Davis-Besse Nuclear Power Station



Return to Service Plan Update
September 17, 2002



Introduction



Lew Myers FENOC Chief Operating Officer



Desired Outcomes

- Demonstrate that Davis-Besse is making progress toward restart.
- Discuss issues and our resolve to do the job correctly.
- Discuss the major restart milestones and the status of the Integrated Schedule.
- Discuss status of Technical Root Cause.
- Provide status of several Building Blocks.
- Demonstrate progress of activities through discussion of our Performance Indicators.
- Discuss our Restart Test Plan.



Milestones and Scheduled Activities



Mike Stevens Director - Work Management



Major Milestones

Major Restart Milestones

- Restore the Containment Vessel and Shield Building
- System Health Readiness Reviews
- System Health Latent Issues Reviews
- FENOC Decision Making procedure implemented
- Containment Extent of Condition Inspections and Evaluations
- Regulatory Compliance Program implemented
- Complete Program Reviews
- Conduct of Operations effectively implemented



Major Milestones

Major Restart Milestones

- Core Reload (October 30)
- Corrective Actions for Program and Systems Reviews implemented
- New Reactor Vessel Head on Reactor
- Enter Mode 5 (November 3)
- Reactor Coolant System Filled and Vented
- Management Restart Readiness Review
- Enter Mode 4 (November 19)



Major Milestones

Major Restart Milestones

- Enter Mode 3
- Full Pressure Containment Inspections
- Restart Overview Panel recommends restart
- NRC Approval for restart (November 18)
- Enter Mode 2 (December 4)
- Enter Mode 1
- Final Synchronization to Grid
- 100 % Power (December 7)



Major Activities

NRC Restart Checklist Items:

- Adequacy of Root Cause Determinations
- Adequacy of Safety Significant Structures, Systems, and Components
- Adequacy of Safety Significant Programs
- Adequacy of Organizational Effectiveness and Human Performance
- Readiness for Restart
- Licensing Issue Resolution
- Confirmatory Action Letter Resolution



Major Activities

Current Management Work Activities:

- Reactor Coolant System Hot Leg Thermowell
- Containment Emergency Sump
- Containment Coatings
- Safety System Design Performance Capability
 - Service Water System
 - High Pressure Injection System
 - 4160V Electrical Distribution System
- Condenser Coatings
- Emergency Diesel Generator Air Start



Major Activities

Current Management Work Activities:

- Feedwater Heater 1-6
- Reactor Coolant Pumps
- Polar Crane Reliability upgrades
- Reactor Cavity Permanent Seal
- Decay Heat Valve Pit
- Operator Work Arounds
- Temporary Modifications



Status of Technical Root Cause

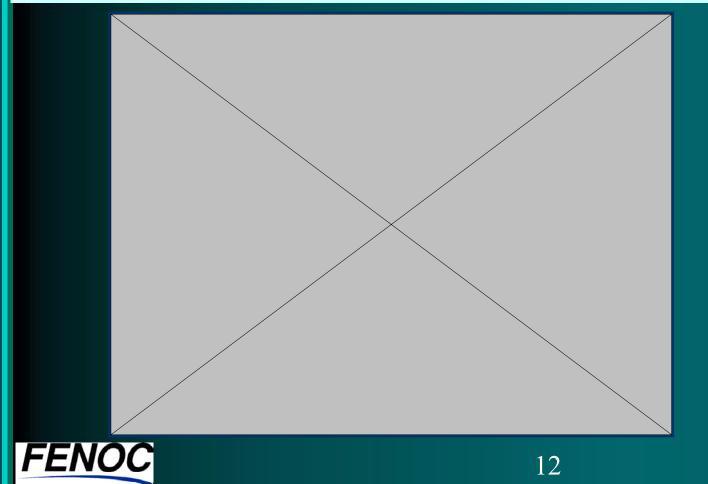


Jim Powers

Director -- Technical Services







Status of Technical Root Cause

Analysis Findings:

- A series of surface cracks found in lab
- Appears to be approximately 2-inches at weld pass
- Does not extend through the cladding
- Clad found thinner in lab measurements



Reactor Head Restoration



Bob Schrauder
Director -- Support Services



Reactor Head Resolution Plan

Replacement Head Activities

- Old head is removed and in storage
- New head is inside Containment and on its stand
- Service Structure ready for installation
- Containment Restoration underway



Reactor Head Resolution Plan

Difficulties Addressed

- Work delayed due to Polar Crane upgrades
- Stopped work while restoring containment to resolve work practice and quality issues
 - Work completed was not impacted
 - Recovery Plan approved and work was allowed to proceed



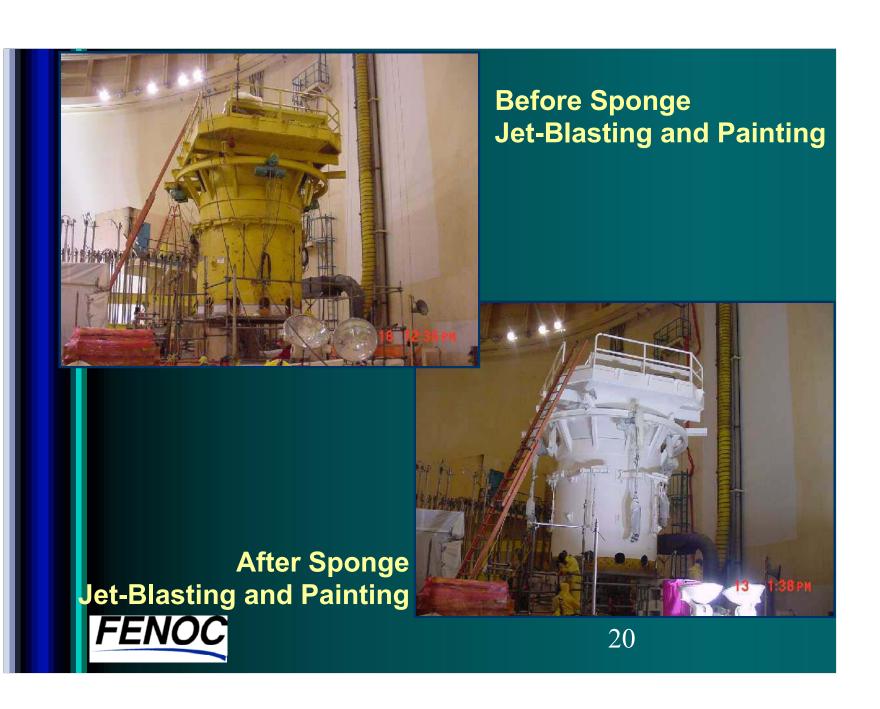
New Reactor Head Old Reactor Head











Pull Test





Containment and System Health



Randy Fast Jim Powers Plant Manager Director -Technical FENCE

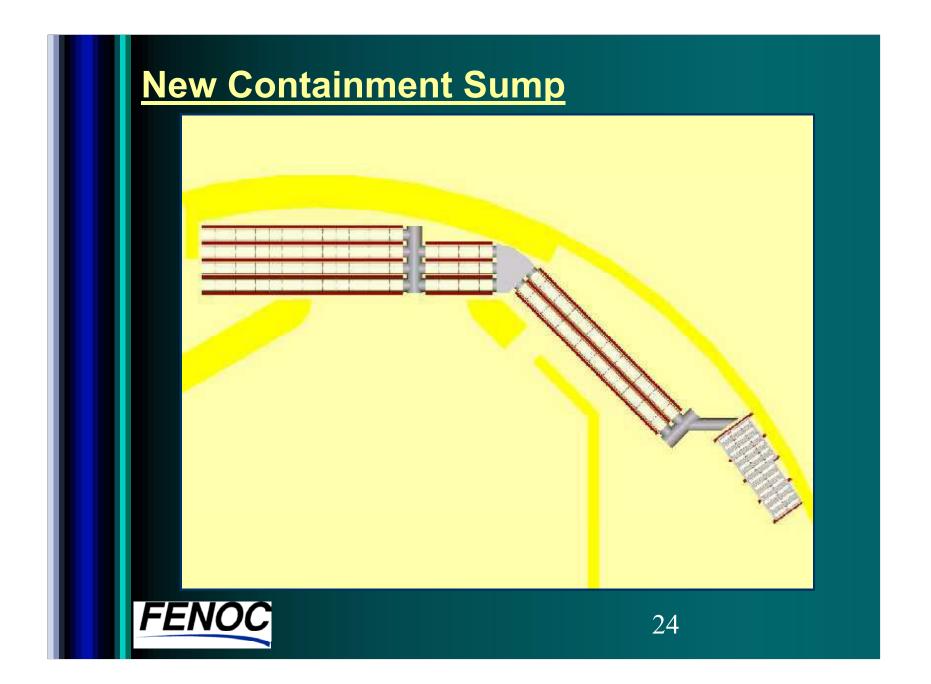
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Containment Health Plan

- Inspections in progress
 - No significant issues found in Containment
 - Most issues are minor maintenance
- Containment Sump
 - Gaining margins for safety and operational excellence
 - Will put Davis-Besse on the leading edge of the industry Pressurized Water Reactors
- Containment Coatings Walkdowns complete
- Insulation Removal complete





System Health Plan

- System Review Walkdowns complete
- 31 System Health Reviews are on-going
 - 500 Condition Reports initiated related to System Health Reviews as items requiring evaluation prior to restart
 - Past corrective actions reviewed
 - Low threshold for issues to be identified
 - 5 System Reviews completed by Responsible System Engineers
 - 4 reports presented to Engineering Assessment Board
 - 2 reviews approved; 3 scheduled to be presented

