

**U.S.NRC**

UNITED STATES NUCLEAR REGULATORY COMMISSION

*Protecting People and the Environment*

# **Briefing on the Results of the Agency Action Review Meeting**

**June 4, 2008**

**Bill Borchardt, EDO**

# **Agenda**

- **Individual Plants**
  - **Perry: Jim Caldwell, RIII**
  - **Palo Verde: Elmo Collins, RIV**
- **ROP Self-Assessment – Eric Leeds, NRR**
- **Industry Trends Program – Eric Leeds, NRR**

# **Agenda (cont.)**

- **Materials and Waste Programs Performance: Charles Miller, FSME**
- **Facility Discussion**
  - **Nuclear Fuel Services, Inc. : Victor McCree, RII**

# **Plant Discussion- Perry**

- **Reason for Discussion**
  - **Column IV – 1<sup>st</sup> quarter 2007**
- **Performance Since Exiting Column IV**
  - **Column II – Two White PIs in Mitigating Systems**
  - **Substantive Cross-Cutting issue in Human Performance**

# **Plant Discussion - Palo Verde**

- **Entered Column IV December 2006**
- **Summary of Recent Activities**
  - **95003 Inspection**
  - **Revised CAL**
  - **Palo Verde Improvement Plan**

# **Plant Discussion - Palo Verde**

- **Current Performance Assessment**
  - **Some Improvements noted**
  - **Continuing Challenges**
- **Actions Going Forward**
  - **Conduct CAL Inspections**
  - **Conduct Periodic Public Meetings**

# **ROP Self-Assessment**

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

# **Commission Guidance**

- **ROP Action Matrix Changes**
- **Resident Inspector Demographics**
- **Continue to Improve the Performance Indicator Program**
- **Annual Assessment Press Release**



# **Discussion Topics**

- **2007 Deviations Granted**
- **ROP Enhancements**
- **ROP Resources**
- **Security Openness**

# **Reactor Industry Trends Program**

- **Identifies Trends in Safety Performance**
- **Communicates Performance To Stakeholders**
- **Complements the ROP**
- **Supports NRC Performance Goals**

# **FY 2007 Results**

- **No Statistically Significant Adverse Trends in Safety Performance**
- **No Short-term Prediction Limits Were Exceeded**
- **No Significant Accident Sequence Precursors**

# **Indicator Development**

- **New Industry-Wide Indicator –  
Baseline Risk Index For  
Initiating Events (BRIIE)**
- **Commission SRM actions  
completed**
- **Will be included in FY 2008  
Report**

# **Materials and Waste Programs Performance Objective**

- **Provide a summary of the materials and waste program's performance**
- **Discuss changes made to the Nuclear Material Events Database Report**

# **Performance Evaluation Program**

- **Systematic review of available data to identify significant:**
  - **Operational performance trends**
  - **Licensee performance issues**
  - **NRC program issues/gaps**

# **Performance Criteria**

- **Strategic Outcomes**
- **Performance Measures**
- **Abnormal Occurrences**
- **Significant Enforcement Actions**
- **SECY-02-0216 Criteria**
- **Trending review of Event Data**

# **Strategic Outcomes & Performance Measures**

- **All goals were met in FY 2007**



# **Abnormal Occurrences**

- **Eleven abnormal occurrences (AOs) in FY 2007**
- **All AOs in FY 2007 were medical related events**
- **No discernable trends on total number of AOs or when comparing NRC and Agreement State AO Data**

# **Escalated NRC Enforcement Actions**

- **84 escalated enforcement actions from October 1, 2006 thru December 31, 2007**
- **One enforcement action resulted in a severity level II violation**

# **Licensee Performance / NRC Program Gaps**

- **No nuclear materials licensee met the significant performance issues criteria**
- **No significant trending issues identified**
- **No NRC program gaps or failures identified**

# **New NMED Report**

- **Focuses on high risk-significant events**
- **Shows comparison between NRC and Agreement States**
- **Changes focus from a quarterly to an annual basis**
- **Adds IAEA Categorization to lost & stolen source events**

# **Trending Review of Event Data**

- **Reviewed 10 years - 5,053 events during this period**
- **No significant performance trends identified**
- **No significant change from previous 10 year period (5,260 events)**

# **Review of Portable Gauge Losses & Thefts**

- **Data Reviewed to determine:**
  - **Any trends in the area of portable gauge losses and thefts in general.**
  - **Any measurable results from the 30.34(i) rulemaking that became effective in 2005.**

# **Review of Portable Gauge Losses & Thefts**

- **No clear trend**
  - **Short term data shows possible drop in losses and thefts after 2005**
- **Need to continue to watch over the next 2-3 years.**

# **Materials Licensee Briefing on Nuclear Fuel Services, Inc.**

- **Reasons for Discussion**
- **NRC Actions**
- **Current Performance**
- **Independent Safety Culture Assessment**
- **Next Steps**



# **Conclusions**

- **All strategic and performance goals were met in FY 2007**
- **No changes made to NRC oversight plans**
- **No adverse performance trends identified**

# List of Acronyms

- **AARM – Agency Action Review Meeting**
- **AO – Abnormal Occurrence**
- **ASP – Accident Sequence Precursor**
- **BRIIE – Baseline Risk Index for Initiating Events**
- **CAL – Confirmatory Action Letter**
- **EDO – Executive Director of Operations**

# List of Acronyms (cont)

- **FMSE** – **Office of Federal and State Materials and Environmental Management Programs**
- **IMC** – **Inspection Manual Chapter**
- **IP** – **Inspection Procedure**
- **ITP** – **Industry Trends Program**
- **MD** – **Management Directive**
- **NMED** – **Nuclear Material Events Database**

# **List of Acronyms (cont)**

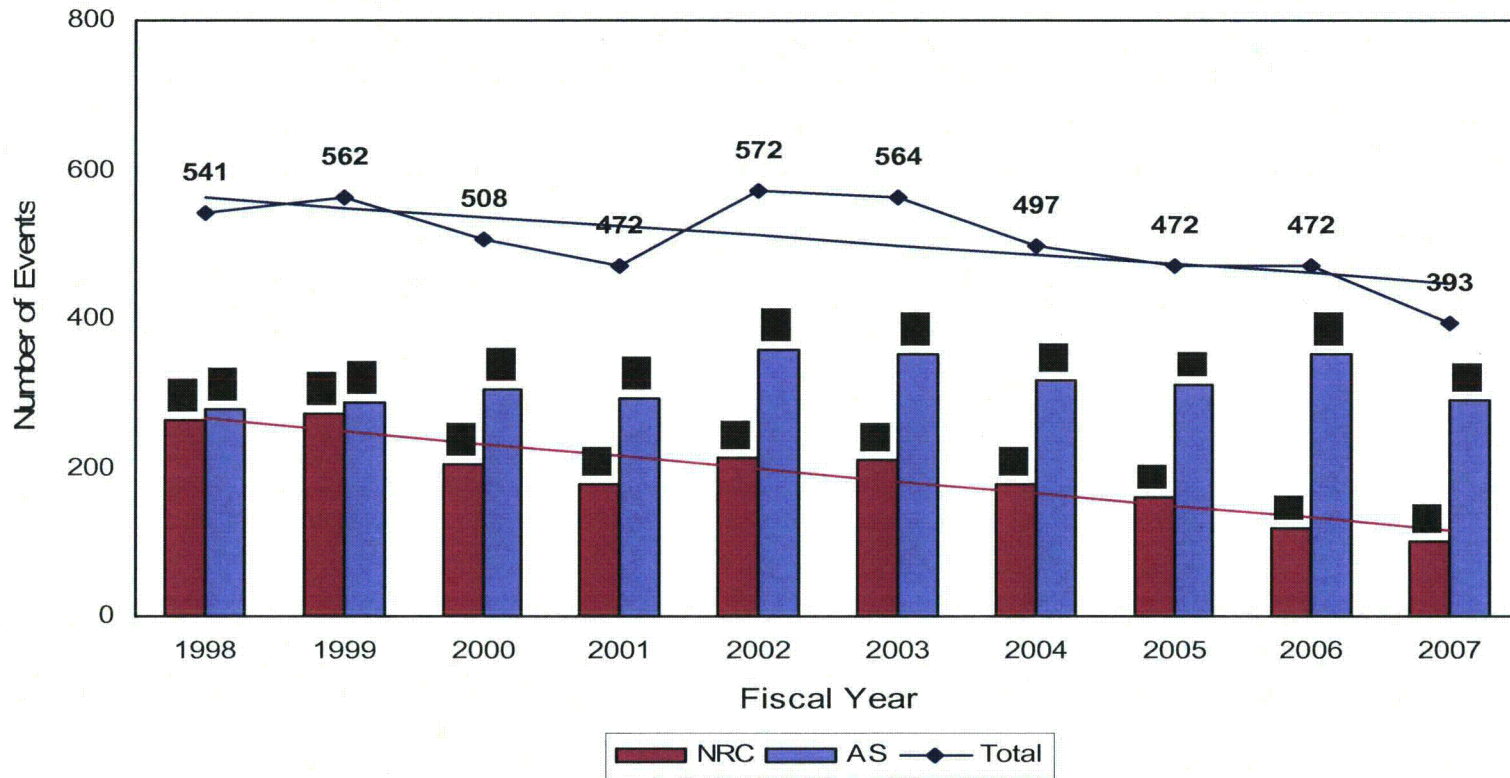
- **NMSS** – **Nuclear Material Safety and Safeguards**
- **NRC** – **Nuclear Regulatory Commission**
- **PI** – **Performance Indicator**
- **PI&R** – **Problem Identification and Resolution**
- **PRA** – **Probabilistic Risk Assessment**

# **List of Acronyms (cont)**

- **RII – Region II**
- **RIII – Region III**
- **RIV – Region IV**
- **ROP – Reactor Oversight Process**
- **SDP – Significance Determination Process**
- **SRM – Staff Requirements Memorandum**

# **Backup Slides**

# New NMED Report



# New NMED Report

Table 1. Summary of Trending Analysis

Event Type	Total	NRC	Agreement State
All NMED Events	↘	↘	-
Lost/Abandoned/Stolen Material (LAS)	-	↘	↗
Medical (MED)	-	↘	-
Radiation Overexposure (EXP)	-	-	-
Release of Licensed Material or Contamination (RLM)	↘	↘	↘
Leaking Sealed Source (LKS)	-	↘	-
Equipment (EQP)	↘	↘	-
Transportation (TRS)	-	-	-
Other (OTH)	NA	NA	NA

Notes:

- ↗ indicates a statistically significant increasing trend.
- ↘ indicates a statistically significant decreasing trend.
- indicates no statically significant trend.
- NA indicates that the data does not support trending analysis.





# **Nuclear Regulatory Commission Briefing**

**June 4, 2008**

**Palo Verde Nuclear  
Generating Station**

Revised set 6/3/08

# **Opening Remarks**

**Bill Post**

**Chairman of the Board  
APS**

**Don Brandt**

**Chief Executive Officer and President  
APS**



# **Oversight and Monitoring**

- **Nuclear Oversight Committee**
- **Off-site Safety Review Committee**
- **Nuclear Assurance Department**
- **Management Review Meetings**
- **Assessments/Benchmarking**

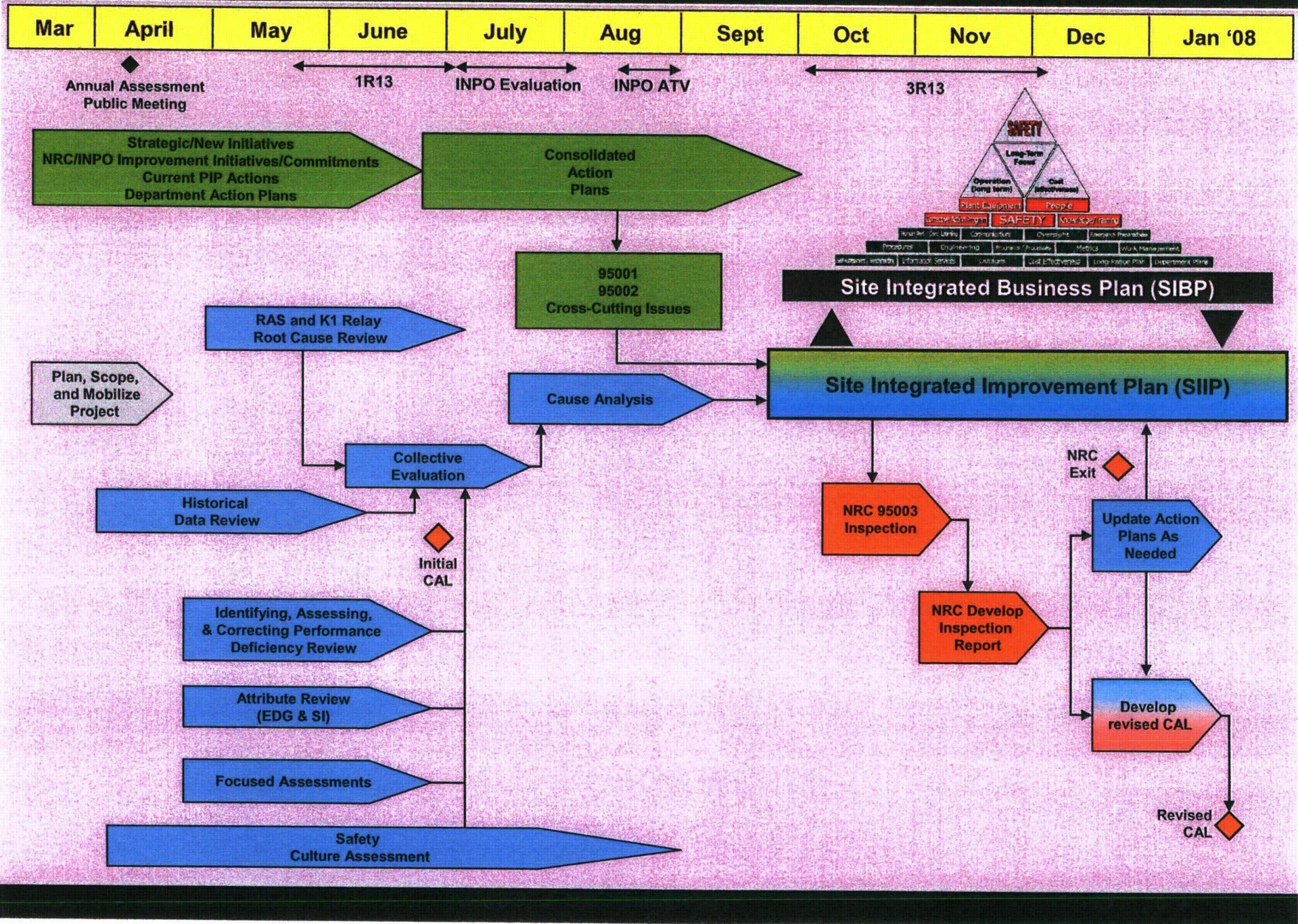


# **Oversight and Monitoring**

- **Closure Review Boards**
- **Effectiveness Review Challenge Boards**
- **Site Integrated Business and Improvement Plans Progress Meetings**



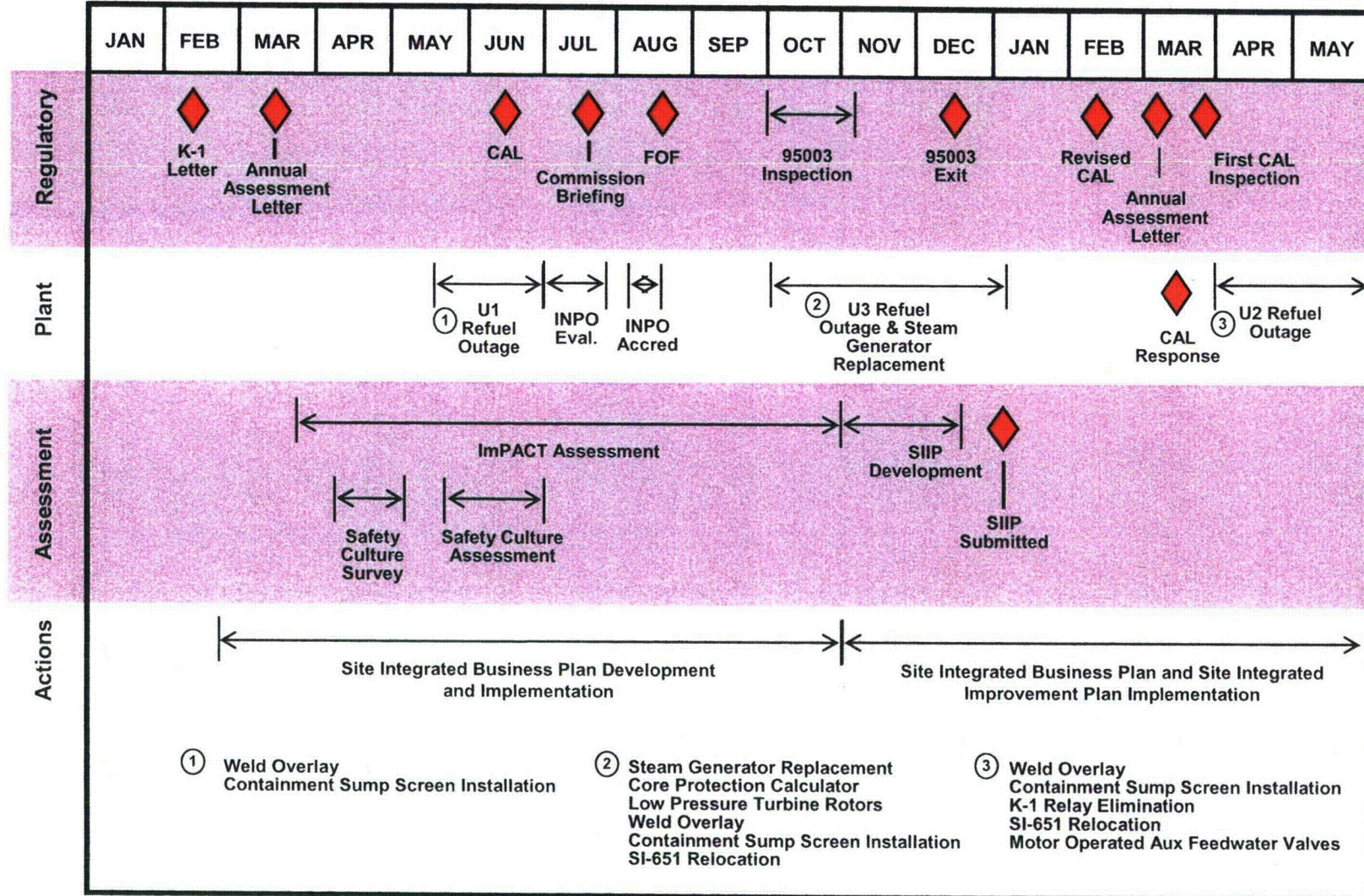
# Improving Palo Verde for the Long Term



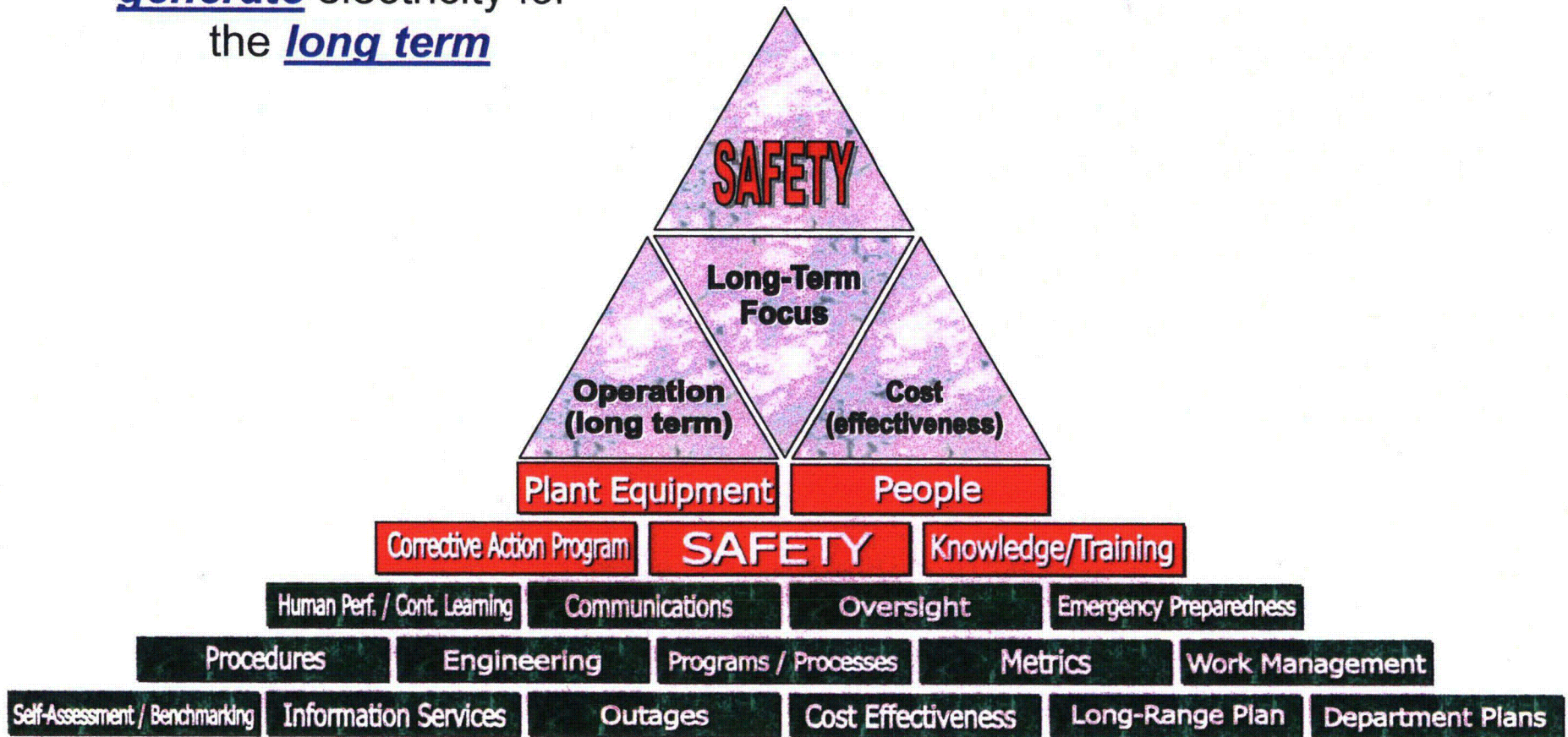
# Completed Activities

2007

2008

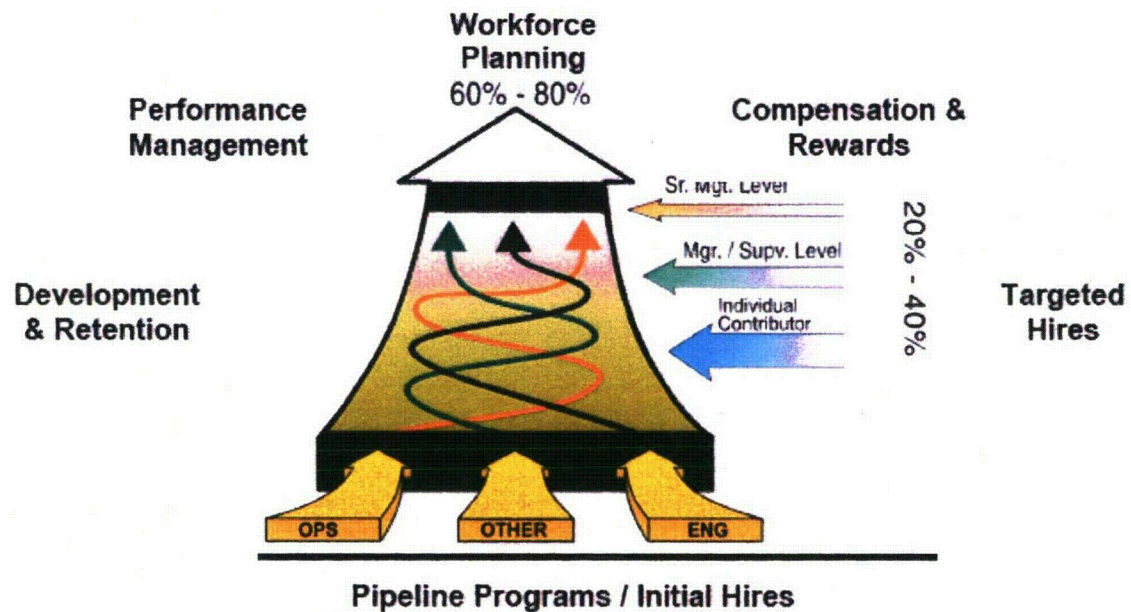


We **SAFELY** and efficiently  
**generate** electricity for  
the **long term**



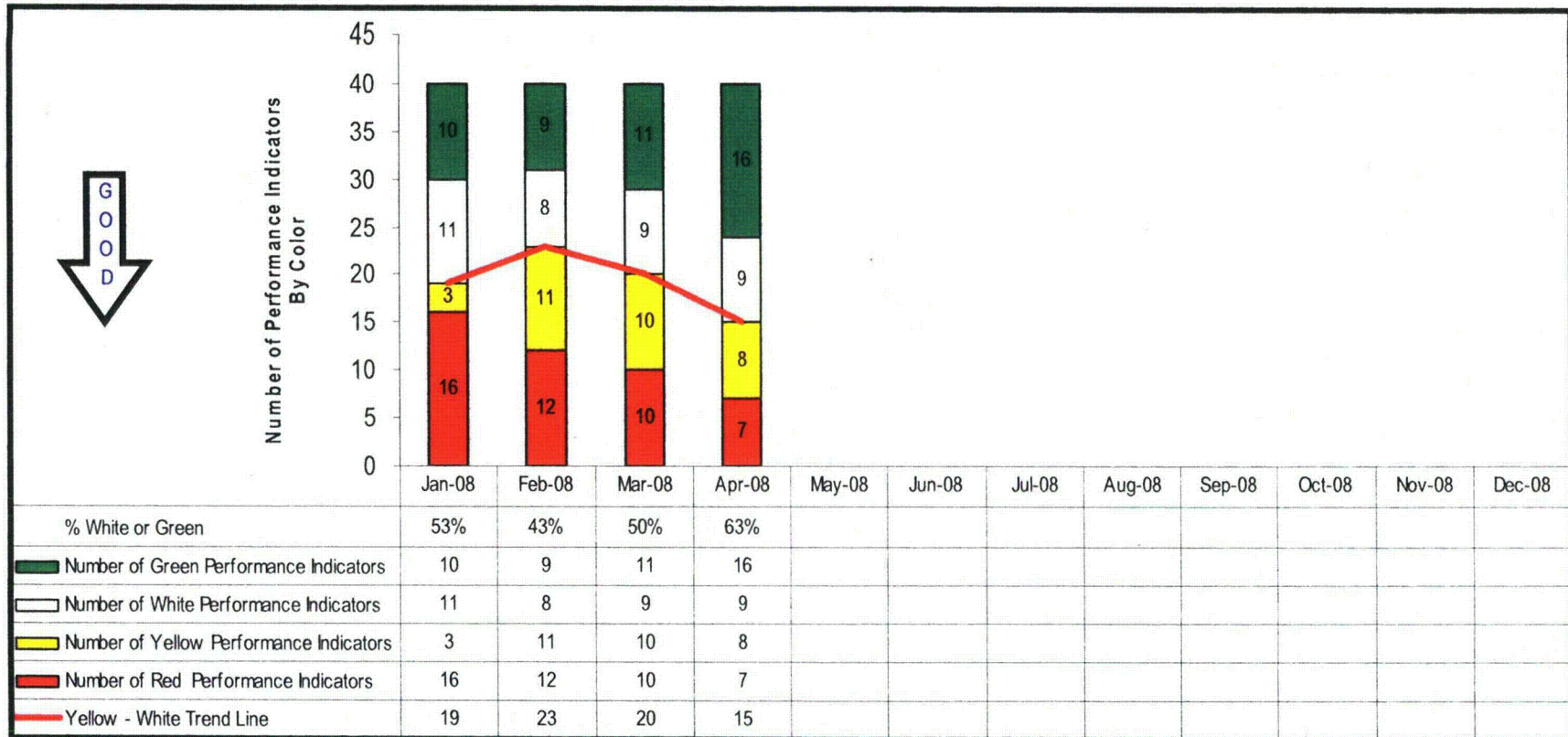
# People

## Hiring, Development, and Retention Model for OUR Future

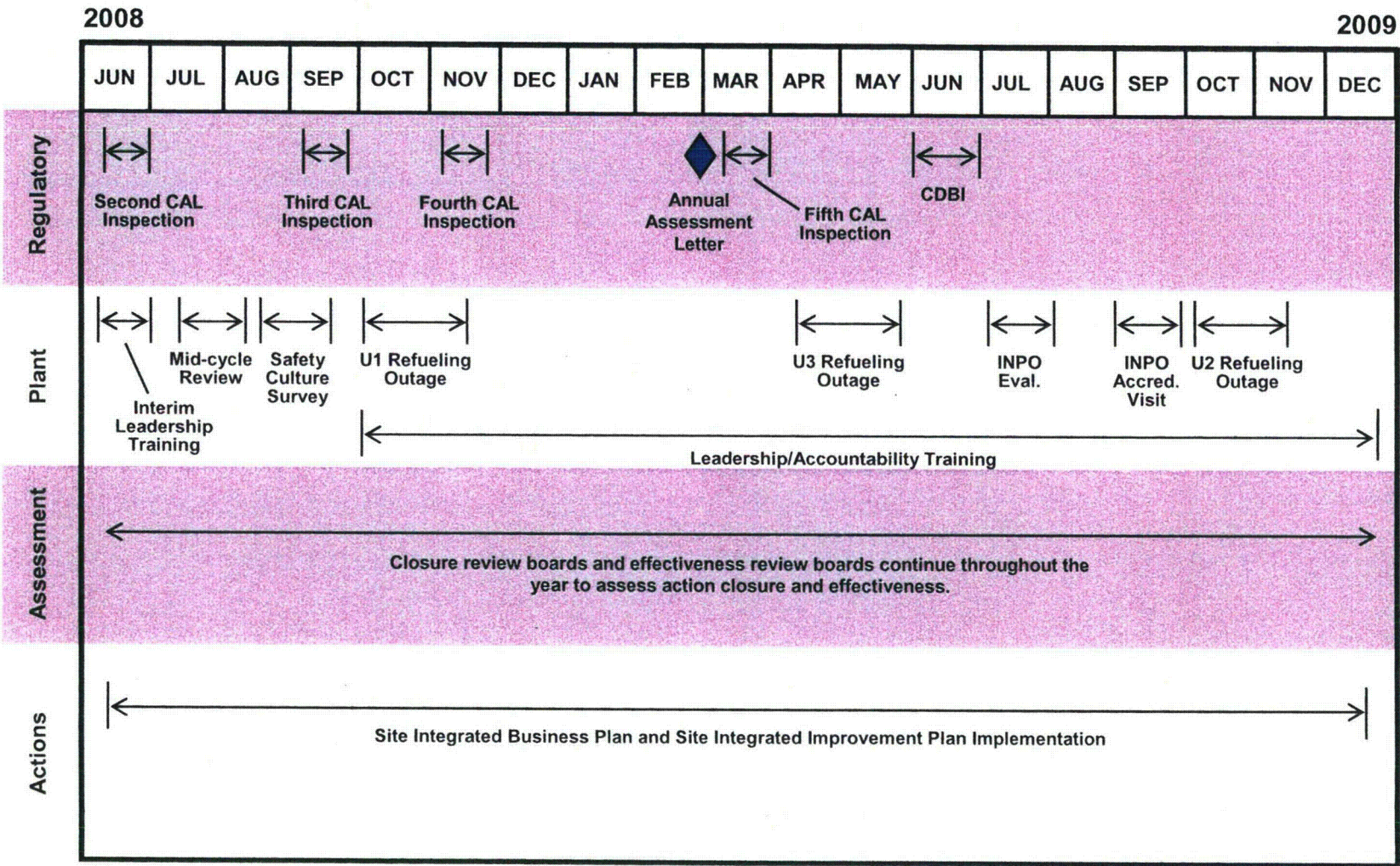




# Status of Core Performance Indicators



# Forecasted Activities



# Where we are going from here

- **Safety Emphasis – Continue**
  - Nuclear, Industrial, Radiological, Safety Culture
- **Improvement Plan – Execute**
  - Manage Volume/Priorities of other work
- **Field Execution – Focus**
  - Behaviors and Standards
- **Equipment Upgrades - Continue**
- **Knowledge / Training – Emphasize**
- **Programs / Processes – Upgrade**
- **Evaluations/Inspections – Progress**



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# **NFS' COMPREHENSIVE SAFETY CULTURE IMPROVEMENT INITIATIVE**

**June 4, 2008**

**Timothy E. Lindstrom  
Executive Vice President & General  
Manager**

# **Safety Performance**

- **Objective**
  - **LPR**
  - **Safety metrics**
  - **Management metrics**
- **Subjective**
  - **Employee feedback**
  - **Employee participation**
  - **Change management results**

# **Safety Culture Strategic Plan**

- **Initiated Sep. 2007**
- **Now incorporates and prioritizes major findings and recommendations (items) from the assessment**
- **Includes metric driven objectives**
- **Accountability integrated into monthly progress meetings**

# **Crosswalk of Items Maintained**

- **Prioritized / Assigned / Scheduled**
- **Over 200 individual items**
- **Very-high / high priority items are the current focus (2008 / early 2009)**
- **Lower priority items over the next few years**
- **Submitted to NRC / NRC will be routinely updated**



# **Major Initiative Areas**

## **Near Term Focus on Very-High and High Priority Key Areas:**

- Configuration Management**
- Human Performance**
- Management practices**
- Communications**
- Infrastructure and equipment improvements**