

# Nuclear Quality Assessment

## Examples of Results

### Real-Time Issues Identified

- Operations failure to request Engineering rigor for operability determinations
- Failure to recognize Containment painting as a design change

# **Nuclear Quality Assessment**

## **Examples of Results**

### **Ensuring Product Quality**

- Vendor errors with implementation of feedwater flow modification
- Failure to comply with quality program requirements during overhaul of decay heat pump

# **Nuclear Quality Assessment**

## **Examples of Results**

### **Elevating Standards**

- **Posting and protection of Protected Train equipment**
- **Documentation standards for unit log keeping**
- **Potential corrosion of Containment Vessel**
- **Untimely corrective actions for previously identified Corrective Action Program weaknesses**

# Nuclear Quality Assessment

## Examples of Results

### 2nd Quarter Assessment Results

- Marginal performance for 5 of 11 areas in second quarter
- Two unacceptable performance issues

# Nuclear Quality Assessment

## Conclusion

QA is already improving our standards. We are not yet where we need to be, but we have identified our weaknesses and are formulating an improvement plan.

# Reactor Head Resolution Plan



***Bob Schrauder***

***Director -- Support Services***

# Reactor Head Resolution Plan

## Progress

- Replacement Head activities continue to support safe and reliable plant return to service during Fourth Quarter 2002.

# Reactor Head Resolution Plan

## Replacement Head Activities

- New head arrived at Davis-Besse on July 18, 2002
- All activities at Midland are complete
- Code Data Package compiled
- Code reconciliation compiled
- Design reconciliation compiled



## New Head and Cover Placed on Trailer



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## New Head Arrives at Davis-Besse



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# Reactor Head Resolution Plan

## Davis-Besse Activities

- Reactor Head prepared for removal
- Service Structure preparations complete
- Shield Building opening complete

## Davis-Besse Head Ready for Removal



## Shield Building Marked for Cutting



# Protection for the Start-Up Transformer



# Ready to Remove Concrete



## Backing Plate



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## First Layer of Rebar Exposed



# Shield Building Opening



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## Mock-Up for Containment Cutting



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# Containment Health Plan



*Randy Fast*  
*Plant Manager*

# Containment Health Plan Inspections

- **Containment Air Coolers**
  - Complete refurbishment
  - Replace plenum and turning vanes with stainless steel
  - Replace 2 motors; refurbish 1

# Removing Containment Air Cooler Coils



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# Containment Health Plan Inspections

- **Under Vessel Inspections**
  - Temporary modification for incores installed
  - Seal plate removed
  - Insulation removed
  - Hot Leg/Cold Leg/Core Flood Tank Nozzle Completed

# Containment Health Plan Inspections

- **Independent Inspections**
  - Training
  - Inspection status
  - Findings



# Containment Health Plan

- Decay Heat Valve Pit
  - Evaluating options



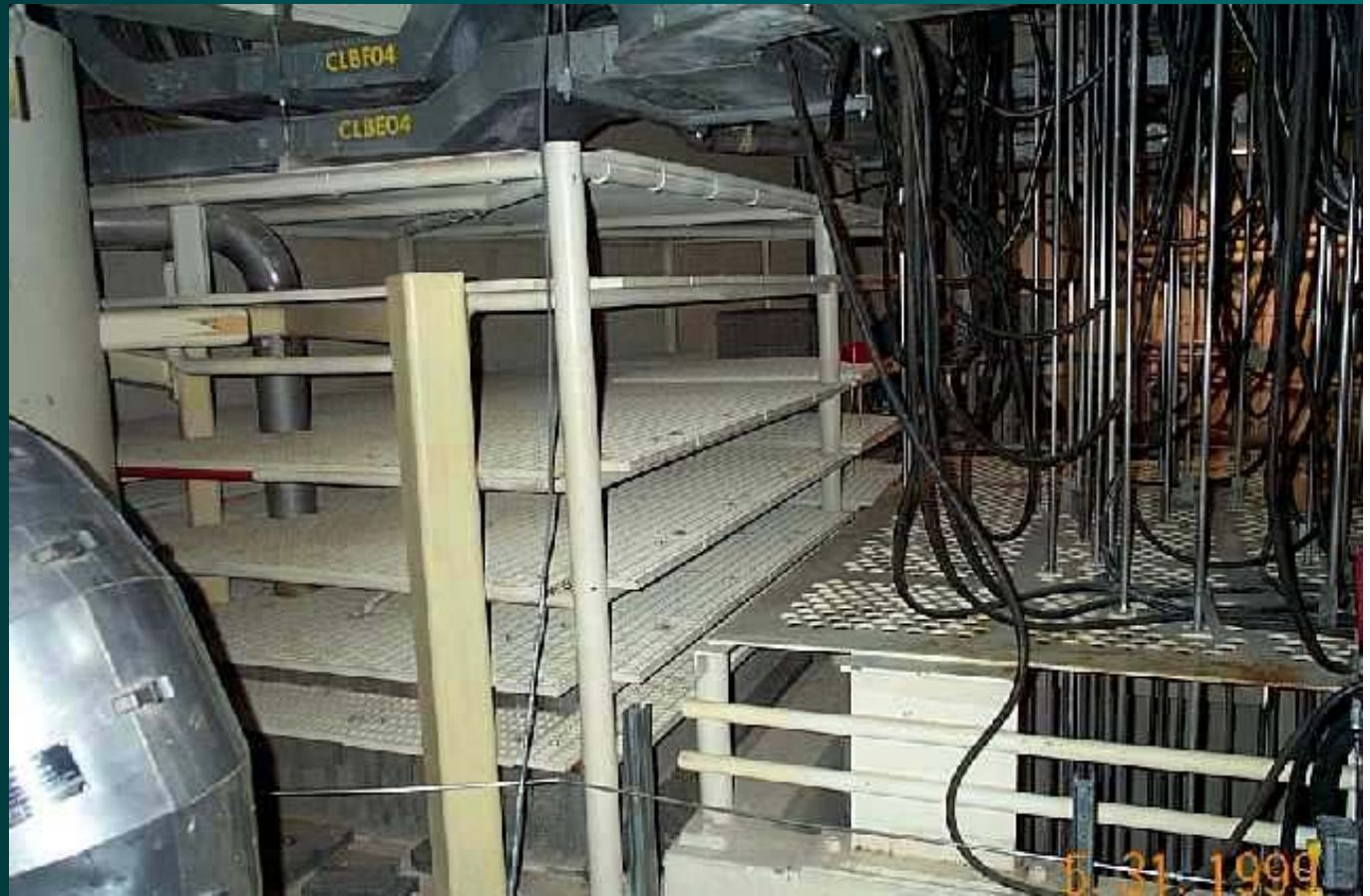
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# Containment Health Plan

- **Containment Pressure Vessel**
  - MIC
  - Corrosion
- **Equipment Qualification**
  - Walkdowns in progress

# Containment Health Plan

- Containment Emergency Sump
  - Improve margin



# Containment Health Plan

- **Containment Coatings**
  - Dome coating in progress

# Containment Dome Painting



# Containment Painting



# Containment Painting



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# Program Compliance Plan



*Jim Powers*

*Director - Technical Services*



# Program Compliance Plan

## Phase 1 Reviews

- 14 programs reviewed
  - 6 programs rated as satisfactory
    - Fire Protection Protection
    - Snubbers Program
    - Ventilation Filter Test Program
    - Corrosion and Erosion Analysis Program
    - Safety Tagging Program
    - Meteorological Monitoring

# Program Compliance Plan

## Phase 1 Reviews

- 8 programs require additional actions
  - Air Operated Valve Program
  - 10CFR50.59 Program
  - Foreign Material Exclusion Program
  - Software Control Program
  - Temporary Leak Seal Program
  - Severe Accident Management Program
  - Inservice Test Program
  - Appendix J Program

# Program Compliance Plan

## Phase 2 Reviews

- **Boric Acid Corrosion Control**
  - Walkdown Condition Reports to be effectively resolved
  - Ownership
  - Forward-Looking Program Linkages
  - Management Involvement
  - Organizational Interfaces

# Program Review Board



# Program Compliance Plan

## Phase 2 -- Program Review Board

- Corrective Action Program (August 29)
- Inservice Inspection (September 6)
- Probabilistic Safety Assessment (October 3)

# **System Health Assurance Plan**



***Jim Powers***

***Director -- Technical Services***

# System Health Assurance Plan

## System Readiness Reviews

- Discovery walkdowns on 31 systems completed
- Team included representatives from:
  - Maintenance
  - Operations
  - Engineering
  - Management

# System Health Assurance Plan

## Latent Issues

- 5 teams scheduled to present scope definition to Engineering Assessment Board
- Schedules and performance indicators developed
- Discovery walkdowns completed
- Teams relocated to Wellness Center



# System Health Assurance Plan

## Latent Issues

- Developing permanent plant procedures for walkdowns and Latent Issue Reviews to be used FENOC-wide
- 120v DC to be included in Latent Issue Review going forward

# Closing Remarks



*Lew Myers*  
*FENOC Chief Operating Officer*

## Conclusions

*We have confidence in our employees. This plant is their livelihood. They are well educated, technically sound, hard working, and proud members of this community.*

*Our people continue to be committed to a comprehensive approach to ensure Davis-Besse is ready for safe and reliable operation and sustainable performance.*