



# **Briefing on the Agency Action Review Meeting for the Reactor Oversight Process**

**May 31, 2007**

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# **Agenda**

- **Industry Trends Program –  
Elmo Collins, NRR**
- **ROP Self-Assessment –  
Elmo Collins, NRR**
- **Individual Plants**
  - **Perry: Jim Caldwell, RIII**
  - **Point Beach: Jim Caldwell, RIII**
  - **Palo Verde: Bruce Mallett, RIV**

# **Reactor Industry Trends Program**

- **Identifies Trends In Safety Performance**
- **Communicates Performance To Stakeholders**
- **Provides Feedback To ROP**
- **Supports NRC Performance Goals**

# **FY 2006 Results**

- **No Statistically Significant Adverse Trends In Safety Performance Based On Long-term Trending Through FY 2006**
- **No Short-term Prediction Limits Were Exceeded In FY 2006**
- **No Significant Accident Sequence Precursors**

# **Indicator Development**

- **New Industry-Wide Indicator –  
Baseline Risk Index For Initiating  
Events (BRIIE)**
- **Risk-Informed Measure of Reactor  
Plant Challenges**
- **Included In FY 2007 Report**

# **ROP Self-Assessment**

- **Reviewed Against Program Goals**
- **Covered Major ROP Areas**
  - **Performance Indicators**
  - **Inspection**
  - **Significance Determination**
  - **Assessment**
  - **Resources**

# **Overall Results**

- **Met Performance Goals and Achieved Intended Safety Outcomes**
- **Focused Resources on Performance Issues**
- **Meaningful Stakeholder Input**

# **Performance Indicator Program**

## **Significant Activities/Results**

- **Performance Indicators Add Value**
- **NRC Has Responded To A Number Of Indicators Crossing Thresholds**
- **Added MSPI In April, 2006**



# **PI Program (cont)**

## **Challenges/Planned Actions**

- **Broad Range of Stakeholders Cite Need To Improve PIs**
- **Implement Unplanned Scrams With Complications PI**
- **Continue To Address MSPI Issues**
- **Explore PI Revisions To Improve Identification of Plants With Declining Performance**

# **Inspection Program**

- **Significant Activities/Results**
  - **Verified Plants Operated Safely**
  - **Formalized Process For Aligning Inspection Resources**
  - **Conducted Engineering Inspections**
  - **All Ten Performance Metrics Met**

# **Inspection Program (cont)**

- **Challenges And Planned Actions**
  - **Implement Realignment Process And Adjust Resources As Necessary**
  - **Complete Revised Engineering Inspections At Remaining Sites**
  - **Monitor Changes To Program To Incorporate Safety Culture**

# **Significance Determination Process**

- **Significant Activities/Results**
  - **Improvements In Determining Safety Significance Of Findings**
  - **Completed Remaining Objectives Of SDP Improvement Plan**
  - **Streamlined Process And Began Training On Pre-solved Tables**
  - **Seven Of Eight Metrics Met**

# **Significance Determination Process (cont)**

- **Challenges And Planned Actions**
  - **Monitor Process Improvements  
To Ensure Continued SDP  
Timeliness**
  - **Provide Additional Guidance  
And Training On Pre-solved  
Tables**

# **Assessment Program**

- **Significant Activities/Results**
  - **Focused Resources On Performance Issues**
  - **Completed Safety Culture Enhancements And Training**
  - **All Ten Metrics Met**

# **Assessment Program (cont)**

- **Challenges/Planned Actions**
  - **Continue To Monitor Implementation Of Safety Culture Enhancements**
  - **Continue Monitoring Consistency**
  - **Implement Commission Direction to Meet With Licensee Senior Management**

# **ROP Deviations**

- **Waterford Unit 3 – June 2006**
- **Indian Point Unit 2 – December 2006**
- **Davis-Besse – August 2006**
- **No Additional Programmatic Changes Required**



# **Resources/Resident Demographics**

- **Resource Expenditures Stabilized After 3 Years With Increases**
- **Demographic Trends In CY 2006**
  - **Experience Level Remains High**
  - **Site Staffing Levels Steady**
  - **Resident Turnover Rate Not Excessive**
- **Continuing To Closely Monitor Resident Demographics And Site Staffing in 2007**

# **Plant Discussion Point Beach**

- **Reason for Discussion**
  - **Column IV Since April 2003**
- **Current Performance**
  - **Confirmatory Action Letter Closed**
  - **One Yellow and Three Red Findings Closed**
  - **Column IV Oversight Ended**

# **Plant Discussion – Perry**

- **Reason for Discussion**
  - **Column IV Since August 2004**
- **Current Performance**
  - **CAL Closed**
  - **Two White Findings Closed**
  - **PI&R/HP Cross-Cutting Issues Closed**
  - **Column IV Oversight Ended**

# **Plant Discussion - Palo Verde**

- **Reason for Discussion**
  - **Entered Column IV December 2006**
- **Current Performance**
  - **2004 Yellow Finding Remains Open**
  - **White Finding Recently Issued**
  - **Two Cross-Cutting Issues Open Since 2005**
  - **Operational Challenges**

# **Plant Discussion - Palo Verde**

- **Next Steps**
  - **Licensee Self-Assessment**
  - **CAL**
  - **NRC Safety Culture Assessment**

# **2006 ROP Summary**

- **Column IV Plants**
- **No Adverse Industry Performance Trends**
- **ROP Continues To Improve and Provide Appropriate Oversight**

# List of Acronyms

- **AARM** – **Agency Action Review Meeting**
- **ASP** – **Accident Sequence Precursor**
- **BRIIE** – **Baseline Risk Index for Initiating Events**
- **CAL** – **Confirmatory Action Letter**
- **CDBI** – **Component Design Bases Inspection**
- **CY** – **Calendar Year**
- **EDO** – **Executive Director for Operations**
- **FENOC**– **FirstEnergy Nuclear Operating Company**

# List of Acronyms (cont)

- **FY** – **Fiscal Year**
- **GAO** – **Government Accountability Office**
- **HP** – **Human Performance**
- **IMC** – **Inspection Manual Chapter**
- **IP** – **Inspection Procedure**
- **ITP** – **Industry Trends Program**
- **MD** – **Management Directive**
- **MSPI** – **Mitigating Systems Performance Index**
- **NRR** – **Nuclear Reactor Regulation**



# List of Acronyms (cont)

- **OIG** – **Office of the Inspector General**
- **PI** – **Performance Indicator**
- **PI&R** – **Problem Identification and Resolution**
- **PRA** – **Probabilistic Risk Assessment**
- **ROP** – **Reactor Oversight Process**
- **SC** – **Safety Culture**
- **SDP** – **Significance Determination Process**
- **SSU** – **Safety System Unavailability**