NRC Annual Performance Assessment
of
Calvert Cliffs

2006 Reactor Oversight Program

U.S.NRC

UNITED STATES NUCLEAR REGULATORY COMMISSION

Protecting People and the Environment

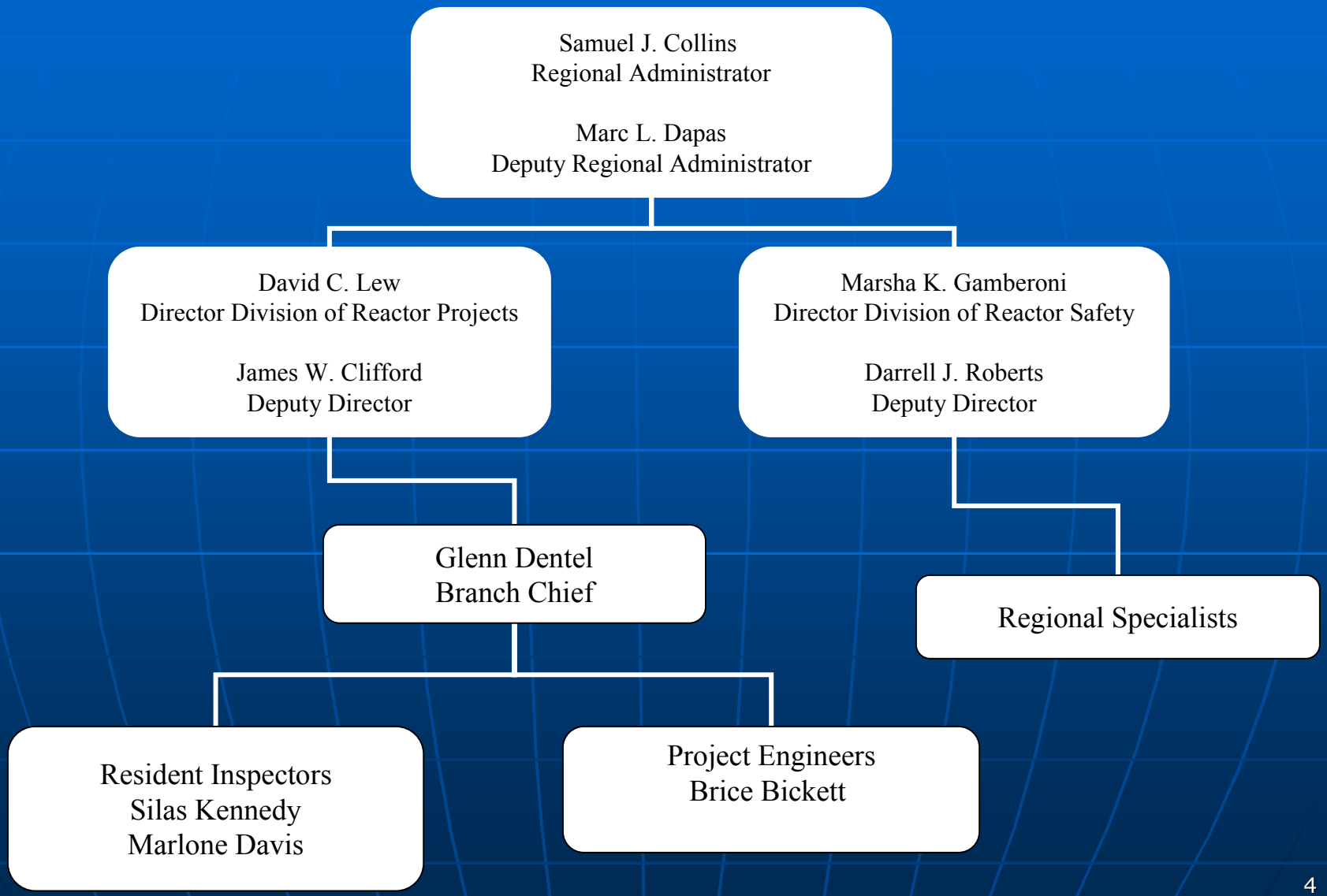
Purpose of Today's Meeting

- 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



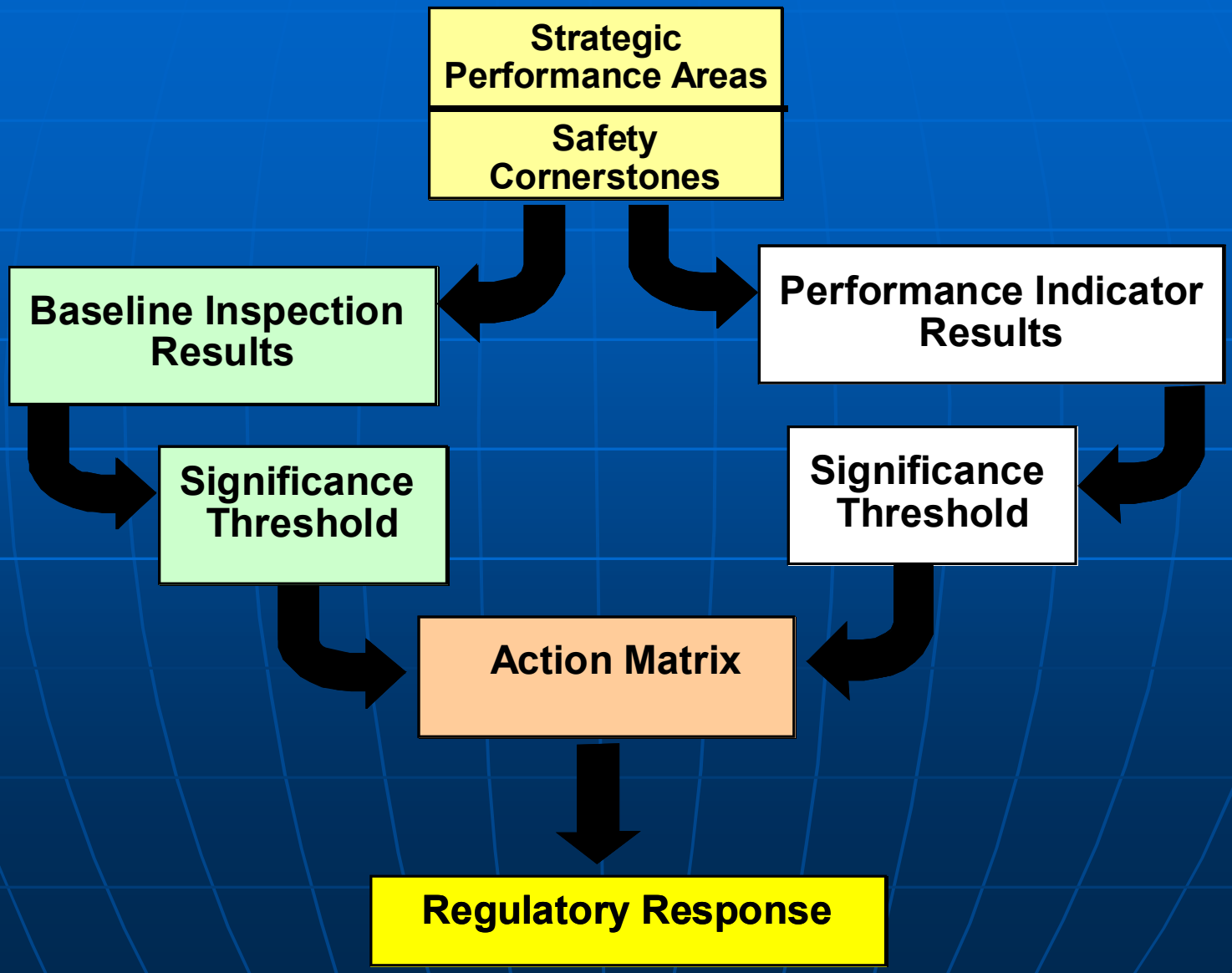
NRC Representatives

- 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

Licensee Response	Regulatory Response	Degraded Cornerstone	Multiple/Rep. Degraded Cornerstone	Unacceptable Performance

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
Total	103

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 1st and 2nd quarters
- Unit 1 – Regulatory Response Column 3rd and 4th 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

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

U.S.NRC

UNITED STATES NUCLEAR REGULATORY COMMISSION

Protecting People and the Environment

Nuclear Regulatory Commission - Region I

King of Prussia, Pennsylvania

May 22, 2007