



U.S. NRC

UNITED STATES NUCLEAR REGULATORY COMMISSION

Protecting People and the Environment

**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**