

Duane Arnold Energy Center (DAEC) Annual Assessment Meeting

Reactor Oversight Program - CY 2005



Nuclear Regulatory Commission - Region III

Palo, Iowa

April 11, 2006

Purpose of Today's Meeting

- A public forum for discussion of the licensee's performance
- NRC will address the licensee performance issues identified in the annual assessment letter
- Licensee 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

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 III Organization

James Caldwell
Regional Administrator

Geoffrey Grant
Deputy Regional Administrator

Mark Satorius
Director Division of Reactor Projects

Steven West
Deputy Director

Cynthia Pederson
Director Division of Reactor Safety

Anne Boland
Deputy Director

Bruce Burgess
Branch Chief

Regional Specialists

DAEC
Resident Inspectors
George Wilson
Randal Baker

Project Engineer
Nirodh Shah
Reactor Engineer
Stuart Sheldon

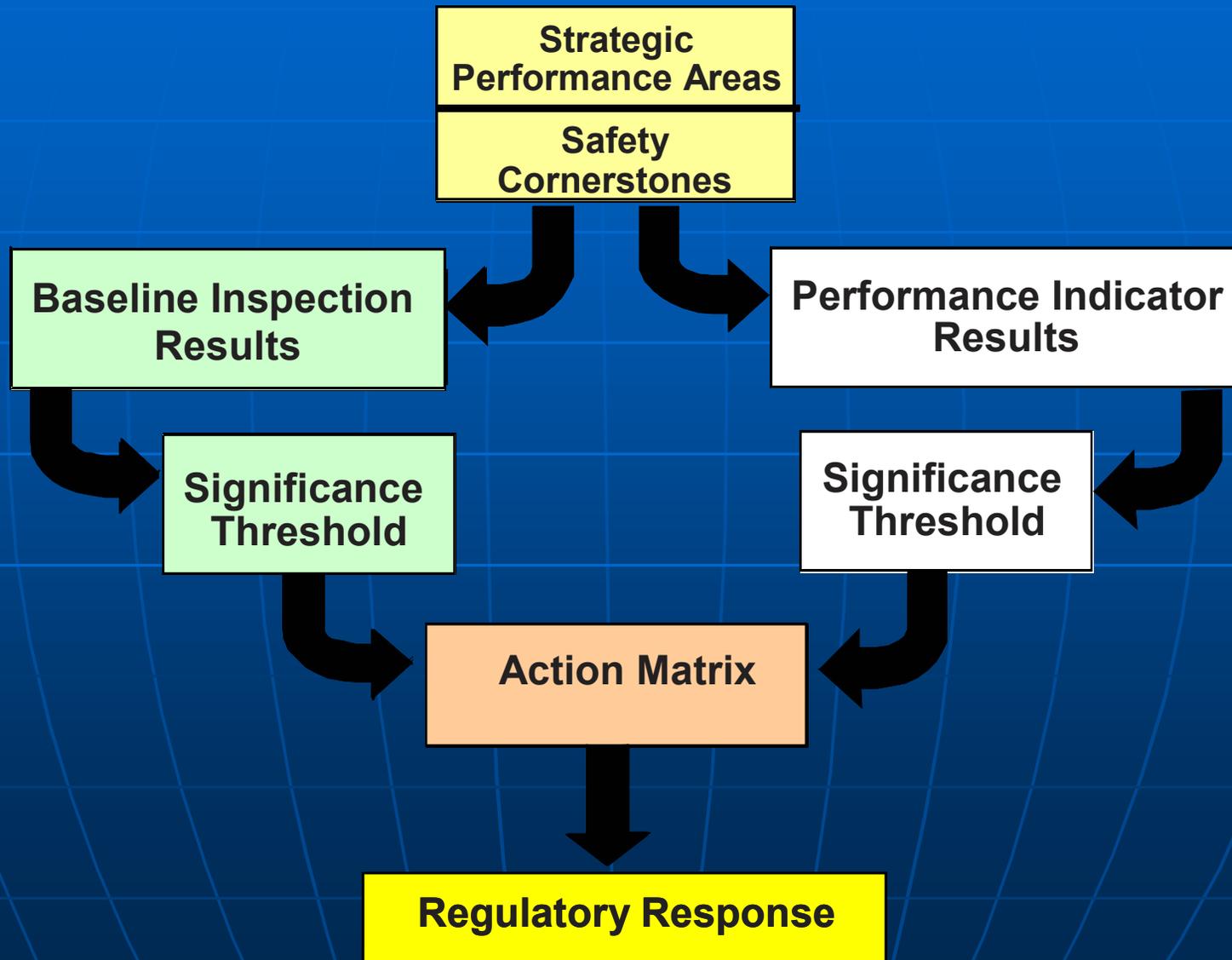
NRC Representatives

- Mark Satorius, Director, Division Reactor Projects
 - (630) 829-9600
- Steven West, Deputy Division Director, DRP
 - (630) 829-9601
- Deirdre Spaulding, Project Manager, NRR
 - (301) 415-2928
- George Wilson, Senior Resident Inspector
 - (319) 851-5111
- Randal Baker, Resident Inspector
 - (319) 851-5111
- Bruce Burgess, Branch Chief
 - (630) 829-9629
- Nirodh Shah, Project Engineer
 - (630) 829-9821
- Stuart Sheldon, Reactor Engineer
 - (630) 829-9727

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 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

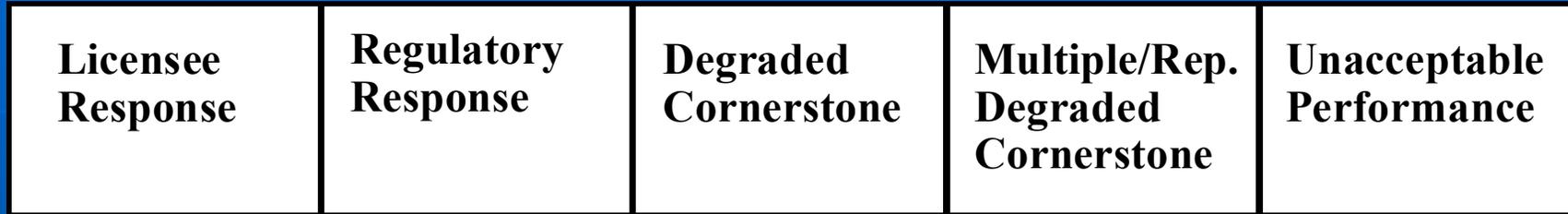
Performance Indicators

- Green:** 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 2005

| | |
|--|-----|
| Licensee Response | 84 |
| Regulatory Response | 12 |
| Degraded Cornerstone | 4 |
| Multiple/Repetitive Degraded Cornerstone | 3 |
| Unacceptable | 0 |
| Total | 103 |

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 |

DAEC Assessment Results

(Jan 1 - Dec 31, 2005)

- Licensee Response Column of Action Matrix with all Green PIs and inspection findings
- No Supplemental Inspections were performed in 2005
- A Substantive Cross-Cutting Issue in the Area of Human Performance was Continued and there are continued concerns with several outstanding engineering issues.

Safety Significant Findings or PIs

(Jan 1 - Dec 31, 2005)

- None

DAEC Inspection Activities

(Jan 1 - Dec 31, 2005)

- There were approximately 4871 hours of inspection related activities performed at the DAEC during 2005.
- The inspections were performed by the Resident Inspectors and Regional Inspectors. The Regional Inspectors included specialists in Security, Emergency Preparedness, and Radiation Protection.
- There were 20 Green or SL-IV Inspection Findings identified during 2005.
- There was a Refueling Outage during 2005.

DAEC Inspection Activities

(Jan 1 - Dec 31, 2005)

- Major team inspections performed in 2005
 - ▶ Problem Identification and Resolution
 - ▶ Modifications/50.59

DAEC

Annual Assessment Summary

(Jan 1 - Dec 31, 2005)

- NMC operated DAEC in a manner that preserved public health and safety.
- All cornerstone objectives were met with no greater than Green Findings identified.
- NRC plans baseline inspections at DAEC for the remainder of the assessment period.

Licensee Response and Remarks

Gary Van Middlesworth

Site Vice President DEAC

Florida Power & Light Energy Duane Arnold 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
 - ▶ 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)