

# **NRC Annual Performance Assessment of Calvert Cliffs**

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**2006 Reactor Oversight Program**



**U.S. NRC**

UNITED STATES NUCLEAR REGULATORY COMMISSION

*Protecting People and the Environment*

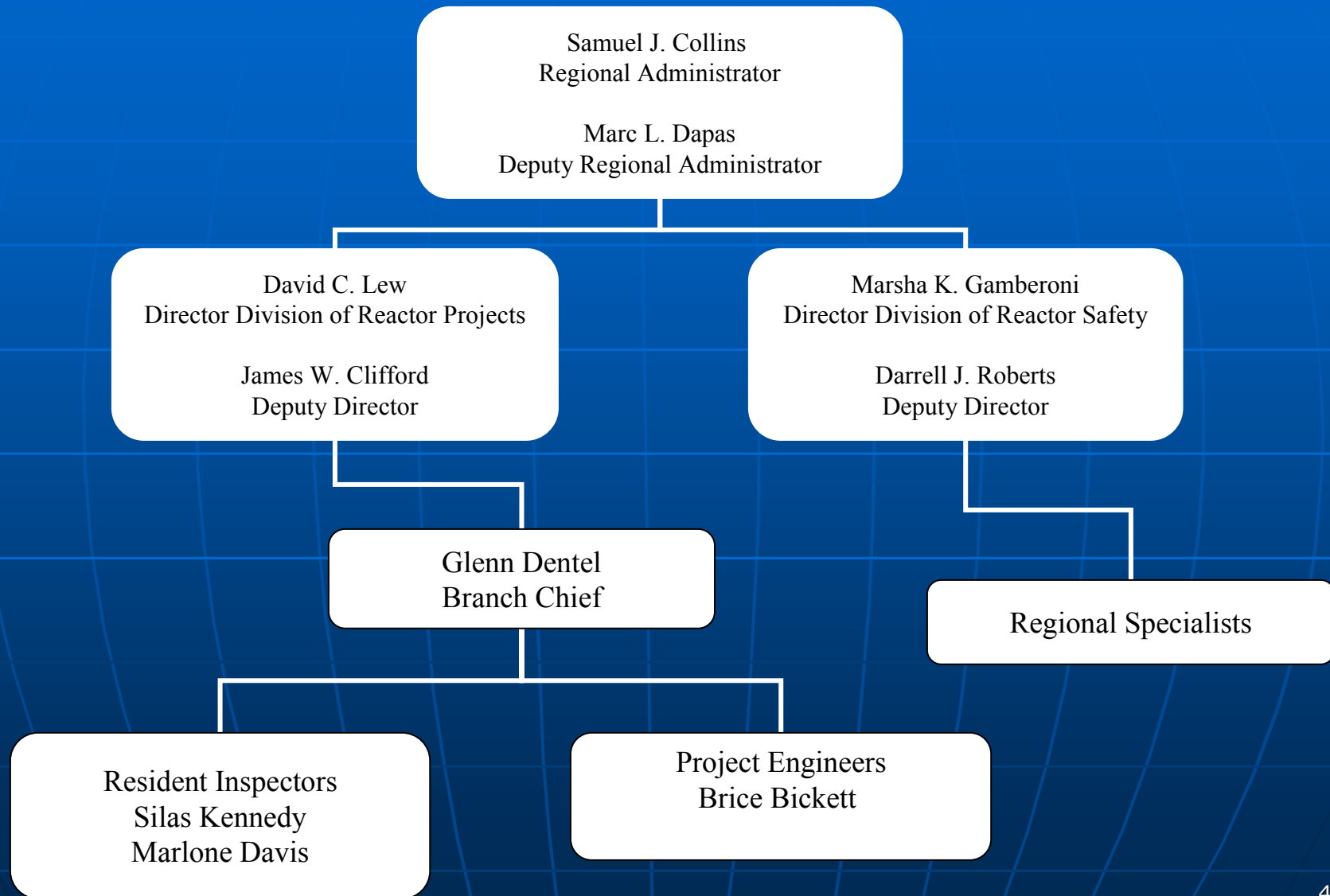
# Purpose of Today's Meeting

- The NRC will address the licensee's performance as described in the annual assessment letter
- Constellation Energy will be given the opportunity to respond to the information in the letter and inform the NRC of new or existing programs to maintain or improve their performance
- The NRC will be available to engage interested stakeholders on performance of the plant and our role in ensuring safe plant operations

# Agenda

- Introduction and NRC Organization
- Review of NRC Reactor Oversight Process
- Regulatory Summary of National Plant Performance
- NRC Assessment of Plant Performance Results
- Constellation Response and Remarks
- NRC Closing Remarks
- Break
- NRC available to address public questions

# Region I Organization



# NRC Representatives

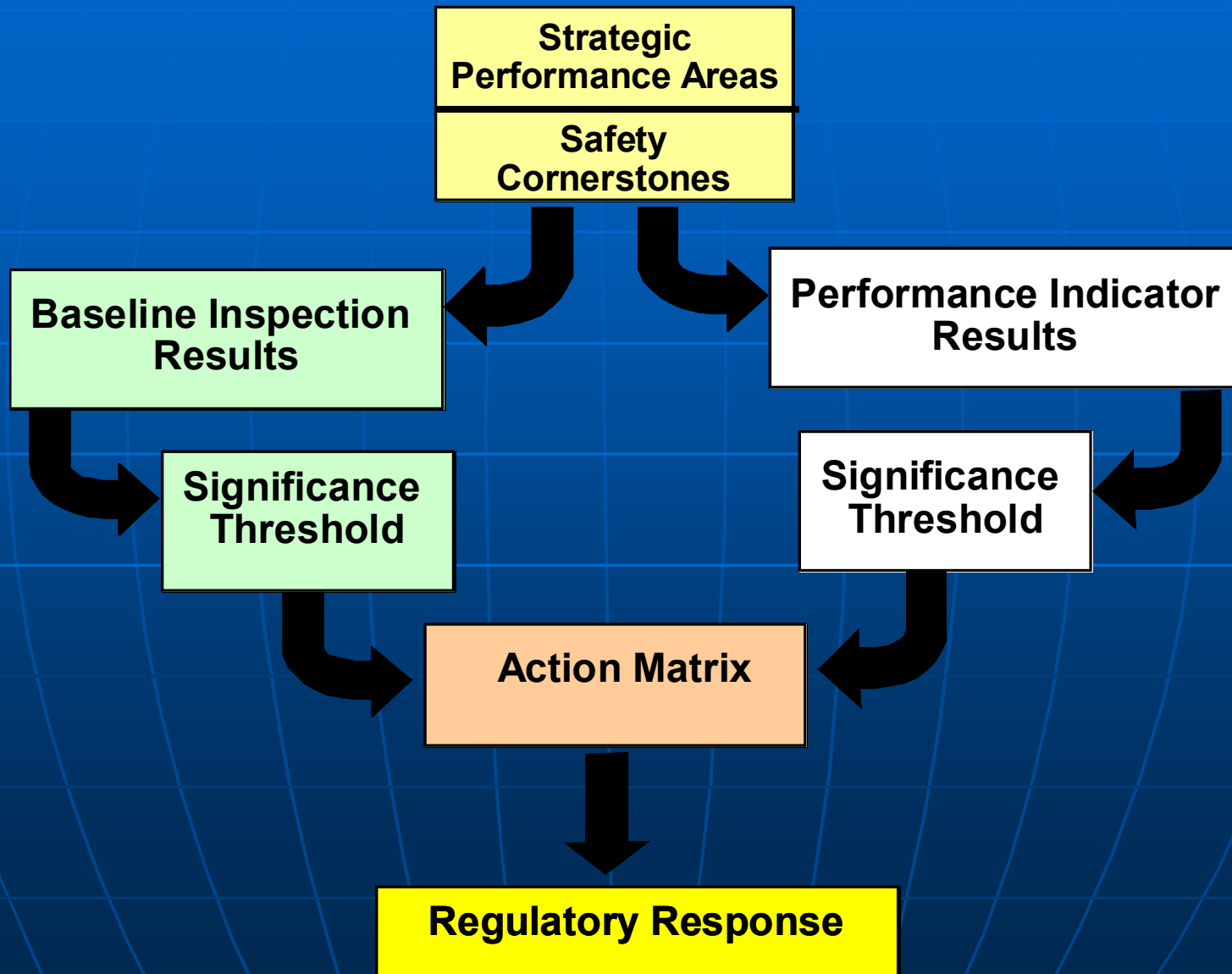
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- David Lew, Director
  - (610) 337-5229
- Glenn Dentel, Branch Chief
  - (603) 474-3580
- Silas Kennedy, Senior Resident Inspector  
Marlone Davis, Resident Inspector
  - (410) 586-2626
- Brice Bickett, Senior Project Engineer
  - (610) 337-6959
- Douglas Pickett, Project Manager, NRR
  - (301) 415-1364

# 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 objective

# Reactor Oversight Process



# Examples of Baseline Inspection Areas

- Equipment Alignment
- Maintenance
- Fire Protection
- Operator Response
- Emergency Preparedness
- Radiation Release Controls
- Worker Radiation Protection
- Corrective Action Program
- Corrective Action Case Reviews



# Significance Threshold

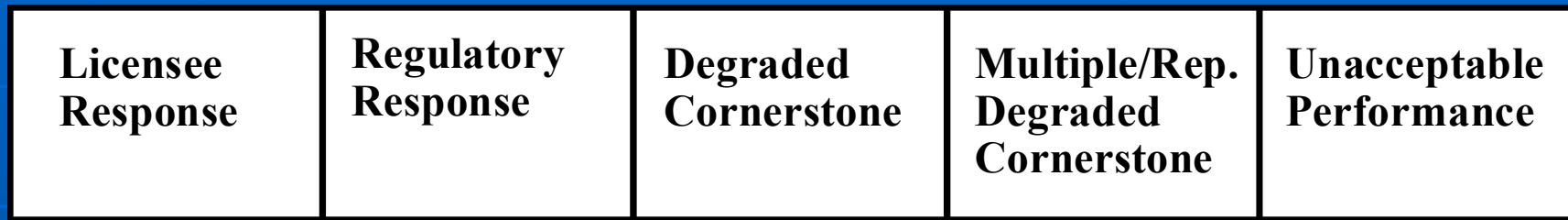
## Performance Indicators

Green:	Baseline Inspection
White:	May increase NRC oversight
Yellow:	Requires more NRC oversight
Red:	Requires most 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

# Regulatory Summary of National Plant Performance

## Status at End of 2006

Licensee Response	70
Regulatory Response	24
Degraded Cornerstone	6
Multiple/Repetitive Degraded Cornerstone	3
Unacceptable	0
<b>Total</b>	<b>103</b>

# National Summary

- Performance Indicator Results (at end of 2006)

▶ Green	1843
▶ White	11
▶ Yellow	0
▶ Red	0

- Total Inspection Findings (2006)

▶ Green	676
▶ White	13
▶ Yellow	0
▶ Red	0

# NRC Inspection Activities at Calvert Cliffs

5692 Hours of inspection and assessment related activities

- Two resident inspectors assigned to the site
- Specialist Inspections
  - 9 regional inspections
  - 1 team inspection

# NRC Inspection Activities at Calvert Cliffs

- Daily Resident Inspections
- Refueling outage (February 16 – April 4)
- Component Design Basis Inspection

# NRC Assessment of Calvert Cliffs

- Unit 1 – Licensee Response Column 1<sup>st</sup> and 2<sup>nd</sup> quarters
- Unit 1 – Regulatory Response Column 3<sup>rd</sup> and 4<sup>th</sup> quarters
  - NRC supplemental inspection for Unit 1 during January 2007 closed out the white inspection finding
  - The finding will remain an input to the ROP assessment process through the second quarter 2007.
- Unit 2 – Licensee Response Column all quarters

# Safety Significant Findings or PIs

- Inspection Findings

- Eight findings of very low safety significance  
(Green)

- One finding of low to moderate safety significance  
(White) identified at Unit 1



# NRC Annual Assessment Summary at Calvert Cliffs

- Constellation operated Calvert Cliffs in a manner that preserved public health and safety.
- NRC plans baseline inspections at Calvert Cliffs for the remainder of the 2007 assessment period.

# Constellation's Response and Remarks

James Spina

Site Vice President – Calvert Cliffs

Constellation Energy LLC

# 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](http://www.nrc.gov)

# 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)

# END OF THE PRESENTATION



Nuclear Regulatory Commission - Region I

King of Prussia, Pennsylvania

May 22, 2007