### **D.C.** Cook Performance Meeting

#### Supplemental Inspection - Inspection Procedure 95002 Exit Meeting



Nuclear Regulatory Commission - Region III Lisle, Illinois May 12, 2004

## **NRC Representatives**

Patrick Hiland, Acting Deputy Division Director, DRP
 (630) 829-9601

#### • Brian Kemker, Senior Resident Inspector

- (269) 465-5353

#### • Ivy Netzel, Resident Inspector

- (269) 465-5353

#### • Eric Duncan, Branch Chief

- (630) 829-9628

Steve Burton, Inspection Procedure 95002 Team Leader
 (763) 295-2066

## Agenda

Review of Reactor Oversight Process
Discussion of D.C. Cook Performance
Inspection Procedure 95002 Inspection Results
Licensee Response and Remarks
NRC Closing Remarks
NRC Available to Address Public Questions

### **NRC Performance Goals**

• Maintain safety and protect the environment

• Enhance public confidence

 Improve effectiveness, efficiency, and realism of processes and decision making

• Reduce unnecessary regulatory burden

# **Regulatory Framework**



#### **Reactor Oversight Process**



## **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**



# **Purpose of Today's Meeting**

- Provide a public forum for the discussion of D.C. Cook performance
- NRC to discuss D.C. Cook performance issues identified during the IP 95002 inspection
- D.C. Cook management will respond to the information presented and inform the NRC of new or existing programs to maintain or improve their performance

### **D.C. Cook Performance Summary**

- AEP has operated D.C. Cook in a manner that preserves public health and safety. All cornerstone objectives are being met.
- Unit 1 is in the Regulatory Response column of the Action Matrix.
- Unit 2 is in the Degraded Cornerstone column of the Action Matrix. Two Unit 2 White performance indicators at the end of the assessment period represented a moderate degradation in safety performance.
- One substantive cross-cutting issue in the Problem Identification and Resolution area remains open.
- NRC continues to conduct baseline inspections at D.C. Cook for the assessment period and performed a supplemental inspection to review the White performance indicators.

#### **White Performance Indicators**

- Two Unit 2 White performance indicators in the Initiating Events cornerstone were identified during the 2003 assessment period placing Unit 2 in the Degraded Cornerstone column of the Action Matrix.
- A White performance indicator in the Unplanned Scrams Per 7000 Critical Hours area was identified in 4Q03.
- A White performance indicator in the Scrams With Loss of Normal Heat Removal area was first identified in 2Q03 and updated in 4Q03 to reflect crossing the Green/White threshold in 3Q02.

# D.C. Cook Performance Indicators



## D.C. Cook Supplemental Inspection Activities

- A Supplemental Inspection to review the Scrams With Loss of Normal Heat Removal White performance indicator was conducted in accordance with IP 95001, "Inspection For One or Two White Inputs in a Strategic Performance Area," and was completed on November 21, 2003.
- A Supplemental Inspection to review the White finding in the Public Radiation cornerstone of the Radiation Safety Strategic Performance Area in accordance with IP 95001 is in progress and scheduled to be completed next week.

# D.C. Cook Supplemental Inspection Activities

- A Supplemental Inspection to collectively review the Scrams With Loss of Normal Heat Removal and Unplanned Scrams Per 7000 Critical Hours White performance indicators was conducted from April 19 to April 30, 2004
- Inspection conducted in accordance with IP 95002, "Inspection For One Degraded Cornerstone Or Any Three White Inputs On A Strategic Performance Area"

# D.C. Cook Inspection Procedure 95002 Inspection Objectives

- To provide assurance that the root causes and contributing causes are understood for the individual and collective performance issues.
- To independently assess the extent of condition and the extent of cause for the individual and collective performance issues.
- To provide assurance that licensee corrective actions for the performance issues are sufficient to address the root causes and contributing causes, and to prevent recurrence.

# D.C. Cook Inspection Procedure 95002 Inspection Results

- The issues were inspector-identified and self-revealing
- The issues were evaluated from a risk perspective
- Prior trends were not evaluated with respect to the collective nature of the scrams
- Prior opportunities for identifying the causal factors for the scrams were not recognized
- A systematic method was used for evaluating the causal factors
- The evaluation was completed at a level of detail commensurate with the safety significance of the issue

# D.C. Cook Inspection Procedure 95002 Inspection Results

- Corrective actions to address the contributing causes were appropriate
- Integration of corrective action items with the recovery plan was inconsistent
- Traditional schedules for completion & measures for success had not been established
- Key performance indicators and managerial controls were established that could be effective in managing the corrective actions
- The inspectors extent of condition and extent of cause review identified no significant deficiencies

# D.C. Cook Inspection Procedure 95002 Inspection Results

#### Summary

- Proper integration of the recovery plan and the corrective action program is paramount to ensure success with correcting the identified causal factors
- Of the causal factors identified, a common denominator was an ineffective corrective action program
- Plant events not collectively evaluated to identify corrective actions to improve plant performance

## **Licensee Response and Remarks**

Joseph Jensen Site Vice-President Indiana Michigan Power Company

## **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**

#### • <u>Reactor Oversight Process</u>

http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/index.html

### • Public Electronic Reading Room

http://www.nrc.gov/reading-rm.html

<u>Public Document Room</u>
 1-800-397-4209 (Toll Free)

# **Public Comment Opportunity**

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