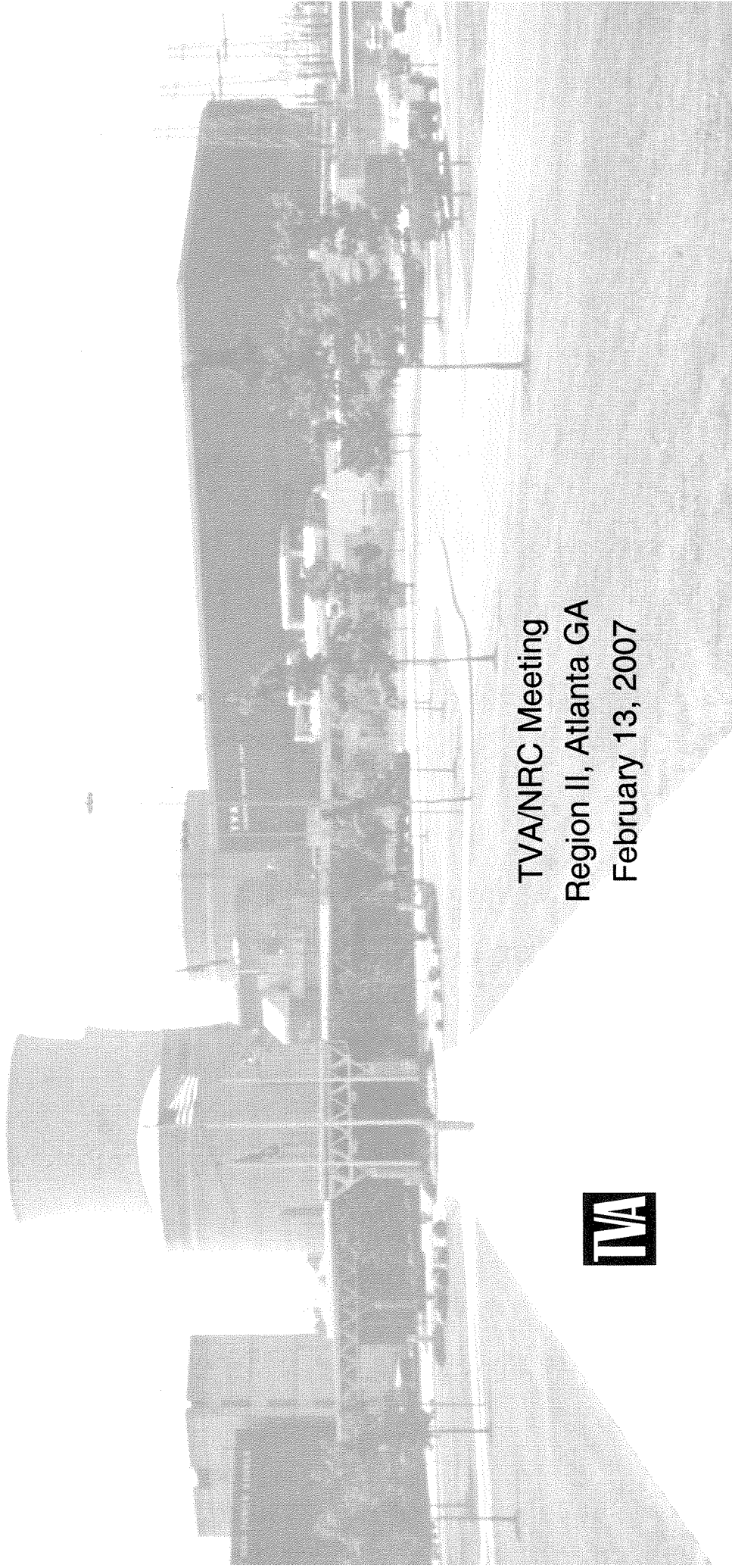




Sequoyah Nuclear Plant

Plant Performance



TVA/NRC Meeting
Region II, Atlanta GA
February 13, 2007





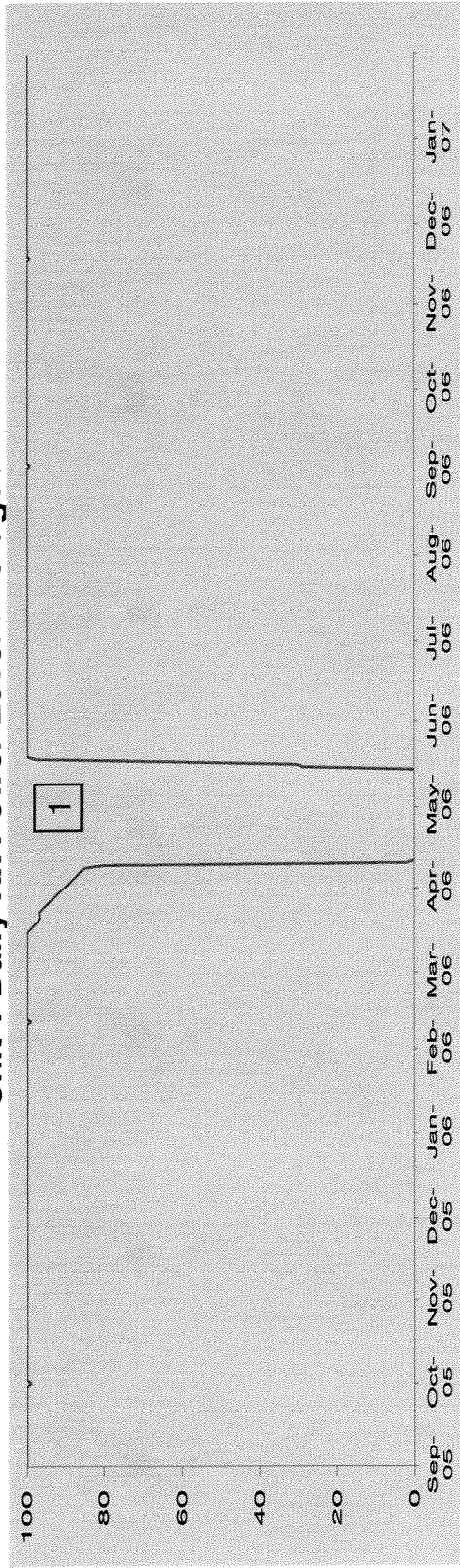
Agenda

• Introduction	Randy Douet
• Plant Performance	Dave Kulisek
• Human Performance	Dave Kulisek
• SQN Learning Organization Initiative	Dave Kulisek
• Operations Performance	Mark Palmer
• Outage Performance	Brian Dungan
• Equipment Reliability	Kevin Jones
• Projects	Kevin Jones
• 2006 INPO Evaluation Results	Randy Douet
• Closing Remarks	Randy Douet



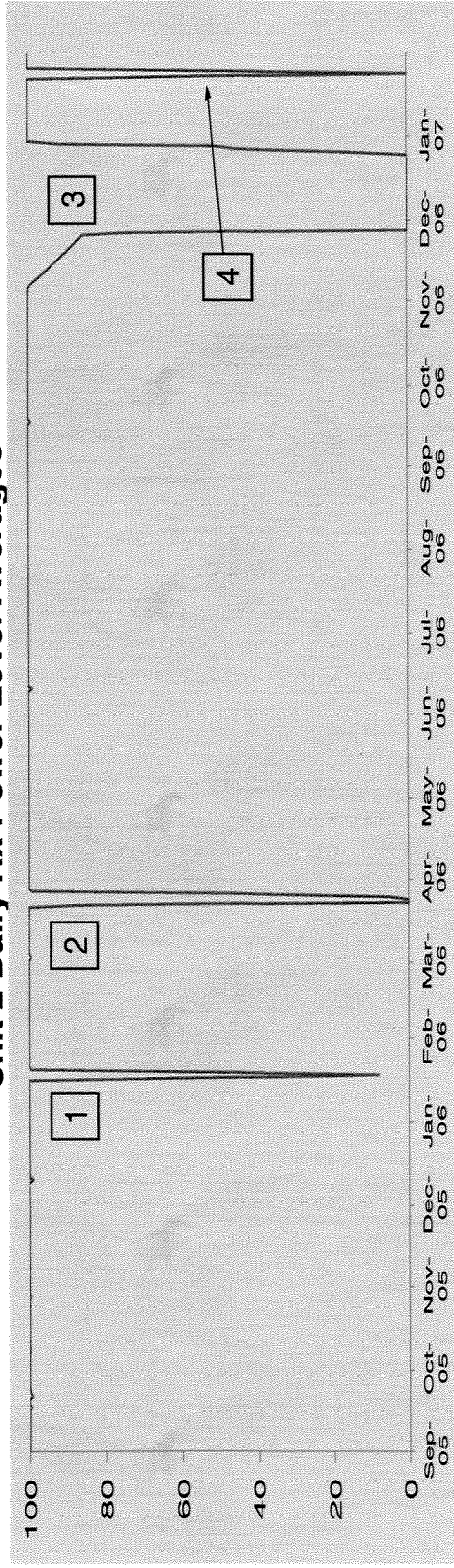
Plant Performance

Unit 1 Daily Rx Power Level Averages



1) 04/10/06 - U1C14 Refueling Outage

Unit 2 Daily Rx Power Level Averages

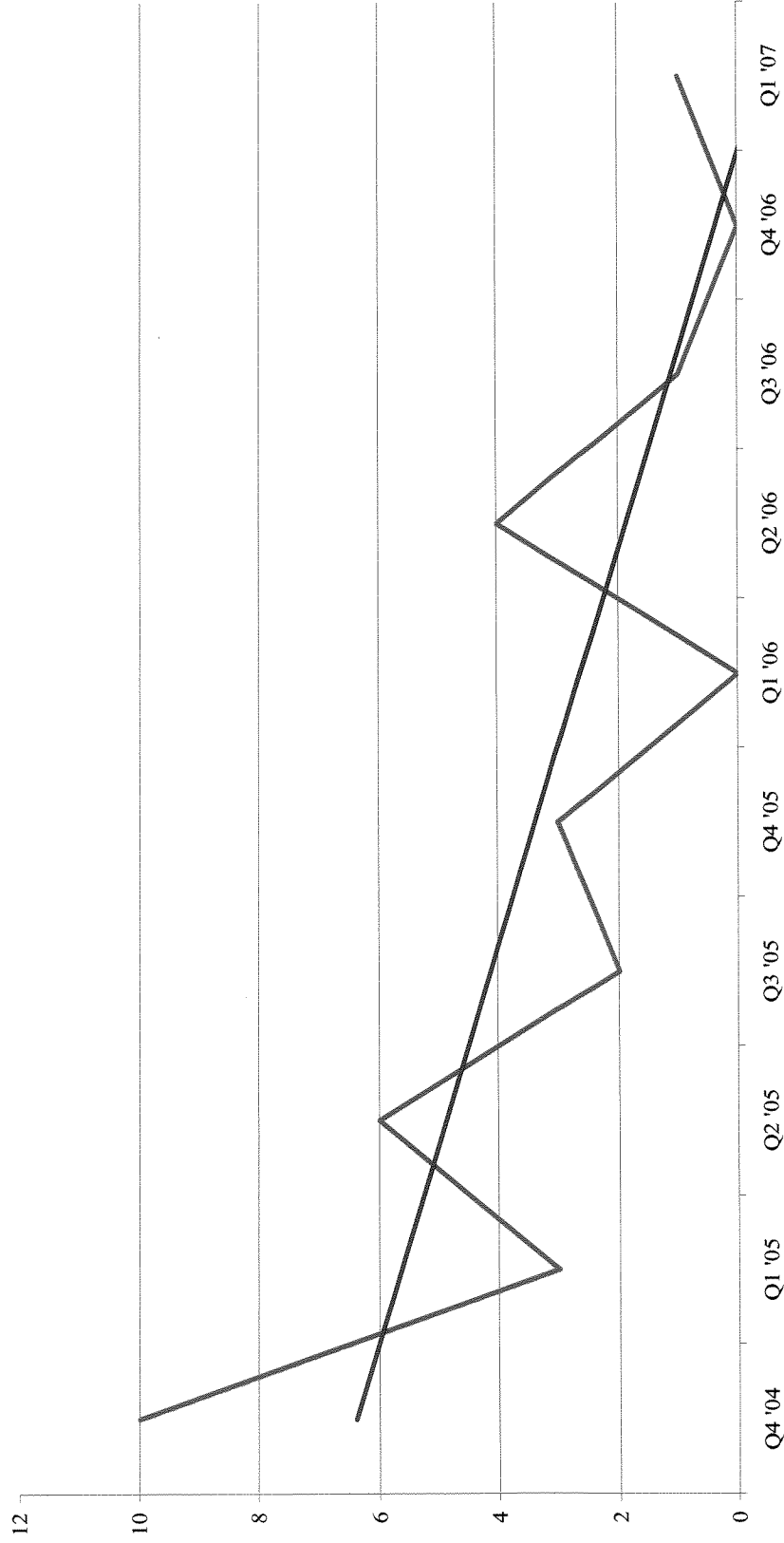


- 1) 01/17/06 - Shutdown turbine to replace 2B main bank transformer
- 2) 03/22/06 - Reactor trip, electrical fault on generator
- 3) 11/27/06 - U2C14 Refueling Outage
- 4) 01/23/07 - Reactor trip, feedwater regulator valve



Human Performance

Station Clock Resets Through January 2007





SQN Learning Organization Initiative

- Corrective Action Program Trending
- Self-Assessment
- Operating Experience / Benchmarking
- Training
- Performance Indicators



Operations

- Results Since Last Meeting:
 - Improved leadership
 - Improved field performance
 - Improved outage performance



Operations

- Areas Where Additional Focus is Being Given
 - Using training to improve performance
 - Increased rigor in programs and processes (including procedure use and adherence)
 - Staffing Pipeline Management
 - Operations leadership in daily work control process
 - Licensed Operator Biennial Exams



Outage Performance

- U1 and U2 Cycle 14 Outage Summaries
 - Improving personnel safety performance
 - Cleared control room deficiencies, operator work arounds, temp leak repairs, 91-18 issues, temp alterations
 - Reduced elective and corrective maintenance backlogs
 - Managed PER backlog
 - No outage-related Licensee Event Reports
 - Improving Rad Worker performance



Outage Performance

Safety and Reliability Activities		
Units 1 and 2	Unit 1	Unit 2
<ul style="list-style-type: none"> • ECCS Hi-Point Vents <ul style="list-style-type: none"> – Pipe and test header • LP Rotor refurbishment and inspections • Pri / Sec Check valve inspections and repairs • Main Bank Transformer inspections • Isophase bus duct repairs 	<ul style="list-style-type: none"> • 10-Year ISI • MFP/MFPT <ul style="list-style-type: none"> – 1A Inspection – Vibration system • 1A CCW motor refurbishment • 1B Condensate Demineralizer motor/pump refurbishment • RVLIS RTD replacement • 1A RHR motor / pump replacement 	<ul style="list-style-type: none"> • Containment Sump Modification • PZR Weld Overlay / sleeve inspections • Volumetric Head inspections • Exciter change-out • CILRT • Generator H2 purity issue • 2A RHR motor / pump replacement • 2B Condensate Demineralizer motor / pump refurbishment • 2A CCP motor refurbishment • Main Condenser Dogbone seal repairs • Steam Generator <ul style="list-style-type: none"> – Sludge lancing – Eddy-current testing – Tube pull analysis



Outage Performance

- Unit 1 and 2 Cycle 14 Outage Challenges
 - Fuel Movement
 - Supplemental Personnel Oversight
 - Project Dose Challenges

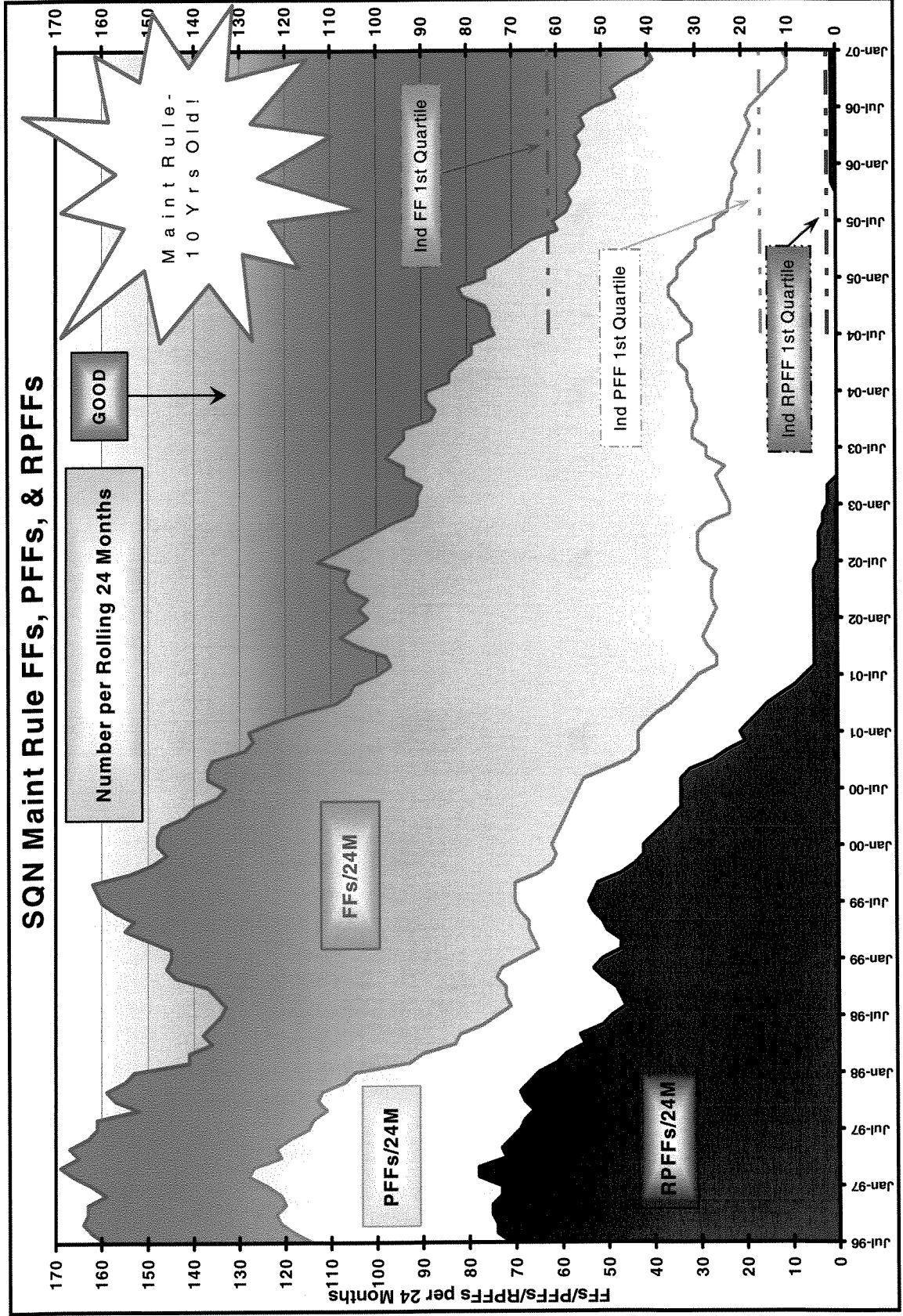


Equipment Reliability

- High Safety-System Reliability
- Reduce Equipment-Related Challenges to Plant Operations
- Maintenance Rule
- Equipment Trending



Equipment Reliability





Equipment Reliability

- Reliability Improvements
 - Diesel Generator Air-Start System
 - 6.9-kV Emergency Raw Cooling Water Cable Replacement
 - Emergency Core Cooling System Gas Accumulation
 - Chillers
 - Transformer Replacements



Equipment Reliability

- Challenges
 - Essential Raw Cooling Water Piping Replacement
 - Appendix R Program
 - Ultimate Heat Sink TS Change and Modification



Projects

- Independent Spent Fuel Storage Installation (ISFSI)
 - Successful Spring 2006 campaign (5 canisters)
 - Six canisters planned this spring
- Reactor Vessel Head Inspection
 - Full volumetric inspection of penetrations
 - Unit 2 completed with no flaws identified
 - Unit 1 scheduled for Cycle 15



Projects

- Containment Sump
 - Analysis addressed debris generation, transport, and accumulation
 - Unit 2 installation successfully completed
 - Unit 1 implementation scheduled for Cycle 15
- Alloy 600
 - Pressurizer nozzles (6)
 - No flaws detected in as-found/as-left UT for Unit 2
 - Unit 2 weld overlay successfully completed
 - Unit 1 implementation scheduled for Cycle 15



2006 INPO Evaluation Results

- **Setting and Reinforcing High Standards**
 - SQN performance improved during the past two years.
 - Lack of management understanding of the extent to which rest of the industry was also improving.
 - We did not use benchmarking to its fullest.
 - We are implementing actions to ensure increased management engagement in the benchmarking process.

- **Operator Performance**
 - Improvement opportunities exist in the area of fundamental skill sets within Operations.
 - Actions have been developed to improve operator diagnostic skills, and observation feedback to efficiently improve operator performance.
 - Actions are also being put in place to re-emphasize Shift Manager ownership of operating crew performance.

- **INPO Strength: SQN Safety Culture**



Closing Remarks

