

NRC Annual Assessment Meeting For Calvert Cliffs



Nuclear Regulatory Commission - Region I

Prince Frederick, Maryland

April 20, 2006

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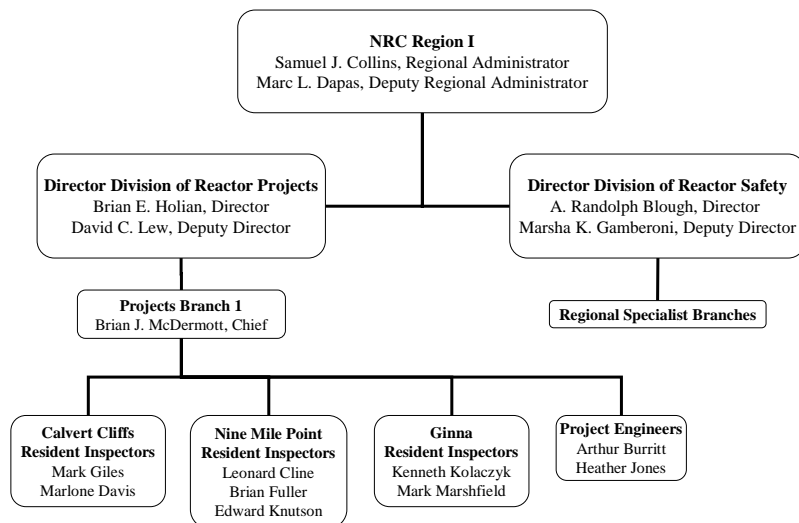
Purpose of Today's Meeting

- A public forum for discussion of the licensee's performance
- The NRC will present its assessment of safety performance at Calvert Cliffs during 2005
- Constellation will be given the opportunity to respond and describe new or existing programs to maintain or improve its 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

Region I Organization



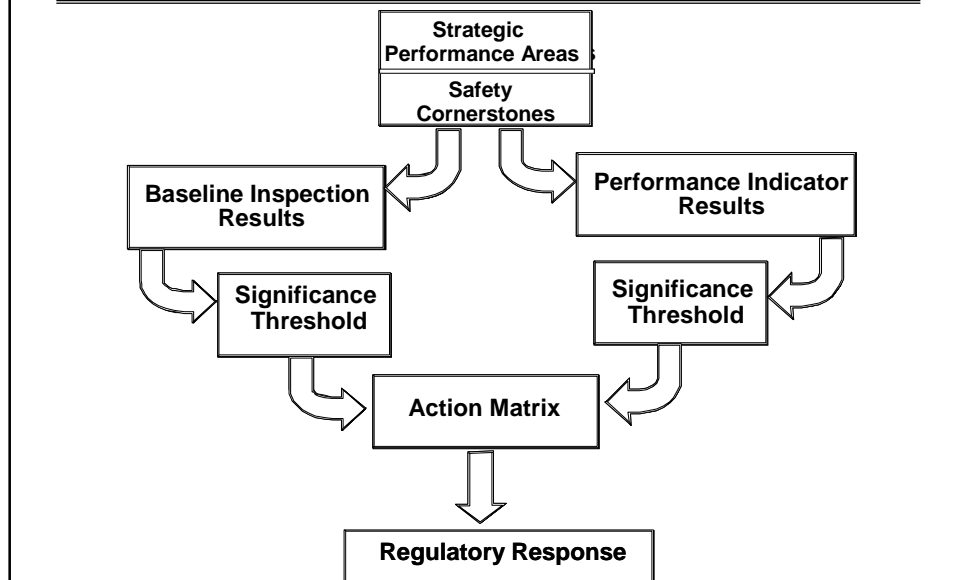
NRC Representatives

- Brian J. McDermott, Chief, Projects Branch 1, Region I
- Mark A. Giles, Senior Resident Inspector
- Marlene Davis, Resident Inspector

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



Action Matrix Concept

Licensee Response	Regulatory Response	Degraded Cornerstone	Multiple/Rep. Degraded Cornerstone	Unacceptable Performance
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- Increasing Safety Significance
- Increasing NRC Inspection Efforts
- Increasing NRC/Licensee Management Involvement
- Increasing Regulatory Actions

Examples of Baseline Inspections¹

- Equipment Alignment ~80 hrs/yr
- Triennial Fire Protection ~200 hrs/3 yrs
- Operator Response ~125 hrs/yr
- Emergency Preparedness ~80 hrs/yr
- Rad Release Controls ~110 hrs/2 yrs
- Engineering Design ~680 hrs/2 yrs
- Corrective Action Program ~250 hrs/2 yrs
- Corrective Action Case Reviews ~60 hrs/yr

¹Baseline Inspections For A Single Unit Require Approximately ~5000 Hours Per Year

Significance Threshold

Inspection Findings

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

Performance Indicators

- Green:** Baseline Inspection
White: Increased NRC oversight
Yellow: Requires more NRC oversight
Red: Requires more NRC oversight

National Summary

Status At End Of	2005	2004
Licensee Response	84	78
Regulatory Response	12	21
Degraded Cornerstone	4	0
Multiple/Repetitive Degraded Cornerstone	3	3
Unacceptable	0	0
Total	103	102*

* Davis-Besse was in Shutdown with Enhanced Oversight in 2004

National Summary

Total Inspection Findings

Total For Calendar Year	2005	2004
Green	849	778
White	10	11
Yellow	1	0
Red	0	0

Performance Indicator Results

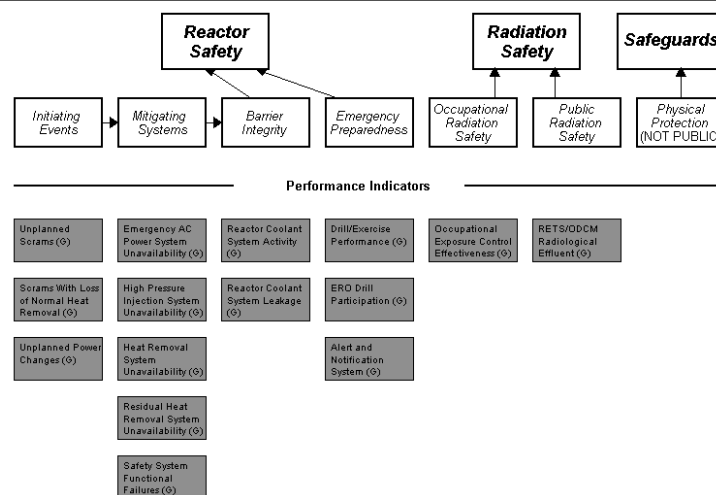
Status At End Of	2005	2004
Green	1850	1834
White	4	6
Yellow	0	0
Red	0	0

NRC Inspection Activities

January 1, 2005 – December 31, 2005

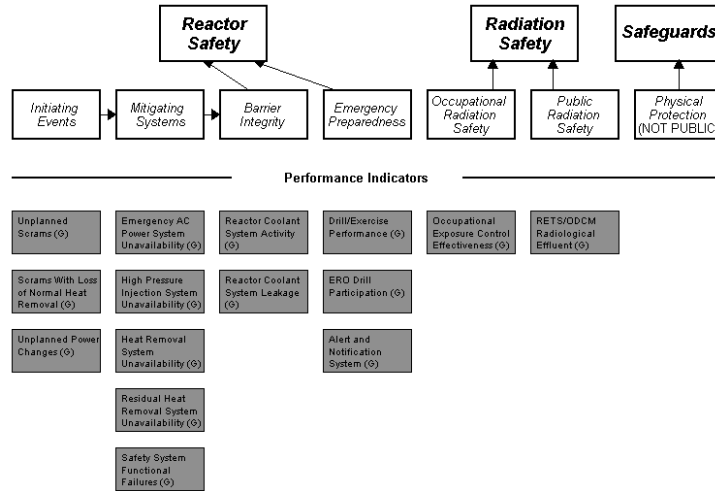
- 5378 hours of inspection related activities
- 2 resident inspectors assigned to the site
- 9 regional specialist inspector visits
- 3 team inspections
 - emergency preparedness
 - licensed operator requalification
 - problem identification and resolution inspection

Calvert Cliffs 1 Indicators



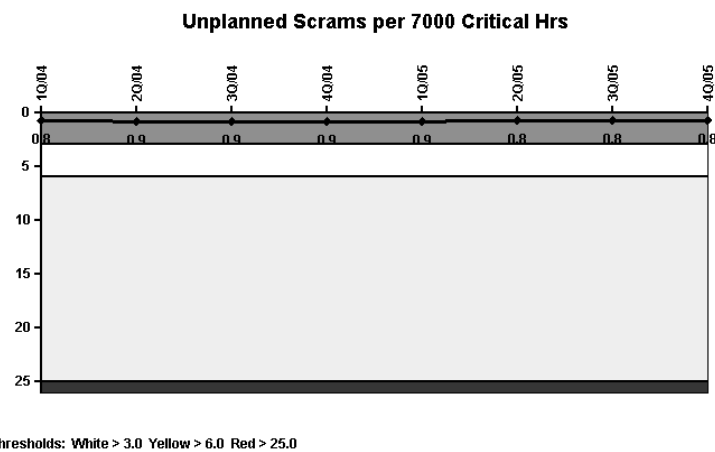
Available On The Web At: <http://www.nrc.gov/reactors/operating/oversight.html>

Calvert Cliffs 2 Indicators



Available On The Web At: <http://www.nrc.gov/reactors/operating/oversight.html>

Performance Indicator Example



Available On The Web At: <http://www.nrc.gov/reactors/operating/oversight.html>

Unit 1 Assessment Results

January 1, 2005 – December 31, 2005

- Operated safely throughout the Assessment Period
- Licensee Response column of the Action Matrix for the last three quarters of 2005
- Inspection Findings
 - 4 findings of very low safety significance (Green)
 - 2 of the 4 findings were common to both units
- NRC will conduct baseline inspections during the remainder of the cycle

Unit 2 Assessment Results

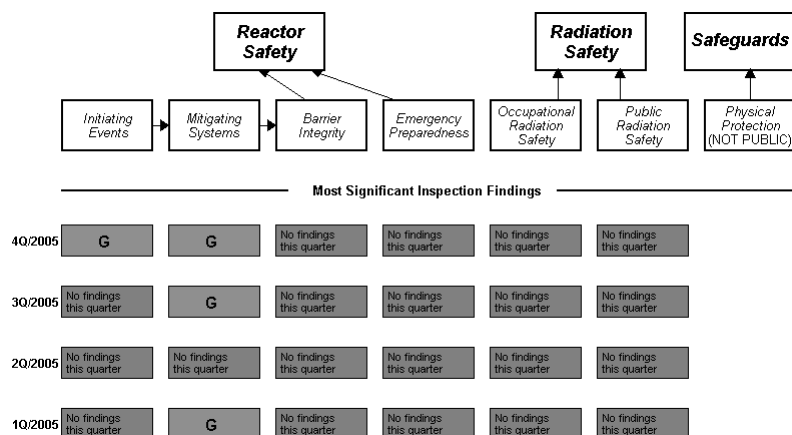
January 1, 2005 – December 31, 2005

- Operated safely throughout the Assessment Period
- Licensee Response column of the Action Matrix last three quarters of 2005, Regulatory Response column in the 1st Quarter of 2005
- Inspection Findings
 - 4 findings of very low safety significance (Green)
 - 2 of the 4 findings were common to both units
- NRC will conduct baseline inspections during the remainder of the cycle

Unit 2 Assessment Results

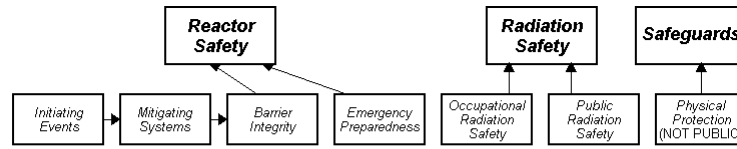
- 1 finding of low to moderate safety significance (White – Issued 2nd Quarter 2004)
 - Relay failure causing steam dump valves to fail open following reactor trip
- Supplemental inspection in January 2005 determined Constellation's root cause analysis was complete and corrective actions were appropriately identified
- White finding was not part of Action Matrix characterization after the 1st Quarter of 2005

Calvert Cliffs 1 Findings



Available On The Web At: <http://www.nrc.gov/reactors/operating/oversight.html>

Calvert Cliffs 2 Findings



Most Significant Inspection Findings

Quarter	Initiating Events	Mitigating Systems	Barrier Integrity	Emergency Preparedness	Occupational Radiation Safety	Public Radiation Safety	Physical Protection (NOT PUBLIC)
4Q/2005	No findings this quarter	G	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter
3Q/2005	No findings this quarter	G	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter
2Q/2005	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter
1Q/2005	G	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter

Available On The Web At: <http://www.nrc.gov/reactors/operating/oversight.html>

Licensee Response and Remarks

Calvert Cliffs Nuclear Power Plant
Constellation Generation Group

Summary Of NRC Assessment

- Constellation Operated Calvert Cliffs In A Manner That Preserved Public Health and Safety During 2005
- NRC Will Conduct Baseline Inspections At Calvert Cliffs During 2006

Contacting the NRC

- To report an emergency
(301) 816-5100 (call collect)
- To report a safety concern
(800) 695-7403 or 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)