

Susquehanna Steam Electric Station Annual Assessment Meeting

Reactor Oversight Program - CY 2005



Nuclear Regulatory Commission - Region I
King of Prussia, Pennsylvania
April 12, 2006

Purpose of Today's Meeting

- A public forum for discussion of the licensee's performance
- NRC will address the licensee performance identified during the assessment period
- PPL will respond to the information in the letter and inform the NRC of new or existing programs to maintain or improve their performance

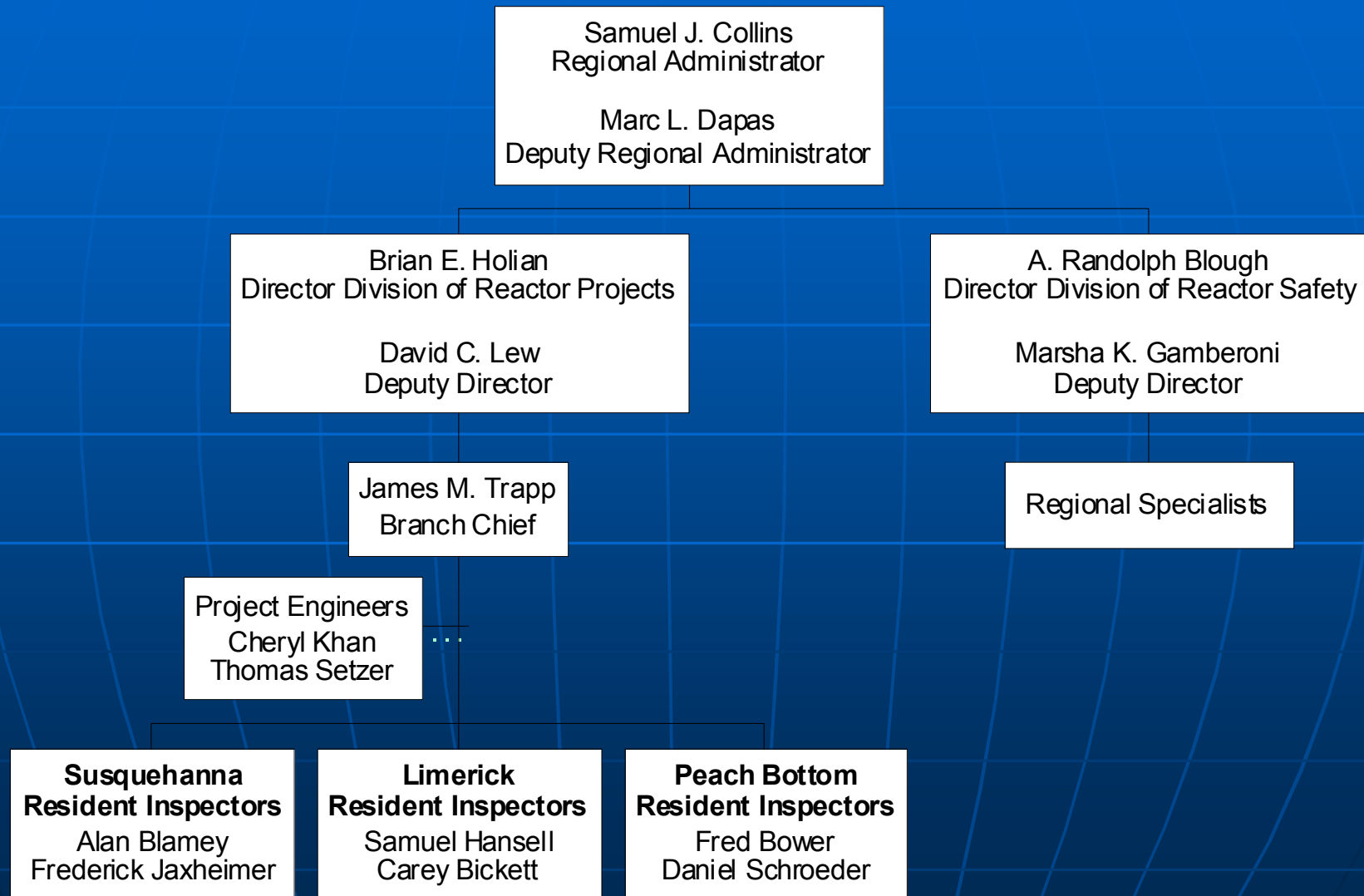
Agenda

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

NRC Representatives

- James Trapp, Branch Chief
 - (610) 337-5186
- Alan Blamey, Senior Resident Inspector
 - (570) 542-2134
- Frederick Jaxheimer, Resident Inspector
 - (570) 542-2134

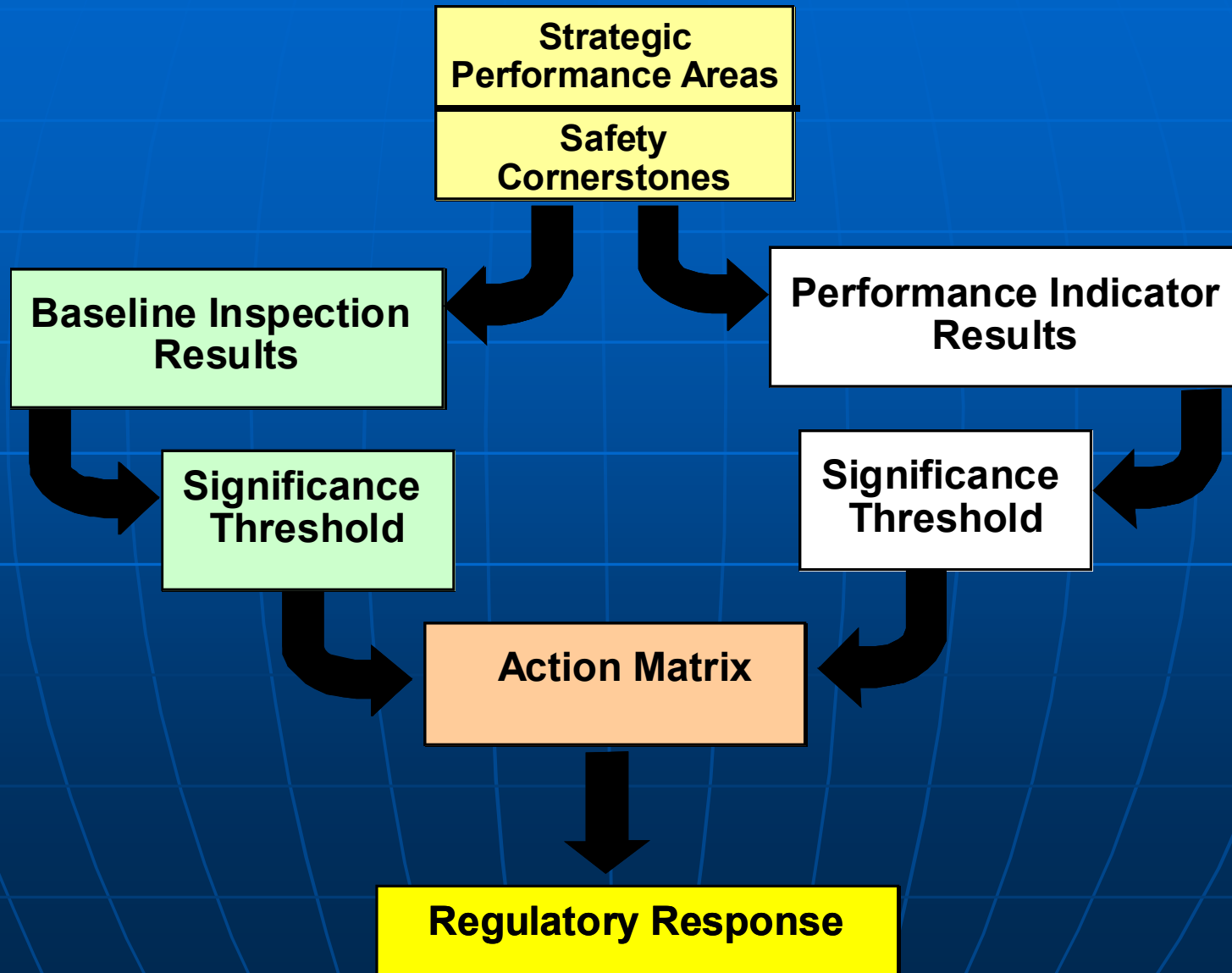
Region I Organization



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' strategic objective

Reactor Oversight Process



Examples of Baseline Inspections

- Equipment Alignment ~80 hrs/yr
- Triennial Fire Protection ~200 hrs every 3 yrs
- Operator Response ~125 hrs/yr
- Emergency Preparedness ~80 hrs/yr
- Rad Release Controls ~110 hrs every 2 yrs
- Worker Radiation Protection ~90 hrs/yr
- Corrective Action Program ~250 hrs every 2 yrs
- Corrective Action Case Reviews ~60 hrs/yr

Significance Threshold

Performance Indicators

Green:	Baseline Inspection
White:	Increased 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 2005

Licensee Response	84
Regulatory Response	12
Degraded Cornerstone	4
Multiple/Repetitive Degraded Cornerstone	3
Unacceptable	0
<u>Total</u>	<u>103</u>

National Summary

- Performance Indicator Results (at end of CY 2005)

▶ Green	1850
▶ White	4
▶ Yellow	0
▶ Red	0

- Total Inspection Findings (CY 2005)

▶ Green	849
▶ White	10
▶ Yellow	1
▶ Red	0

Susquehanna Inspection Activities

(Jan 1 - Dec 31, 2005)

- 5267 hours of inspection related activities
- 2 resident inspectors assigned to the site
- ~15 regional inspector visits
 - Included two team inspections (SSDI, Fire Protection Inspection)
- Unit 2 refueling outage
 - February – March 2005

Susquehanna Unit 1 Assessment Results

(Jan 1 – Dec 31, 2005)

- Operated safely throughout the Assessment Period
- Licensee response column of the Action Matrix for all of 2005 (cornerstone objectives fully met)
- Inspection Findings
 - 4 findings of very low safety significance (**Green**)
 - All 4 findings were common to both units
- NRC will conduct baseline inspections during the remainder of the cycle

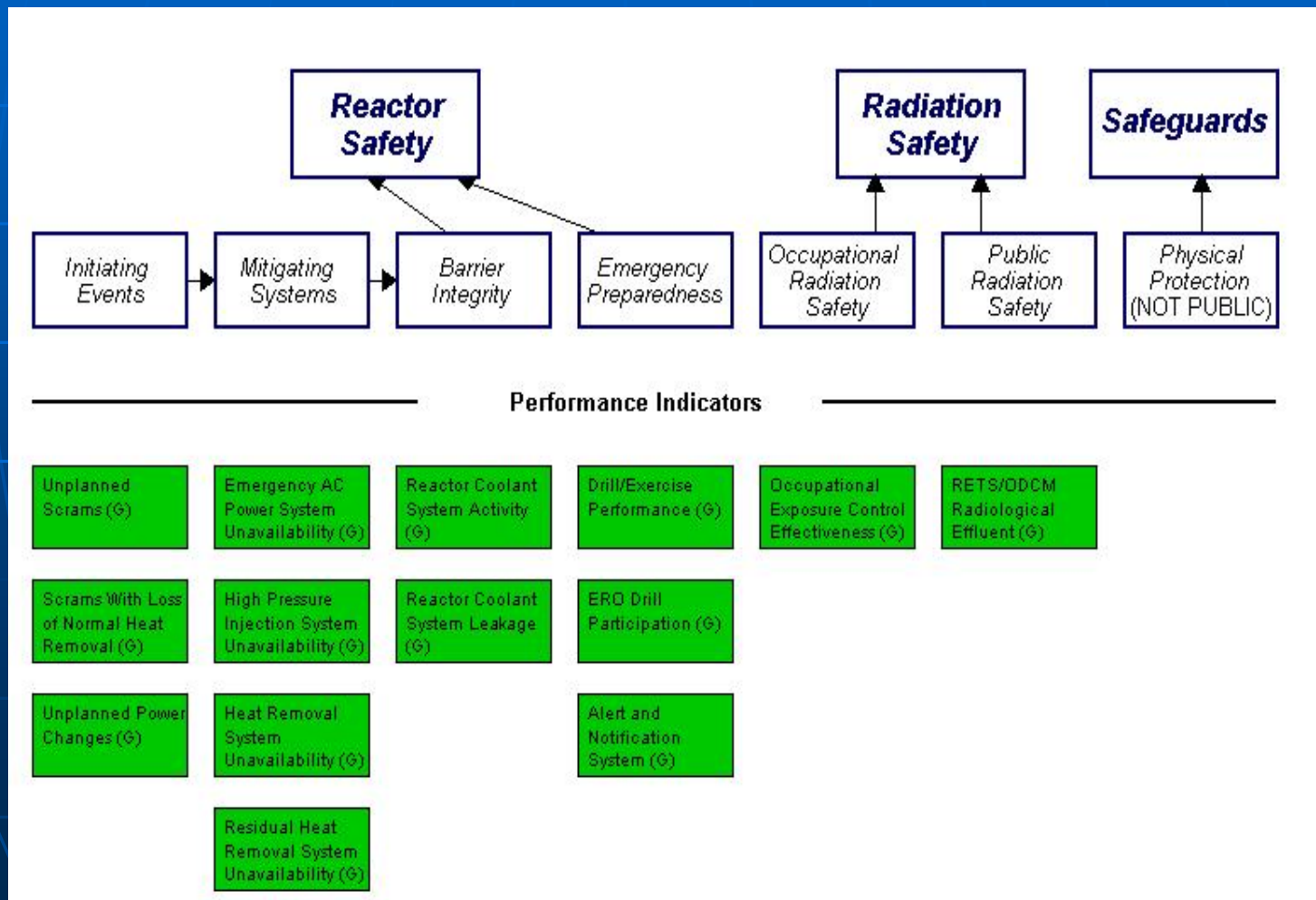
Susquehanna Unit 2 Assessment Results

(Jan 1 – Dec 31, 2005)

- Operated safely throughout the Assessment Period
- Licensee response column of the Action Matrix for all of 2005 (cornerstone objectives fully met)
- Inspection Findings
 - 7 findings of very low safety significance (**Green**)
 - 4 of the 7 findings were common to both units
 - 4 human performance cross-cutting issues identified at end of assessment period. However, there is no common subcategory and a substantive cross-cutting issue was not proposed.
- NRC will conduct baseline inspections during remainder of the cycle

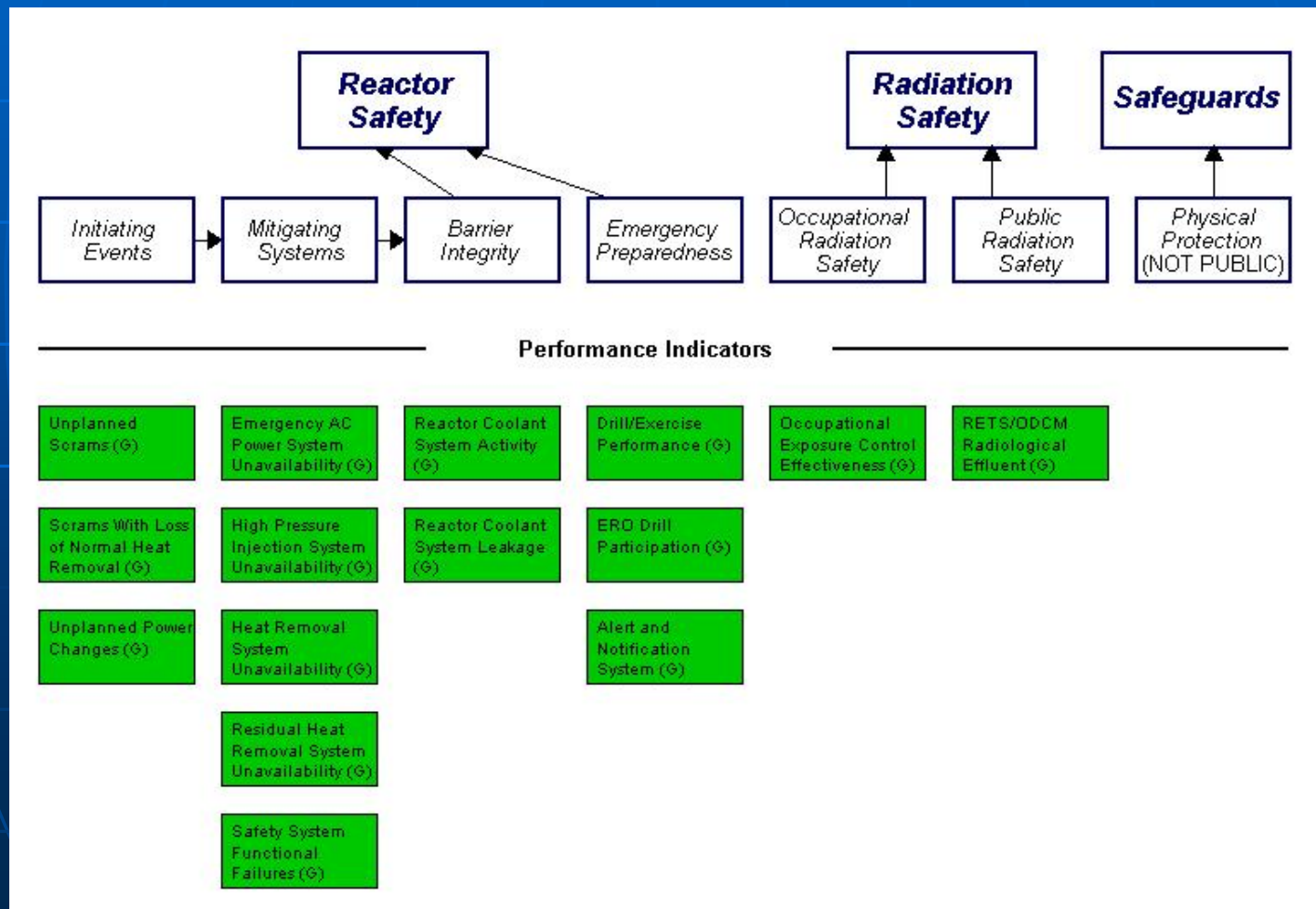
Unit 1 – 4Q Performance Indicators

- www.NRC.GOV/NRR/oversight/assess/index.html
- click on plant name on left side of page



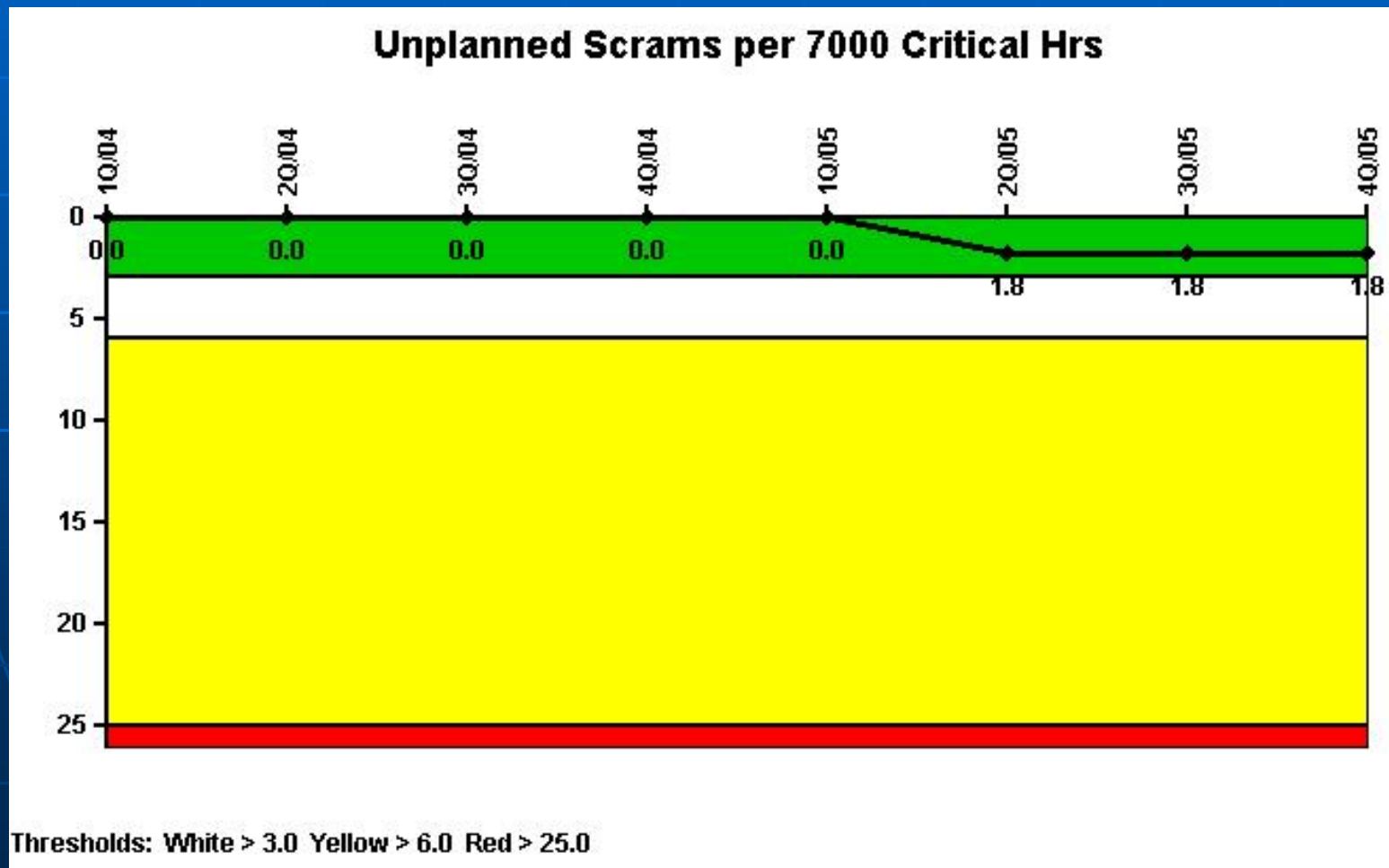
Unit 2 – 4Q Performance Indicators

- www.NRC.GOV/NRR/oversight/assess/index.html
- click on plant name on left side of page



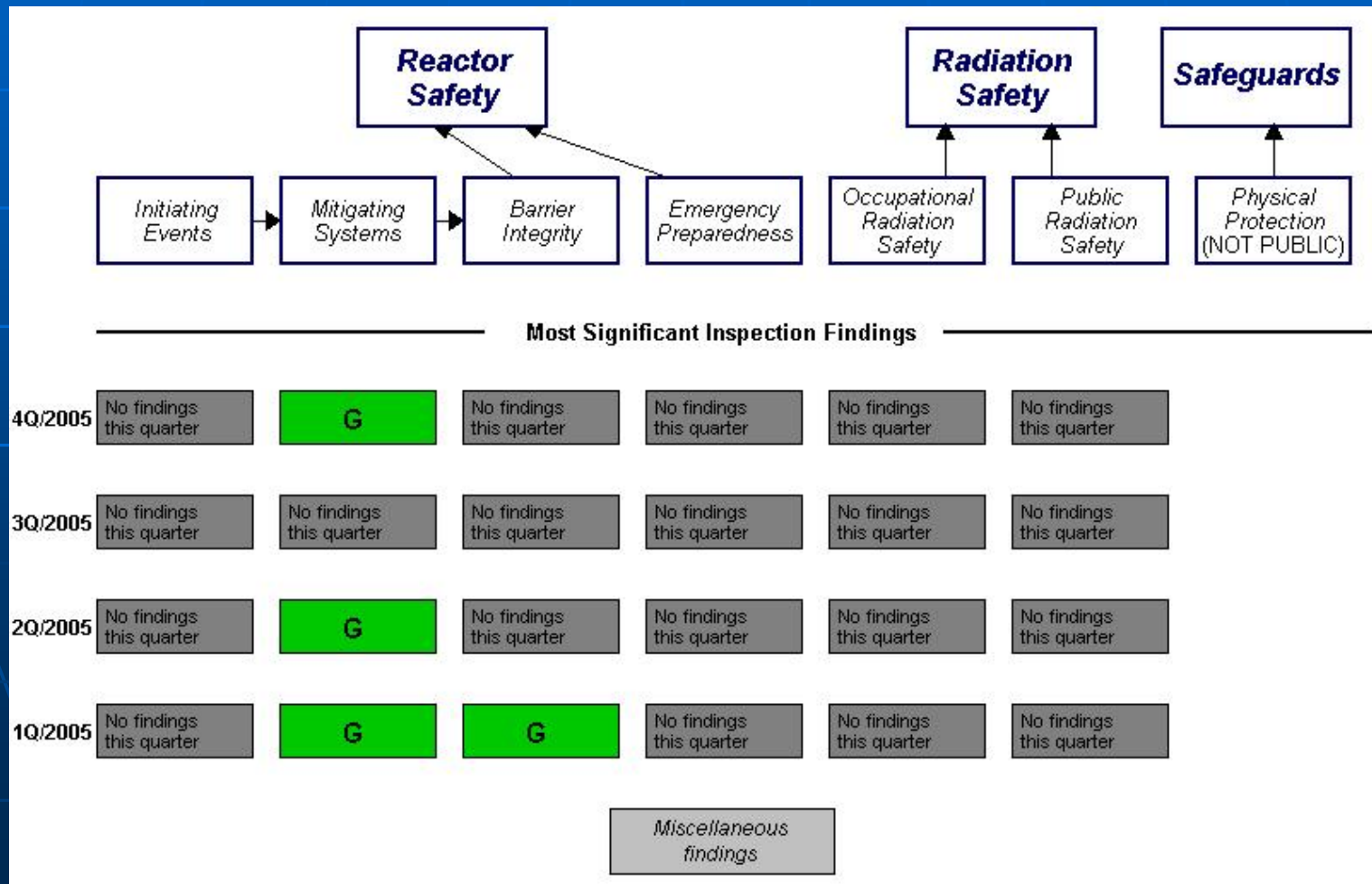
Performance Indicator (PI) Example

- www.NRC.GOV/NRR/oversight/assess/index.html
 - click on plant name on left side of page, then on PI



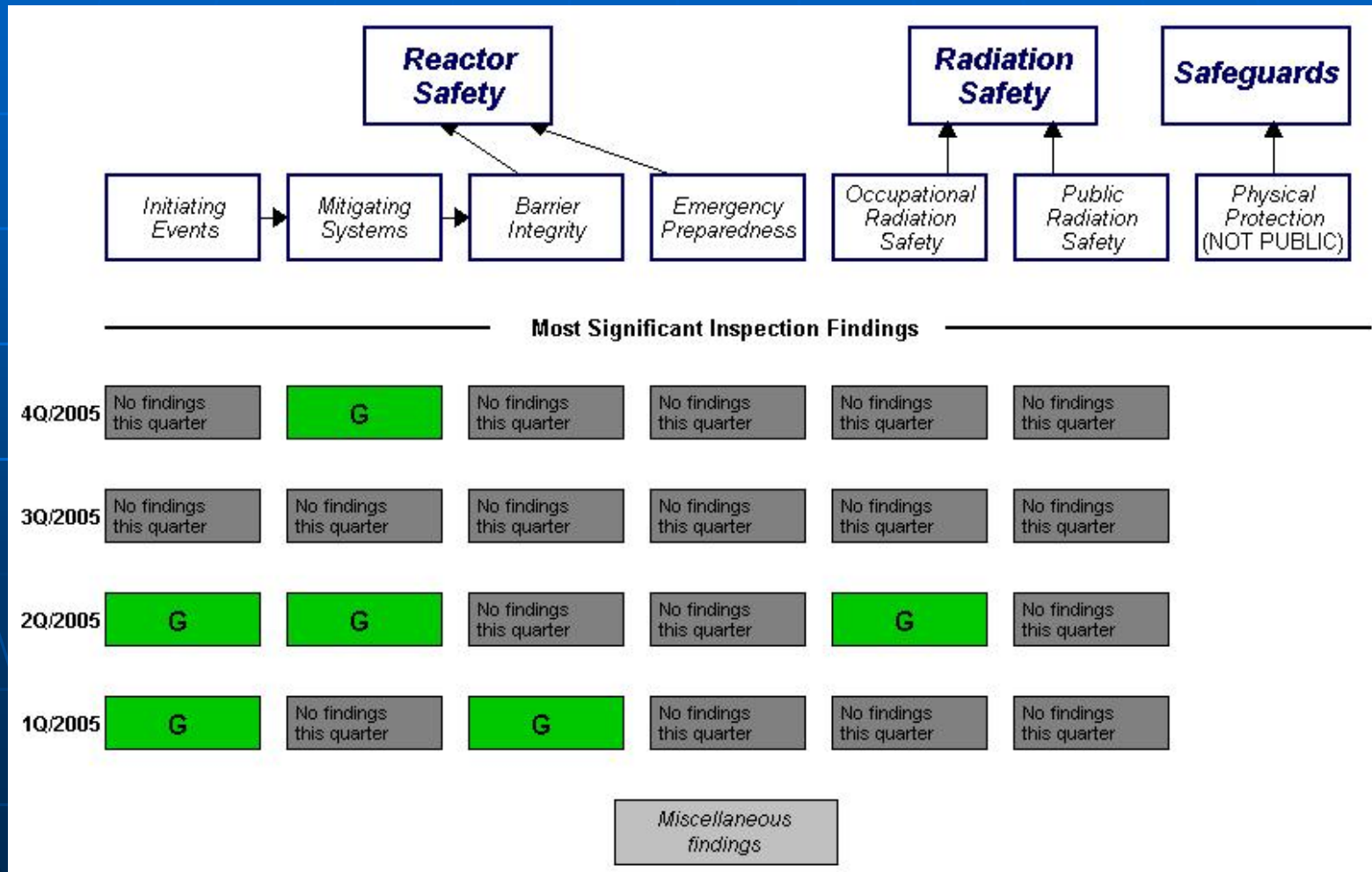
Unit 1 – Inspection Results

- www.NRC.GOV/NRR/oversight/assess/index.html
-click on plant name on left side of page



Unit 2 – Inspection Results

- www.NRC.GOV/NRR/oversight/assess/index.html
-click on plant name on left side of page



Susquehanna

Annual Assessment Summary

January 1 – December 31, 2005

- PPL operated Susquehanna Units 1 & 2 in a manner that protected public health and safety
- Licensee response column of the Action Matrix (All cornerstone objectives were fully met)
- NRC plans baseline inspections at Susquehanna for the remainder of the 2006 assessment period

Licensee Response and Remarks

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)