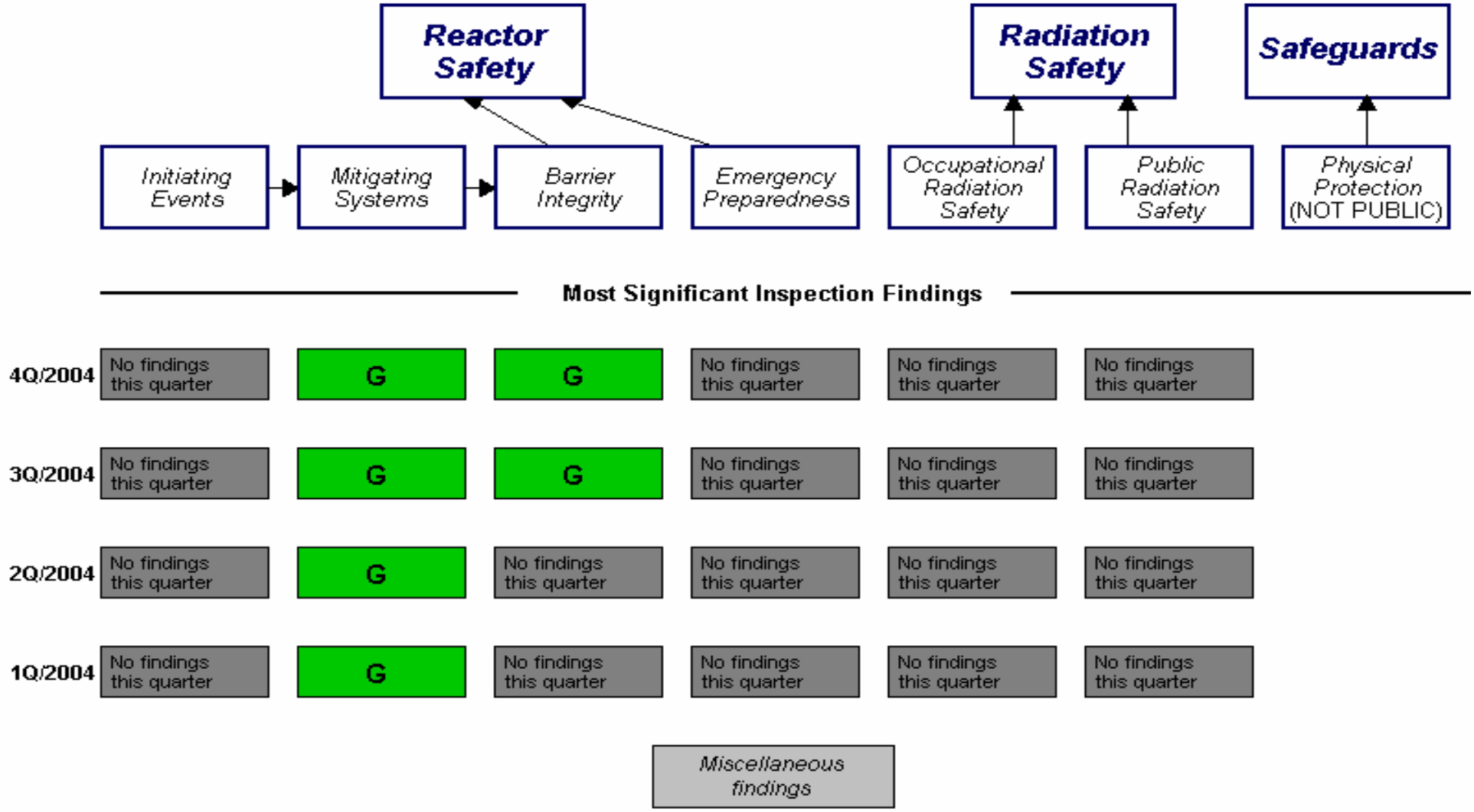
TMI Unit 1, Sample PI



Thresholds: White > 6.0

TMI Unit 1, Inspection Findings

www.nrc.gov/NRR/OVERSIGHT/ASSESS/ then click TMI 1



Sample Inspection Findings

- 25 Percent of the Operating Crews did not pass the Simulator Portion of the Operator Requalification Exam
- Untimely Identification and Correction of Equipment Conditions, including:
  - Nuclear River Water Pump “1C” Elevated Vibration
  - Emergency Diesel Generator “A” Fuel Injector Line Degraded
  - Control Building Ventilation Exhaust Fan Elevated Vibration
  - Main Steam Isolation Valve Support Snubber Oil Reservoir Low
  - Incorrect Main Steam Line Instrument Fitting
- Plant Modification Affected Emergency Plan Effectiveness Without Prior NRC Approval

TMI, Unit 1, Inspection Activities

(Jan 1 - Dec 31, 2004)

- 5,250 hours of inspection-related activities
- 2 resident inspectors assigned to the site
- 10 regional inspections
- 1 team inspection - Problem Identification and Resolution
- Inspection Findings
  - Twelve (12) findings of very low safety significance (Green)
  - Two (2) severity level IV non-cited violations

Substantive Cross-Cutting Issues

- Three cross-cutting categories: 1) Problem Identification & Resolution, 2) Human Performance and 3) Safety Conscious Work Environment
- Issues involve (cross-cut) multiple ROP cornerstones
- Three factors must exist for the NRC to determine that a substantive cross-cutting issue is present:
  - Multiple Green or safety significant inspection findings within the 12 month assessment period
  - Causal factors have a common theme (e.g., PI&R - identification) as indicated by >3 findings
  - NRC's concern with licensee's scope of efforts or progress in addressing the cross-cutting deficiency

TMI Unit 1, Assessment Summary

(Jan 1 - Dec 31, 2004)

- Operated safely
- Preserved Public Health and Safety
- Highest Performance Category
- Closed the PI&R Substantive Cross-Cutting Issue

TMI Planned Inspections

(Jan 1 - Dec 31, 2005)

- 13 regional inspector visits scheduled
- 2 team inspections scheduled
  - Safety System Design Inspection
  - Triennial Fire Protection Team

AmerGen Response and Remarks

Three Mile Island Nuclear Power Station
Unit 1
AmerGen Energy Company, LLC

NRC Security Program Update

Full implementation of four Orders issued in 2003:

- Access Authorization Order (January 2003)
- Training Order (April 2003)
- Fatigue Order (April 2003)
- Revised Design Basis Threat Order (April 2003)

- Changes to Site Security plans to incorporate the requirements of the orders were reviewed and approved
- Expanded Force-on-Force Exercises (ongoing)
- New NRC Security Baseline Inspection Program initiated (February 2004)

Ways for the Public To Become Informed & Involved in the Regulatory Process

Examples

- Participate in NRC Public Meetings
  - Sign up to be on our mailing list
- Visit the NRC website on a regular basis
- Publically comment on proposed licensing actions or file a Petition for Rulemaking
- 10 CFR 2.206 petition process
- Contact the NRC via E-mail, mail or phone to address questions or areas of concern
- Participate in open NRC/industry symposiums
- Freedom of Information Act (FOIA) requests

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)
- **Public Comment & Involvement in Rulemaking**
  http://ruleforum.llnl.gov/
- **NRC brochure: "Protecting Our Nation"**
  http://www.nrc.gov/reading-rm/doc-collections/nuregs/brochures/br0314/

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