SC Governor’s Nuclear Advisory Council

V.C. SUMMER NUCLEAR STATION

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The Nuclear Renaissance

Mandate: Preserve a history of safety and reliability at VCS Unit 1 to support construction of Unit’s 2 & 3.

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Construction City
Safety
- Staying focused on “The Main Thing”

Investment
- Upgrading and Maintaining Unit 1

Learning Organization
- Teaching the Safety Culture
Safety – UNIT 1

• “Excellent” rank by INPO
• Lowest level of NRC activity
• Record VCS run in 2008-2009
• 6 Million Safe Work Hours

• Completed Refueling outage with one recordable injury – knee strain
  • 11,000 task with >900 contractors
• Top 5 US PWR in dose control
  • Second consecutive PWR record in outage CO-58 peak (0.05 uCi/cc)
Upgrades in 2009

- New Digital Rod Position Indication (DRPI) system
- Digital Feedwater Control Valve Positioners
- Reactor Up-Flow Modification
- Main Transformer Replacement
Reactor Vessel Upflow Conversion:

- RV Lower Internals Modified So Down flow Path Becomes Up flow
- All work done underwater with remote tools
- Reduces potential for fuel pin leakage
Main Transformer Replacement

- Built by Mitsubishi in Japan
- Existing Main Becomes Spare
- Transformer moved by ship, rail, trailer, and brute force
- 1,170,630 lbs
- 19,550 Gallons of Oil
Main Transformer Replacement
Main Transformer Replacement

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Main Transformer Replacement

Main Transformer

Spare Transformer

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Main Transformer Replacement

New Main Transformer
Learning Organization

• Safety Culture training
  • Decision making
  • Risk management
• Cross-training – Unit 1,2,3
• Learning Center Expansion
• Coop Programs
  • MTC Operator Boot camp
Questions?