

Agenda



- Introduction
- Vogtle Project Overview
 - Plant Performance
 - Site Vice President Reorganization
- Major Focus Areas
- Major Projects
 - Pressurizer Nozzle Structural Weld Overlays
 - Measurement Uncertainty Recapture Power Uprate
 - ECCS Sumps and Downstream Effects Modifications
 - Steam Generator Chemical Cleaning
 - Pipeline Replenishment
- Open Discussion

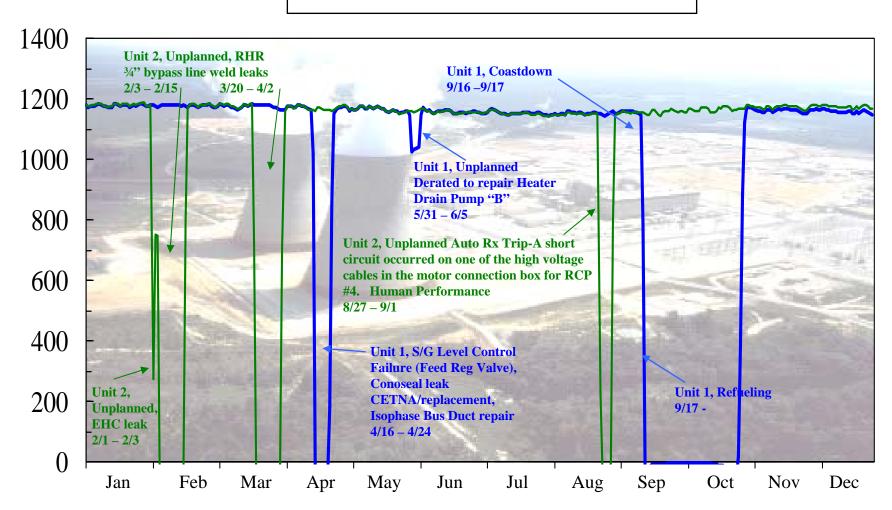


Plant Performance

SOUTHERN COMPANY

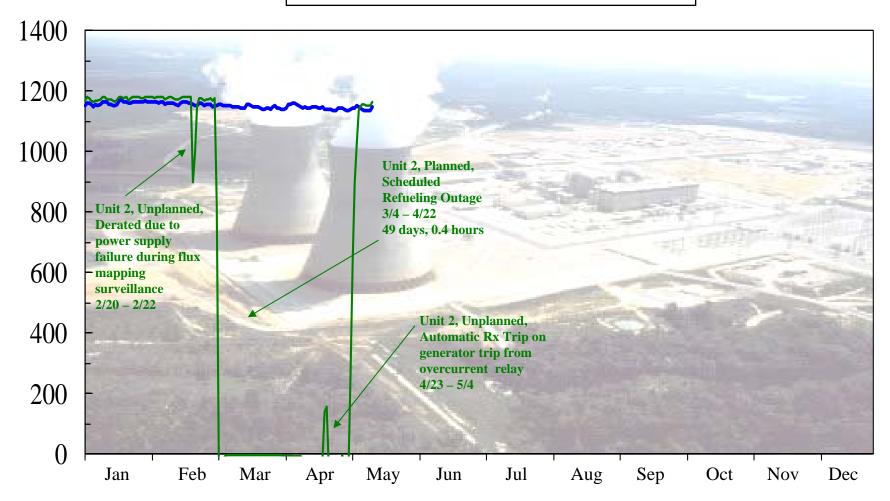
2006 Plant Vogtle Average Daily Power Levels

— Unit 1 — Unit 2

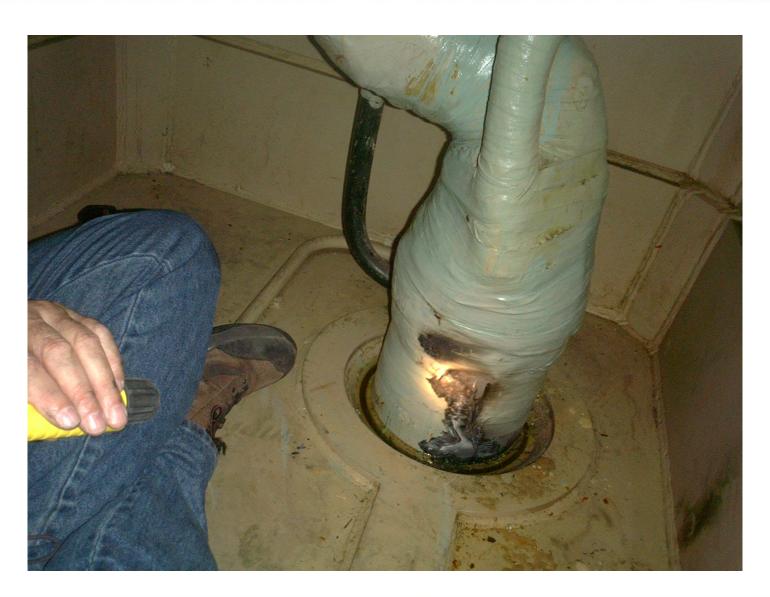


2007 Plant Vogtle Average Daily Power Levels

— Unit 1 — Unit 2



- oril 23, 2007
- On April 23, 2007, Unit 2 experienced an automatic reactor trip on P-9 due to a main generator trip (fault protection relay).
- The cause was determined to be a fault which resulted from a very small water leak from a cooling line to the "A" phase generator bushing.
- Over time, water from the leak seeped into the tape around the bushing eventually resulting in a fault.
- Root cause analysis is underway.





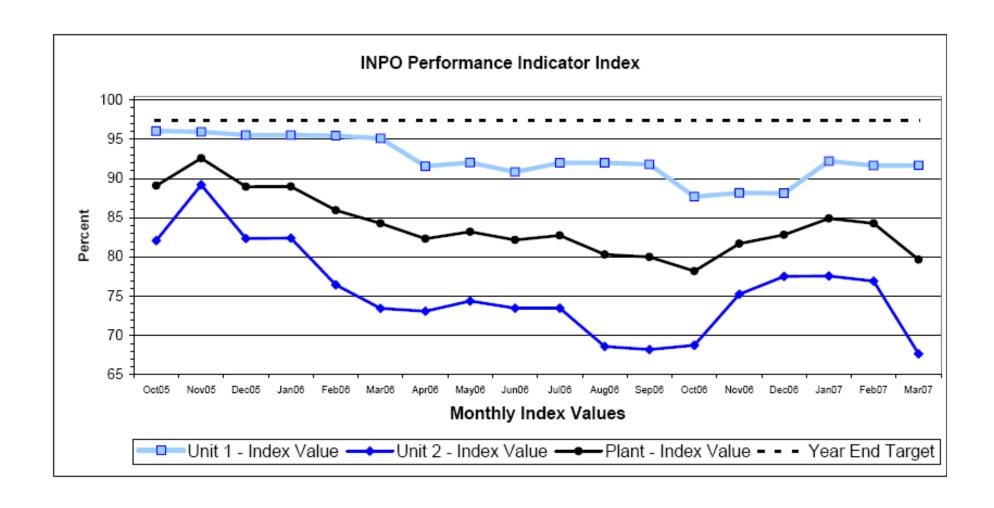






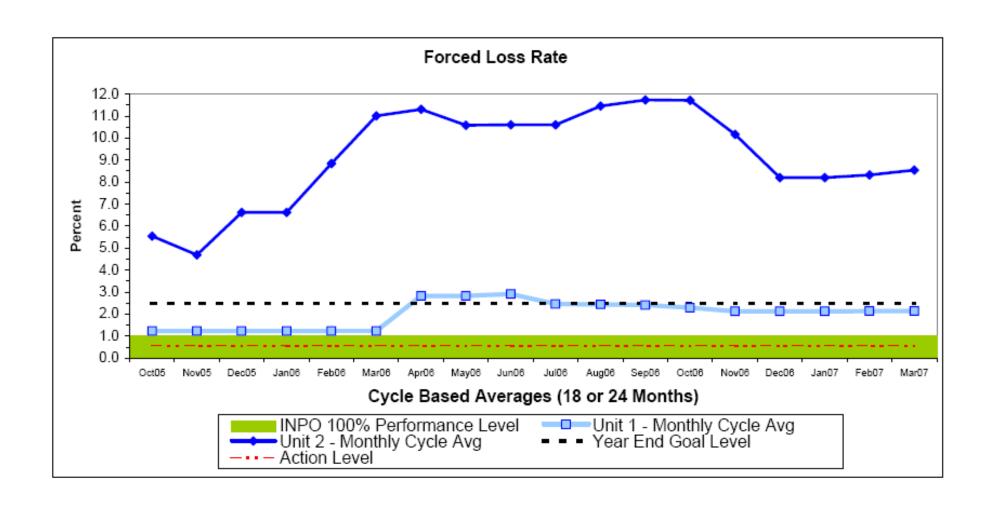
INPO Index - Vogtle





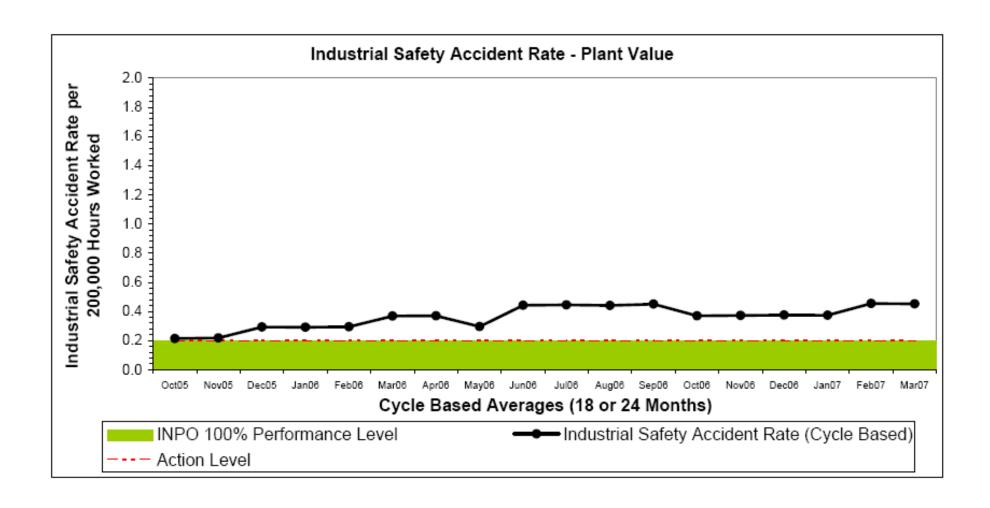
Forced Loss Rate - Vogtle

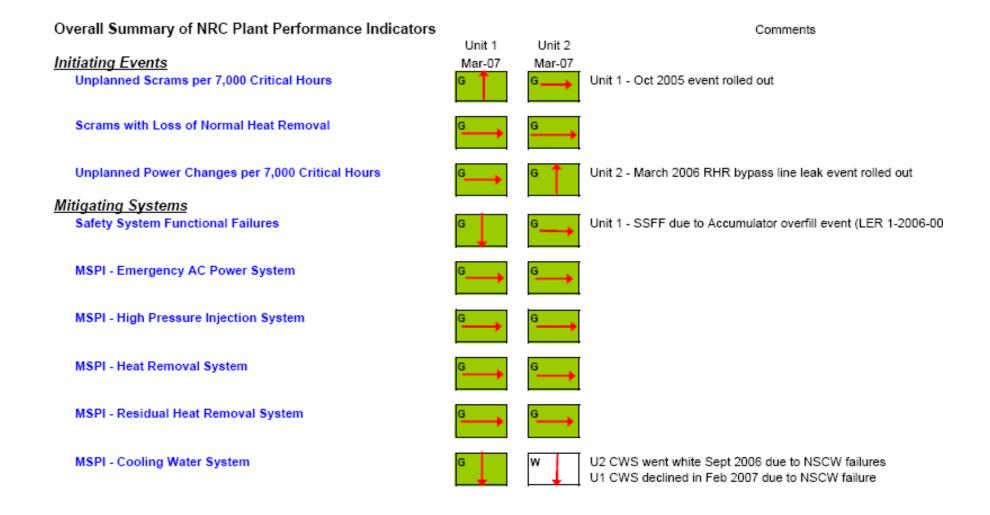




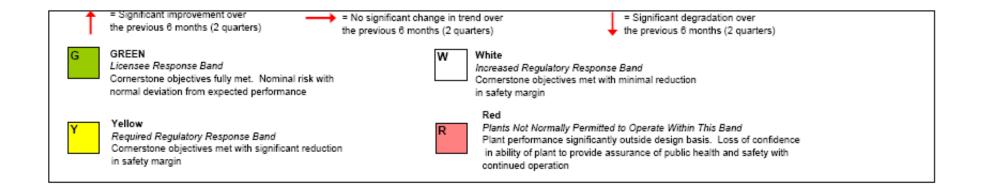
Industrial Safety - Vogtle

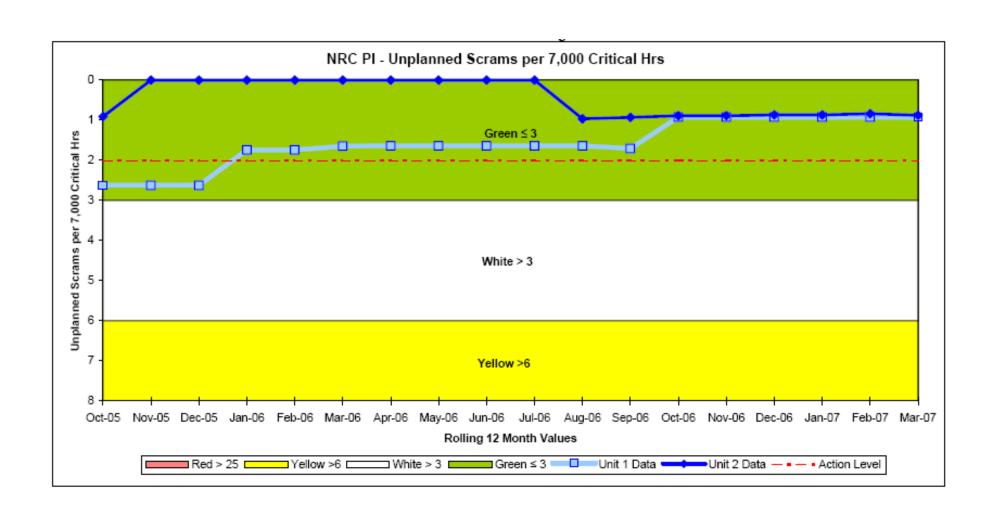


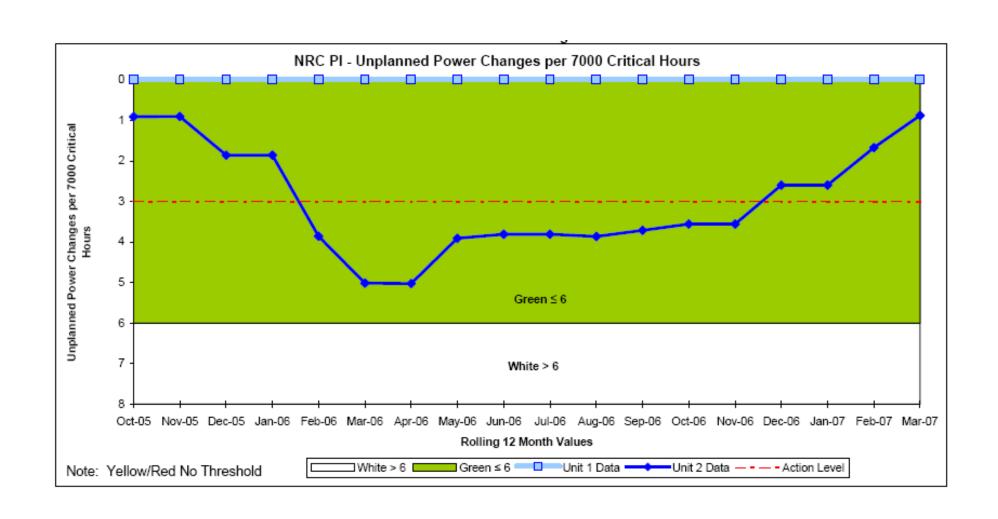


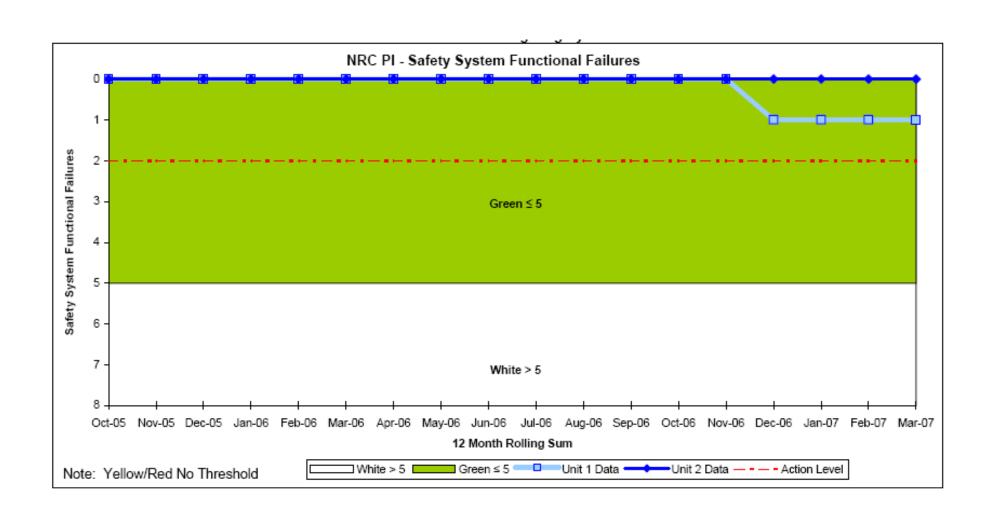


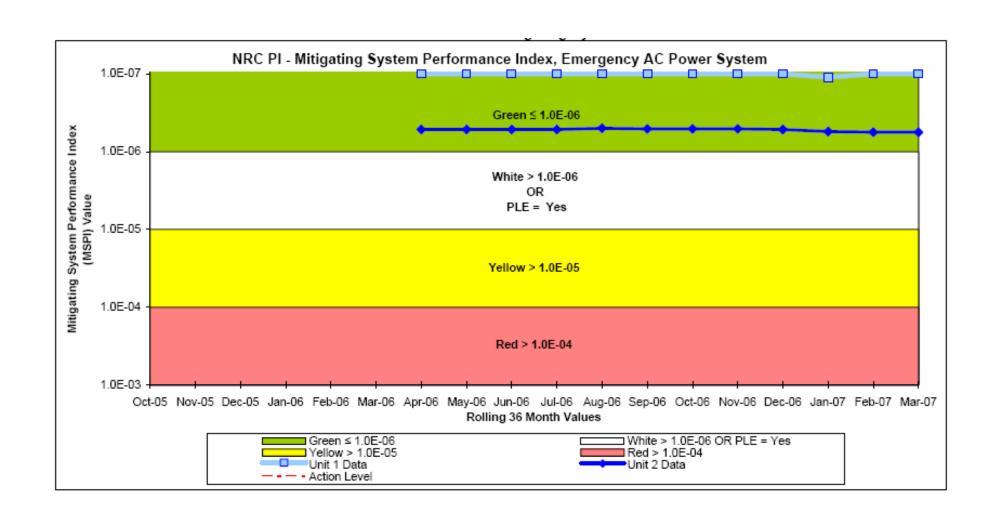
Barriers		
Reactor Coolant System Specific Activity	G	G
Reactor Coolant System Identified Leak Rate	G	G
Emergency Preparedness		
Emergency Response Organization Drill/Exercise Performance	G	→
Emergency Response Organization Participation	G	+
Alert and Notification System Reliability	G	→
Occupational and Public Radiation Safety		
Occupational Exposure Control Effectiveness	G	→
RETS/ODCM Radiological Effluent Occurrences	G	→
Physical Protection		
PA Security Equipment Performance Index	G	→
Personnel Screening Program Performance	G	→
FFD/Personnel Reliability Program	G	→
RETS/ODCM Radiological Effluent Occurrences Physical Protection PA Security Equipment Performance Index Personnel Screening Program Performance	G G	→ → →

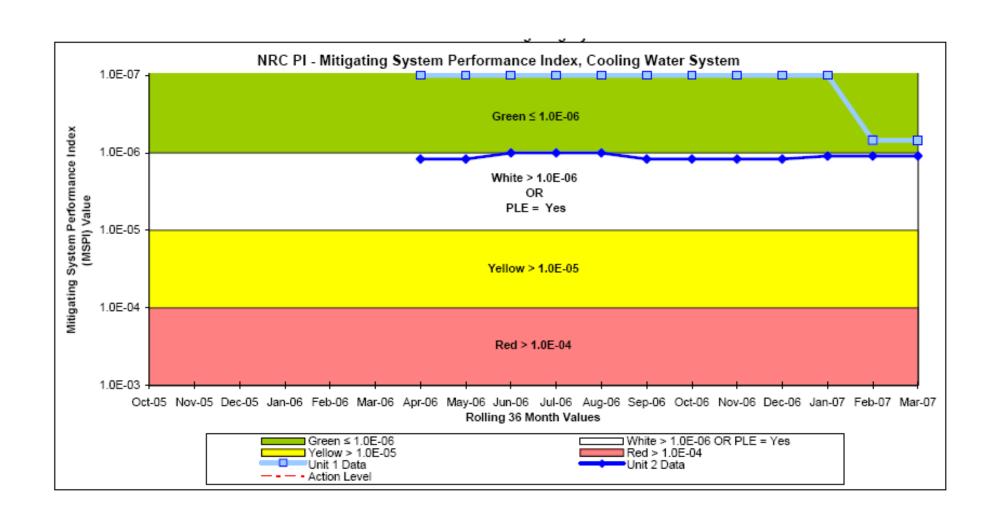


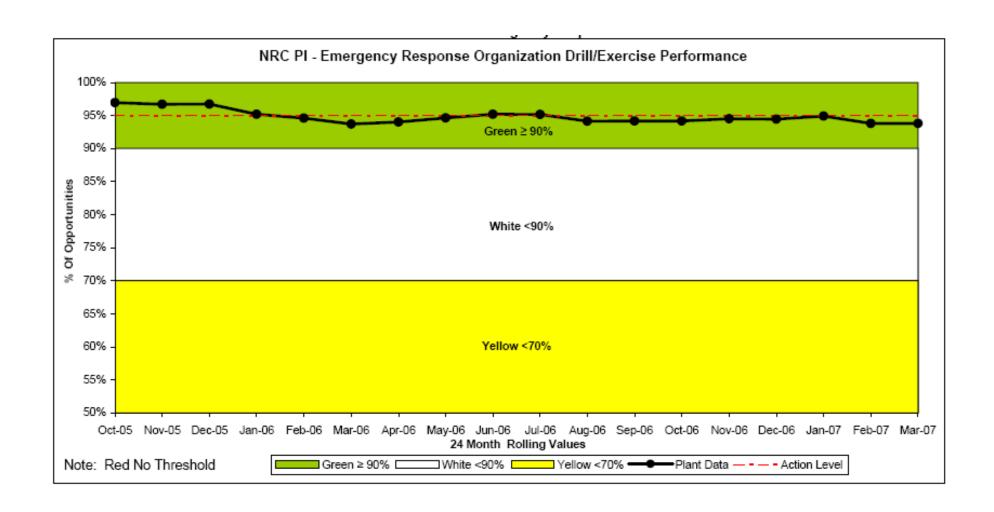














Site Vice President Reorganization

Site Vice President Reorganization – January 2007 J. B. BEASLEY, JR. Chairman, **President & Chief Executive Officer** S. A. MITCHELL -Asst. Corp. Sec./Exec. Asst. to Pres./Asst. Treas. M. M. CASTON R. A. BELL* K. S. KING D. H. JONES J. T. GASSER J. A. MILLER General Counsel, **Executive Vice President** Human Res. Sr. VP **CFO & Vice President** Engineering Senior Vice President **VP External Affairs &** & Chief Nuclear Officer **Nuclear Development Corporate Services Vice President Southern Company Corporate Secretary** J. G. WOLFE A. F. THORNHILL -W. D. DRINKARD Vogtle 3&4 B. J. GEORGE L. M. STINSON Comptroller & Treasurer Managing Atty. & Quality Assurance Nuclear Licensing Compliance Manager Manager Manager Bellefonte Fleet Operations Support **Vice President** C. H. PHILLIPS -C. D. COLLINS -B. E. HUNT Supply Chain General Manager Nuclear Fuels Public Affairs Manager Manager D. P. BURFORD P. R. BIZJAK J. M. GODFREY Nuclear Fleet Security Safety & Health Manager **Environmental Affairs** BURMEISTER Manager and Emergency Preparedness Manager Plant Support Manager VACANT * P. A. HURST -H. R. Director W. B. THIGPEN W. H. LEE A. HARRIS Corporate Concerns Supervisor Security Supervisor/Access **Emergency Planning** Engineering Services Manager Supervisor Authorization G. K. McELROY Engineering Admin. Services Manager J. R. JOHNSON T. E. TYNAN D. R. MADISON J. B. PAPPAS Vice President - Farley **Vice President - Hatch Vice President - Vogtle** Configuration Management Manager W. L. BARGERON — T. L. YOUNGBLOOD S. M. DOUGLAS M. J. AJLUNI Site Support Manager Plant Manager Site Support Manager Plant Manager C. R. DEDRICKSON — J. D. WILLIAMS Site Support Manager Plant Manager 0407 *SCS Employee



Major Focus Areas

Major Focus Areas



- Equipment Reliability
 - Implementing Effective Design Modifications
- Corrective Action Program
 - Trending
- Work Force Engagement
 - Engage workforce on major problems and solutions
- Plant Status Control
 - Misposition Performance Indicator





- Pressurizer Structural Weld Overlays
 - NRC Approved Alternative ISI-GEN-ALT-06-03 March 8, 2007 and Revised April 3, 2007
 - Six Unit 2 Alloy 82/182 pressurizer nozzles completed during Spring 2007 (2R12) Refueling Outage
 - Unit 1 scheduled for Spring 2008
 - Contingent on enhanced RCS leakage monitoring, action levels, and actions (March 6, 2007 letter, J.T. Gasser to USNRC)
 - Commitment and contingency plans to shut down in 2007 if further industry developments do not support reasonable assurance of waiting until Spring 2008
 - Confirmatory Action Letter dated March 12, 2007



- Measurement Uncertainty Recapture Power Uprate
 - Approximately 1.7% increase in Rated Thermal Power
 - Based on installation of Caldon Feedwater Flow Measurement Instrumentation
 - In addition, other major modifications include new high pressure turbine and higher capacity heater drain pumps
 - Scheduled for implementation Spring 2008 for Unit 1 and Fall 2008 for Unit 2
 - NRC Submittal Summer 2007



- ECCS Sumps and Downstream Effects Modifications
 - New Unit 1 sumps installed Fall 2006
 - Extension on downstream effects modifications for Unit 1 granted by NRC until Spring 2008
 - New Unit 2 sumps AND downstream effects modifications completed during Spring 2007 outage
 - RHR sump screens increase in surface area by ~1400% and containment spray screens by ~1075%
 - Downstream effects modifications involve installation of header orifice to allow throttle valves to be opened up

SOUTHERN

- Steam Generator Chemical Cleaning
 - Unit 1 completed Fall 2006
 - Unit 2 completed Spring 2007
 - Materials removed during chemical cleaning (in pounds from all

steam generators):	Unit 1	Unit 2	
Iron Oxide	5990	4303	
Copper (metal)	91	66	
 Nickel Oxide 	205	128	
Other Oxides	196	119	
Sludge	337	341	
 Total Material Removed 	6819	4957	



- Pipeline Replenishment
 - Strategies for hiring entry level workers and engineers
 - License classes
 - 14 candidates to finish this summer
 - 15 candidates to start in Fall 2007
 - 16 candidates to start in Fall 2008
 - Average class size of 16
 - All other initial programs up and running (Chemistry, HP, Maintenance, etc.)

Open Discussion



