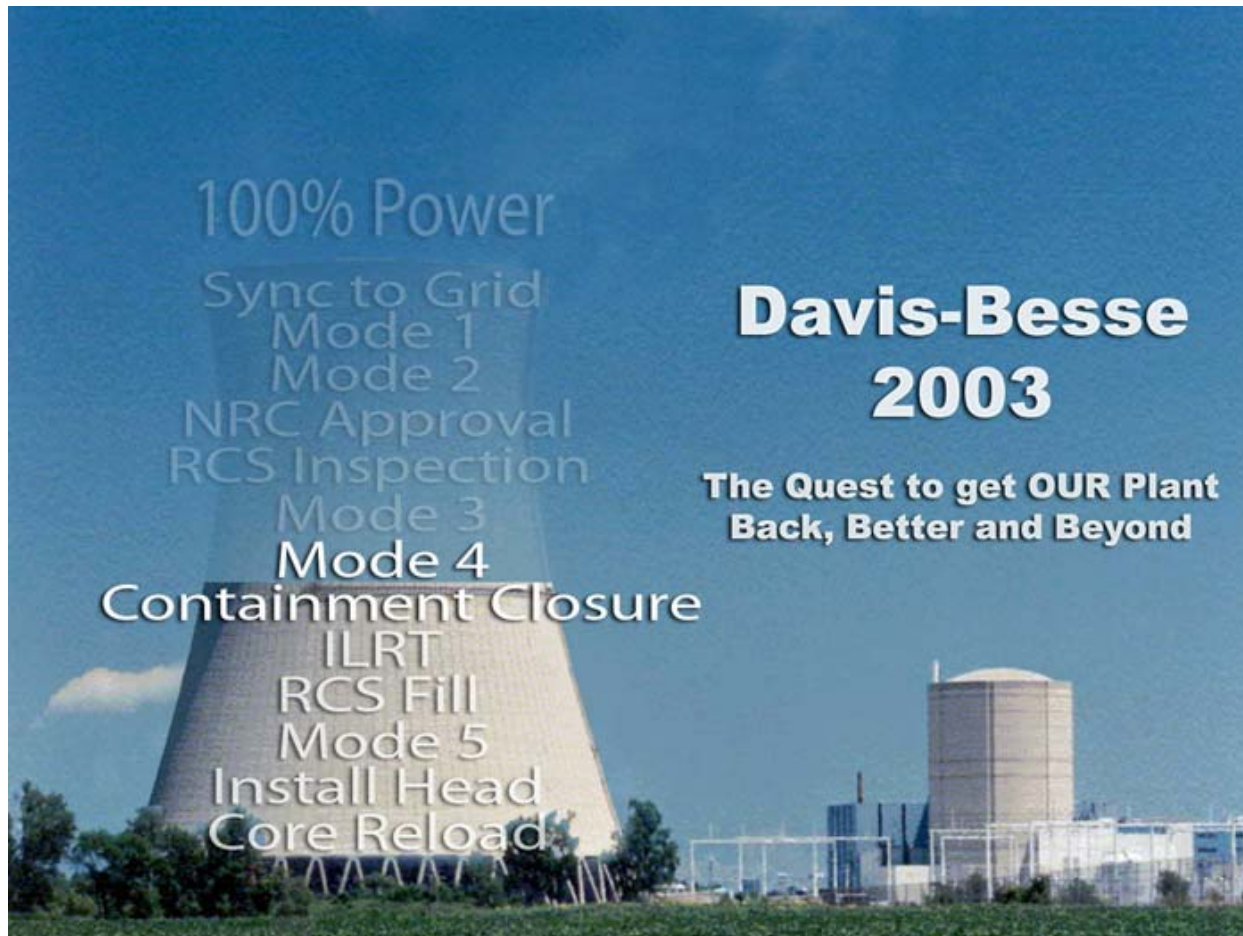


Davis-Besse Nuclear Power Station



IMC 0350 Meeting

Desired Outcomes

- Demonstrate that Davis-Besse is preparing for restart
 - Plant systems are being inspected and tested
 - Technical issues are coming to closure
 - Ongoing assessments of our people, plant and processes will ensure nuclear safety and event free operation

Lew Myers
Chief Operating Officer - FENOC

Meeting Agenda

- Plant Response to Loss of Transmission Grid.....Lew Myers
- Plant Status.....Mark Bezilla
- Closure of Technical Issues.....Jim Powers
- Operational Readiness Assessment Plan.....Rick Dame
- Quality Assurance Oversight.....Steve Loehlein
- Actions to Anchor Long-Term Improvement.....Lew Myers

Lew Myers
Chief Operating Officer - FENOC

Plant Response to Loss of Transmission Grid



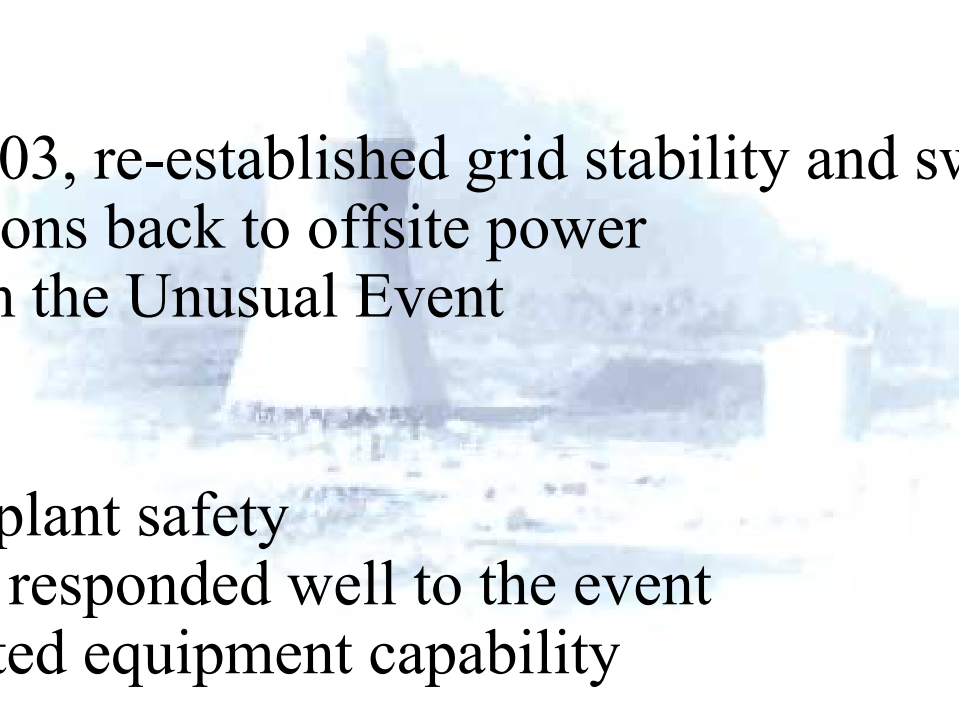
Lew Myers
Chief Operating Officer - FENOC

Plant Response to Loss of Transmission Grid

•Event

- On 8/14/03, a power outage impacted electrical grid system
 - Offsite power lost shortly after 4 p.m.
 - Declared an Unusual Event at 4:21 p.m.
 - Loss of Offsite Power
 - NRC notified
 - Plant work activities stopped and Emergency Plan initiated
 - Technical Support Center manned
- Both Emergency Diesel Generators started to provide site electricity
 - Operated EDG #2 for Safety-Related equipment
 - EDG #1 and Station Blackout Diesel was on standby
- Perry was operating at 100% power and tripped off line
- Beaver Valley was operating at 100% power, reduced power for a short time and later resumed full power

Plant Response to Loss of Transmission Grid

- 
- A faded, blue-tinted image of a power plant, likely the Davis-Besse Nuclear Power Station, serves as a background for the text.
- End of Event
 - On 8/15/2003, re-established grid stability and switched non-vital plant functions back to offsite power
 - Exited from the Unusual Event
 - Observations
 - Focus was plant safety
 - Employees responded well to the event
 - Demonstrated equipment capability

Plant Status



Mark Bezilla
Vice President/Plant Manager

Desired Outcome

- 
- A faded, blue-tinted background image of a nuclear power plant, showing a large cooling tower and other industrial structures.
- Demonstrate that Davis-Besse's preparation for the Normal Operating Pressure (NOP) Test is thorough, well-planned, and comprehensive

Plant Status

- Today's
Plant
Status



Plant Status

- Management preparation and focus during NOP Test

- Nuclear Safety

- People

- Plant

- Processes



Mode 4 Readiness Review Meeting



Plant Status



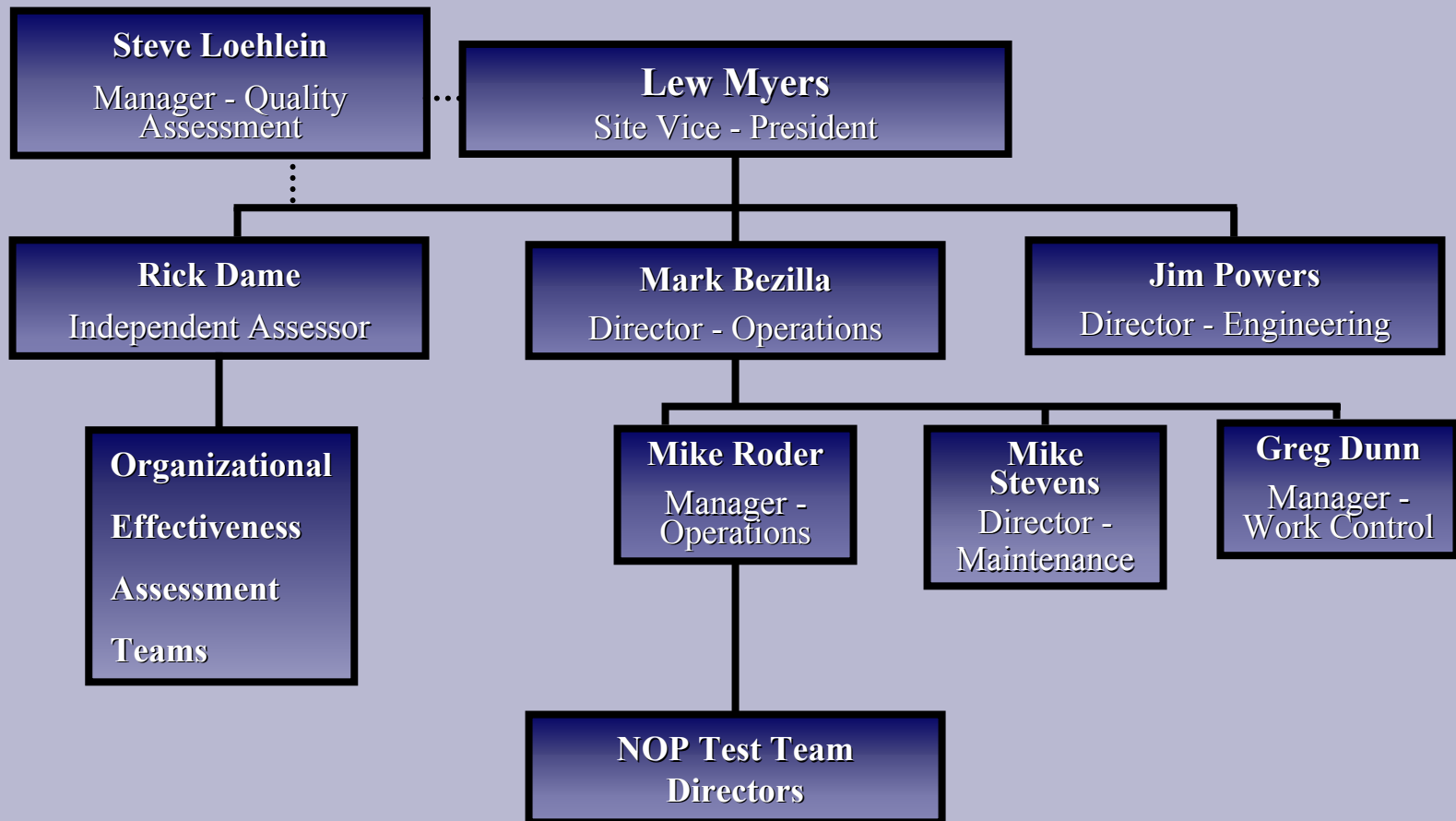
Control Room



- Expectations of site employees during NOP Test
 - Nuclear Safety
 - Preparation
 - Communication
 - Accountability

Plant Status

NOP Test Management Team



Plant Status

NOP Test Team

Mike Roder
Manager - Operations

NOP Test Directors - Days - Tony Stallard / Nights - Scott Wise
NOP Assistant Test Directors - Days - Randy Patrick / Nights - Craig Gillig

Boric Acid
Inspection Managers
Pete Seniuk / Ron Perry

Boric Acid Inspection
Assistant Managers
Tom Simonetti
John Grimm

Boric Acid Inspection
Teams
Various - Inspections have
been pre-assigned

RCS Sensitivity Leakage
Test Manager
Days - Jerry Lee
Nights - Gary Melssen

RCS Sensitivity Leakage
Test Support
Chemistry / RP

Maintenance
Contingency Support
Managers
Days - John Reddington
Nights - Bill Mugge

Plant Status

- Normal Operating Pressure Test
 - Heat Reactor Coolant System to $\sim 532^{\circ}$ using Reactor Coolant Pump
 - Pressurize Reactor Coolant System to ~ 2155 pounds per square inch
 - Conduct initial walkdown
 - Perform $> 1,000$ visual inspections of Reactor Coolant System and components
 - Conduct 2nd walkdown
 - Repeat same inspections
 - Perform post-maintenance and modification testing
 - Perform organizational effectiveness exercises

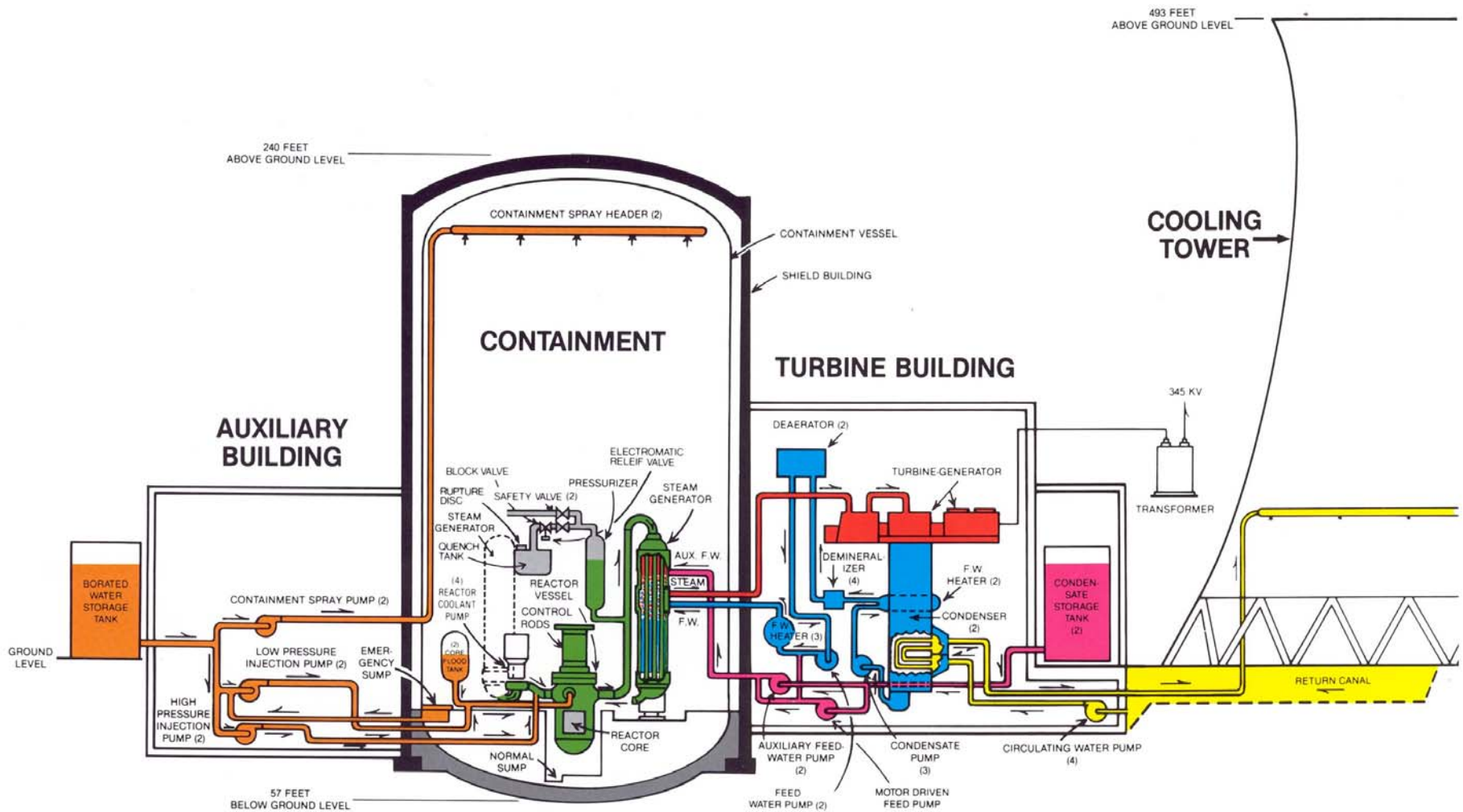
Plant Status

- Normal Operating Pressure Test being performed to demonstrate confidence in plant systems and equipment
 - Safety Equipment
 - Tested Safety Features Actuation System, Reactor Protection System, and Steam and Feedwater Line Rupture Control System
 - Primary Systems
 - Numerous inspections (Reactor Coolant System (RCS), Make Up & Purification, and Pressurizer)
 - Validate RCS Integrated Leakage Program and RCS Sensitivity Leakage Test (FLÜS Monitoring System)
 - Secondary Systems
 - Numerous inspections (Feed Water, Condensate, Circulating Water, Main Steam)

Plant Status

- Primary System Inspections include
 - Reactor Vessel flange
 - Reactor Head Control Rod Drive Mechanism (CRDM) nozzle penetrations and flanges
 - Reactor Vessel Incore Monitoring Instrumentation Nozzles
 - Steam Generator and Pressurizer manways and hand-holes
 - Reactor Coolant Pump covers and seal area
 - Pressurizer Heaters, Pressurizer Safety and Relief Valves
 - Body to bonnets on RCS Valves and packing glands
 - Bolted connections and flanges

Davis-Besse Nuclear Power Station



Plant Status

Accomplishments

- Replaced Reactor Pressure Vessel Head
- Improved Containment Emergency Sump
- Modified High Pressure Injection Pump Recirculation Line
- Painted the Containment Dome
- Installed FLÜS Online Leak Monitoring System
- Replaced Containment Air Coolers
- Enhanced Decay Heat Valve Enclosure
- Cleaned Reactor Vessel
- Confirmed Fuel Integrity
- Performed Boric Acid Extent of Condition Inspections, Evaluations, and Corrective Actions
- Cleaned Containment Building

Plant Status

Activities Completed

- August, 2003
 - Shipped original Reactor Pressure Vessel Head by rail to Envirocare Low-Level Radioactive Waste Facility in Utah for permanent storage



Plant Status

Actions Completed

- Items completed to date
 - ~ 100 Modifications
 - ~ 7,700 Work Orders
 - ~ 14,600 Condition Report Evaluations
 - ~ 23,800 Corrective Actions
 - ~ 15,000 Surveillance Tests
 - ~ 2,200 Preventive Maintenance Tasks
 - ~ 2,700 Procedure Changes

Plant Status

Future Activities

- Complete 7-Day Normal Operating Pressure Test of Reactor Coolant System
- Return to Mode 5 and assess results
- Remove / Modify / Re-install High Pressure Injection Pumps
- Address people, plant, and process issues identified
- Transition from Return to Service Plan practices to normal operating practices
- Request NRC permission to restart plant

Closure of Technical Issues



Jim Powers
Director - Engineering

Desired Outcome

- Demonstrate that technical issues are coming to closure

Closure of Technical Issues

- Return to Service Plan reviewed plant systems
 - Inspections complete
 - Issues identified and documented
 - Issues are clearly understood and bounded
- Three issues remain
 - High Pressure Injection Pumps
 - Electrical Distribution System
 - Containment Air Coolers

Closure of Technical Issues High Pressure Injection Pumps

- Status

- Qualification testing in progress
- Debris characterization finalized
- Pump Guinard hydrostatic bearing design adapted and improved for Davis-Besse High Pressure Injection pumps
- Hardfaced replacement parts ordered
- Pump modifications to be made following Normal Operating Pressure Test

Closure of Technical Issues Electrical Distribution System

- Status

- Analysis complete
- 1st Mode 4/3 modifications complete
- 2nd Mode 4/3 modifications identified
- Final resolution to occur prior to restart

Closure of Technical Issues

Containment Air Coolers

•Status

- During loss of offsite power event from electrical grid disturbance on 8/14/03, Containment Air Coolers experienced a water pressure surge
- Misalignment and expansion of piping bellows assemblies identified
- Significant Condition Adverse to Quality created
- Event Investigation Team/Problem-solving and Decision-making Process initiated
- Short-term assessment/actions completed
- Long-term actions being finalized

Operational Readiness Assessment Plan



Rick Dame
Reliability Unit - Supervisor

Operational Readiness Assessment Plan

- Desired Outcome
 - Demonstrate the readiness of people and processes to safely and reliably operate the plant

Operational Readiness Assessment Plan

- Methodology

- Conduct observations and assessments of organizational performance during 7-Day Reactor Coolant System (RCS) Normal Operating Pressure (NOP) Test
- Perform exercises to ensure that standards and processes are appropriate to support safe and reliable plant operation

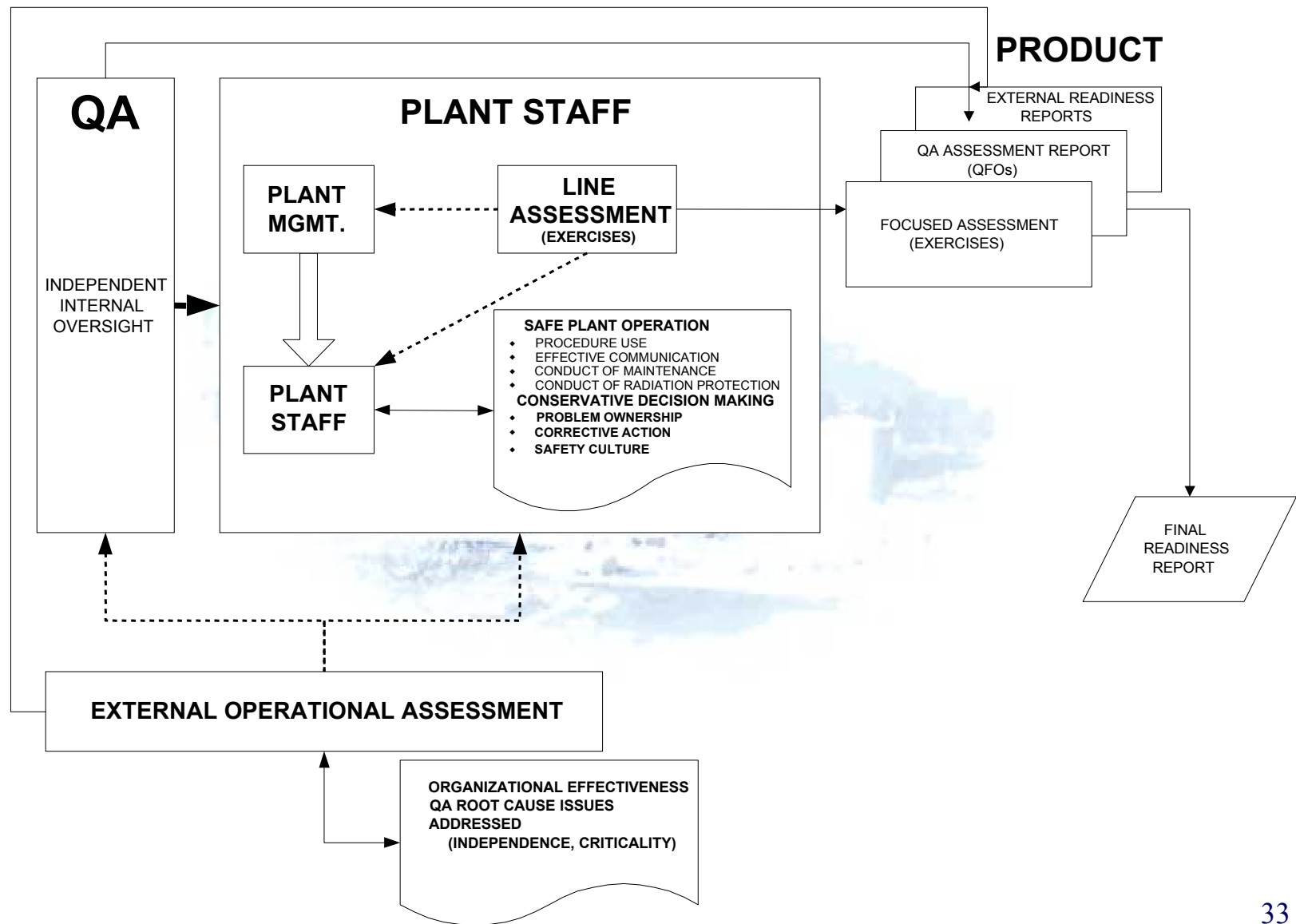
Operational Readiness Assessment Plan

- Assessment Criteria
 - Davis-Besse Operations Section “Conduct for Excellence” Handbook
 - Davis-Besse “Conduct of Operations” procedure
 - World Association of Nuclear Operators (WANO) Performance Objectives and Criteria

Operational Readiness Assessment Plan

- WANO Performance Criteria
 - Provides a consistent standard of excellence to determine station strengths and weaknesses
 - Selected WANO Performance Objectives for this assessment are “Organizational Effectiveness” and “Operations”

INTEGRATED ASSESSMENT DURING NOP TESTING



Operational Readiness Assessment Plan

- Data Gathering Opportunities
 - Operational evolutions associated with the 7-Day RCS NOP Test
 - Organizational response to actual emergent issues
 - Organizational response to emergent issue exercises

Operational Readiness Assessment Plan

- “Emergent Issue” Exercises
- Exercises will be designed to have minimal impact on Control Room crews
- Examples of exercises:
 - Operability Determination
 - Priority 200 Work Order
 - Procedure change
 - Immediate Investigation
 - Off-hour equipment challenge

Operational Readiness Assessment Plan

- 7-Day NOP Test Assessment Documentation
 - Internal Assessment Team - FENOC Focused Self-Assessment Report
 - External Assessment Team - External Readiness Reports
 - Quality Assurance (QA) Assessment Team - QA Assessment Report
- Results will be included in the final Integrated Restart Report

Quality Assurance Oversight



Steve Loehlein

Manager – Nuclear Quality Assessment

Corrective Action Program

- Corrective Action Review

- 5402 completed corrective actions were reviewed
- 4980 (92%) acceptable
- 422 (8%) inconclusive/unacceptable
 - 221 answered as of 9/7/03
 - 185 documentation errors/inadequacies (84% of the 221)
 - 36 missed items or procedure errors (16% of the 221)
- Status
 - Continuing resolution indicates that relatively few issues were missed, and these are of low significance

Corrective Action Program

- Focus for Improvements
 - Implement effective trending
 - Increase management involvement in improving program implementation
 - Increase management involvement in Management Review Board
 - Increase management involvement in ensuring issues are appropriately evaluated

Oversight Activities for Mode 4

- Assessment of Restart Activities
 - Ongoing oversight of qualification testing at testing laboratory
 - Some of the Focus areas
 - Operations Leadership
 - Safety Culture
 - Configuration Control
 - Procedure Compliance
 - Test Control

Oversight Activities for Mode 4

- Assessment during NOP Testing Activities
 - Control Room Command and Control
 - Component/System Testing Activities
 - RCS walkdown teams
 - Organizational Response to Emergent Issues
 - Identification and prioritization of issues
 - Quality of problem resolutions

Actions to Anchor Long-Term Improvement



Lew Myers
Chief Operating Officer - FENOC

Actions to Anchor Long-Term Improvement

- New officers and management
 - At corporate level
 - At plant level
 - New corporate-level departments for fleet-wide improvements
- Improvements in plant systems to add margin
- New vision, strategic objectives, and metrics
 - Safe Plant Operation
 - Improved Outage Performance
 - Excellent Material Condition
 - Fleet Efficiency and Effectiveness

Actions to Anchor Long-Term Improvement

- Improvements for Personnel Performance
 - Training on lessons learned
 - New training for managers and supervisors on nuclear safety focus and professionalism
 - Department level expectations
 - Improvements in communications and teamwork
 - Alignment of management and personnel
 - Improvements in personnel evaluations and development
 - Leadership development
 - Operations Leadership

Actions to Anchor Long-Term Improvement

- Improvements in Programs
 - Program reviews and benchmarking
 - Corrective Action Program
 - Employee Concerns Program
 - Operating Experience Program
 - Radiation Protection Program
 - Boric Acid Corrosion Control and Lead Detection Programs
 - Operability Determinations
 - Problem Solving and Decision-Making

Actions to Anchor Long-Term Improvement

- Improvements in Monitoring and Oversight
 - Management Observations
 - New performance indicators
 - New Safety Culture Assessments
 - New Engineering Assessment Board and improved Corrective Action Review Board
 - Augmented independence and capability of Quality Assurance
 - Improvements in Company Nuclear Review Board and Board oversight

Closing Comments



Lew Myers
Chief Operating Officer - FENOC