

# Fermi Annual Assessment Meeting

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Reactor Oversight Program - CY 2004



Nuclear Regulatory Commission - Region III

Lisle, Illinois

May 25, 2005

# 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 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

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- Robert M. Lerch, Project Engineer
  - (630) 829-9759
- Stephen J. Campbell, Senior Resident Inspector
  - (734) 586-2798
- Timothy C. Steadham, Resident Inspector
  - (734) 586-2798

# Region III Organization

James L. Caldwell  
Regional Administrator

Geoffrey E. Grant  
Deputy Regional Administrator

Mark A. Satorius  
Director Division of Reactor Projects

Steven A. Reynolds  
Deputy Director

Cynthia D. Pederson  
Director Division of Reactor Safety

Roy J. Caniano  
Deputy Director

Eric Duncan  
Branch Chief

Regional Specialists

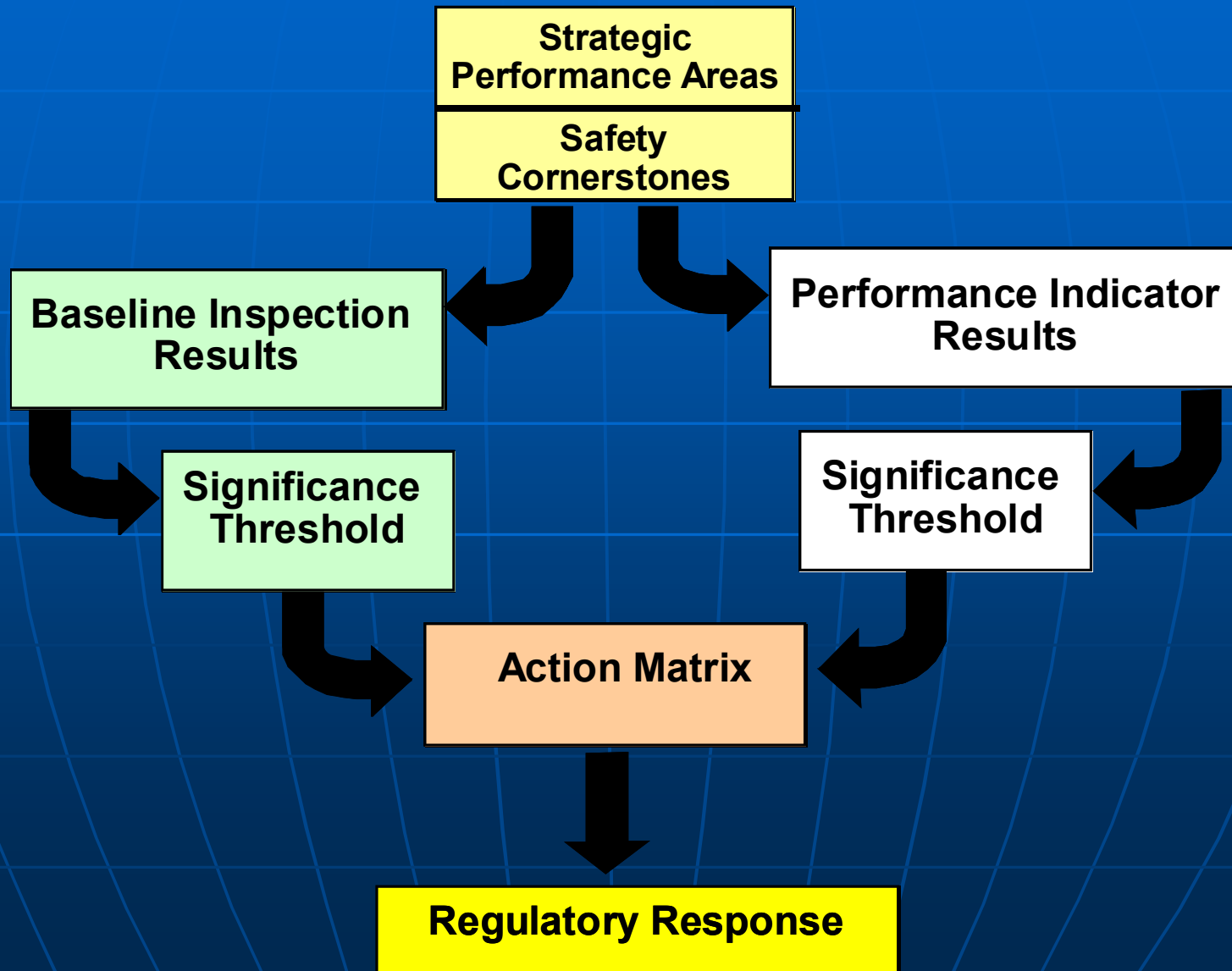
Fermi  
Resident Inspectors  
Stephen J. Campbell  
Timothy C. Steadham

Project Engineer  
Robert M. Lerch

# 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 ~92 hrs/yr
- Triennial Fire Protection ~200 hrs every 3 yrs
- Operator Response ~125 hrs/yr
- Emergency Preparedness ~80 hrs/yr
- Rad Release Controls ~100 hrs every 2 yrs
- Worker Radiation Protection ~100 hrs/yr
- Corrective Action Program ~200 hrs every 2 yrs
- Corrective Action Case Reviews ~60 hrs/yr



# Significance Threshold

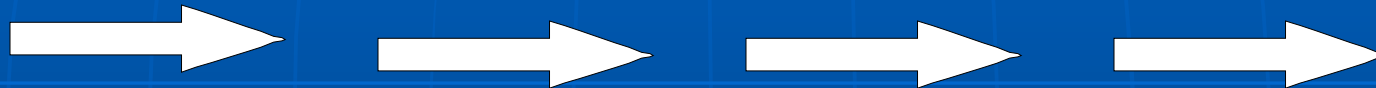
## Performance Indicators

- 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 2004

Licensee Response	78
Regulatory Response	21
Degraded Cornerstone	0
Multiple/Repetitive Degraded Cornerstone	3
Unacceptable	0
<b>Total</b>	<b>102*</b>

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\*Davis-Besse is in IMC 0350 process

# National Summary

- Performance Indicator Results (at end of CY 2004)

▶ Green	1834
▶ White	6
▶ Yellow	0
▶ Red	0

- Total Inspection Findings (CY 2004)

▶ Green	778
▶ White	11
▶ Yellow	0
▶ Red	0

# Fermi Assessment Results

(Jan 1 - Dec 31, 2004)

- Regulatory Response Column: Based on one White PI in the Mitigating Systems Cornerstone from Q3, 2003, for which Supplemental Inspection Procedure (IP) 95001 was conducted.
- All other PIs and inspection findings were of very low safety significance (Green).

# Fermi Inspection Activities

(Jan 1 - Dec 31, 2004)

- 1375 Hours of Total Baseline Inspection by Resident and Regional Inspectors.
- 13 Green findings in the Reactor Safety Strategic Performance Area.
- November 5 to December 3, 2004 refueling outage.

# Fermi Inspection Activities

(Jan 1 - Dec 31, 2004)

- White PI - Supplemental Inspection.
- Emergency Preparedness Exercise Inspection.
- Biennial Maintenance Rule Inspection .
- Biennial Permanent Plant Modifications and 10 CFR 50.59 Inspection.
- Inservice Inspection and Radiation Protection Inspection performed during refueling outage.

## Safety Significant Findings or PIs

- All inputs in the 2004 assessment period were Green with the exception of the one White PI from 2003.



# Cross-Cutting Issue

- In the letter dated March 2, 2005, the NRC identified a substantive cross-cutting issue in the area of human performance.
- This finding is based in part on 7 Green findings during the assessment period that exhibited a common theme of failure to follow procedures and personnel errors .

# Cross-Cutting Issue

- Reduction in the number, significance, and common causality is needed to resolve this issue.
- NRC will monitor plant performance in this area through the baseline inspection program and evaluate the results in our semi-annual trend review at the mid-cycle assessment point.

# Fermi Annual Assessment Summary

January 1 - December 31, 2004

- Detroit Edison operated Fermi in a manner that preserved public health and safety.
- NRC plans baseline inspections at Fermi for calendar year 2005.

# Licensee Response and Remarks

William O'Connor, Jr.

Vice President

Nuclear Generation

Fermi Power Plant

# Contacting the NRC

- Report an emergency
  - ▶ (301) 816-5100 (call collect)
- Report a safety concern
  - ▶ (800) 695-7403
  - ▶ [Allegation@nrc.gov](mailto:Allegation@nrc.gov)
- Region III office
  - ▶ (630) 829-9500
- General information or questions
  - ▶ [www.nrc.gov](http://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)