Palisades Nuclear Plant
NRC Safety Performance Assessment Meeting

Date: April 2, 2013
Entergy - Palisades

Site Vice President
Tony Vitale

Plant Manager
Tony Williams

Nuclear Safety Assurance Director
Charlie Arnone

Engineering Director
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Continued Commitment to Safety

• Nuclear Safety
  – Equipment Reliability
  – Operational Excellence
  – Improve as a Learning Organization
  – Risk identification and mitigation

• Industrial Safety
  – Electrical worker practices

• Radiological Safety
  – Collective Radiation Exposure (CRE) Reduction
    • People
    • Equipment
The Road to Recovery

Regulatory Recovery
- NRC 95001
- NRC 95002
- 3rd Party Nuclear Safety Culture Assessment

Phase 1 Recovery Plan
(Immediate change/decisive actions)
- Leadership Effectiveness
- Safety Culture
- Equipment Reliability
- Corrective Action Program Effectiveness
- Refueling Outage Performance

Phase 2 Recovery Plan
- Leadership Effectiveness
- Operational Excellence
- Learning Organization
- Equipment Reliability
- Radiological Performance Improvement

Phase 3 Recovery Plan
- Excellence and Sustainability

- Halt Performance Decline
- Restore Stakeholder Confidence
- Find and Fix our Problems
- Operate Safely

Culture of Trust
Reinforce Phase 1 Actions
Correct Other Performance Gaps
Craft Ownership
Questioning Attitude

Return to ROP Column 1
Improve Safety Culture
Recover Regulatory Confidence

Platform 1 | Platform 2 | Platform 3 | Platform 4
---|---|---|---

Sep 2011 - Dec 2012 | | Dec 2012 – Sep 2013 | Sep 2013
Phase 1 Recovery

Primary Gaps Addressed
- Leadership Effectiveness
- Safety Culture
- Corrective Action Program
- Equipment Reliability
- Refueling Outages

Desired Outcomes Achieved
- Leadership Engagement
  - Culture improved through communications
  - CA Program improvement
  - Improved WO & procedure quality
  - Event Free Outage performance
  - Improved Risk awareness and mitigation

Key Actions Completed
- Leadership skills assessments & actions
- 3rd party NSC assessment
- Improved communication protocols & practices
- Procedure /Process adherence expectations
- Causal analysis training
- CARB improvements
- Work Order & procedure quality improvements
- Work week planning process improvements
- Outage preparation focus – challenge boards

Key Metrics Used
- Operator Fundamentals Index
- On-line scope stability and adherence
- Condition Report generation rate
- Rework
- Management observation hours
- HU performance rates

“Building Upon the Foundation” – The Four Platforms

Sep 2011 - Dec 2012 ————————————
| Dec 2012 – Sep 2013 ————
| Sep 2013 ————
Phase 2 Recovery

Primary Gaps
- Leadership Effectiveness
- Operational Excellence
- Learning Organization
- Equipment Reliability
- Radiological Performance Improvement

Desired Outcomes
“Anchoring the Behaviors”
- Leadership Behaviors
- Culture of Trust
- Craft Ownership
- Succession Planning
- Organization Radiological Alignment
- Improved Plant Reliability

Key Actions
- Training to improve Observation & Leadership skills
- Engineering Leadership assessment s
- 5 year ALARA plan actions
- Supplemental worker performance improvement
- Causal Analysis Oversight & Grading training
- Work week reviews of equip classification
- DC/DNC schedule forecasting tool
- Diagnostic assessment of risk mitigation strategies
- Update Electrical Safety procedure

Key Metrics
- HU performance
- Communication survey effectiveness
- Leadership succession plan development
- Radiological dose improvement
- Causal analysis improvement
- Equipment Reliability Index (ERI)

“Building Upon the Foundation” – The Four Platforms
Phase 3 Recovery

Primary Gaps to be Evaluated
- Leadership Effectiveness
- Operational Excellence
- Learning Organization
- Equipment Reliability
- Radiological Performance Improvement

Key Actions

Key Metrics

Desired Outcomes
“Excellence and Sustainability”

“Building Upon the Foundation” – The Four Platforms

Entergy
SCCI Key Actions

• **H4c – Management Oversight**
  – Intrusive, engaged leaders ensuring adherence to standards
    • LEL Coaching Quality
    • WILL Sheets
    • Strategic In-field observation schedule

– **Supplemental Worker Control**
  • Apparent Cause Analysis completed with actions
  • OIT/HIT team process reinforcement
  • Critical maintenance step identification
  • Oral boards of supervisors
  • Strategic In-field observation schedule
Recent Achievements

• Completion of Operator License Class
• Maintenance & Technical Training Programs Accreditation Renewal
• Completed 95001 and 95002 Inspections/Return to Column 1
• Successful Refueling Outage
• Successful EP Evaluated Exercise
Commitment to Our Communities

- Palisades’ Open Grant program
  - $261,000
- Habitat for Humanity
  - 5 homes built; 6th starts in April
- 2012 United Way contributions $166,000.
- Local education
  - Van Buren Intermediate School District backpack give away
- South Haven nursing home “Giving Tree” program