



SC Governor's Nuclear Advisory Council

V.C. SUMMER NUCLEAR STATION

Dan Gatlin
Vice President Nuclear Plant Operations

The Nuclear Renaissance

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Construction
City

Mandate

Preserve a history of safety and reliability at VCS Unit 1 to support construction of Unit's 2 & 3

Safety

- Staying focused on “The Main Thing”

Investment

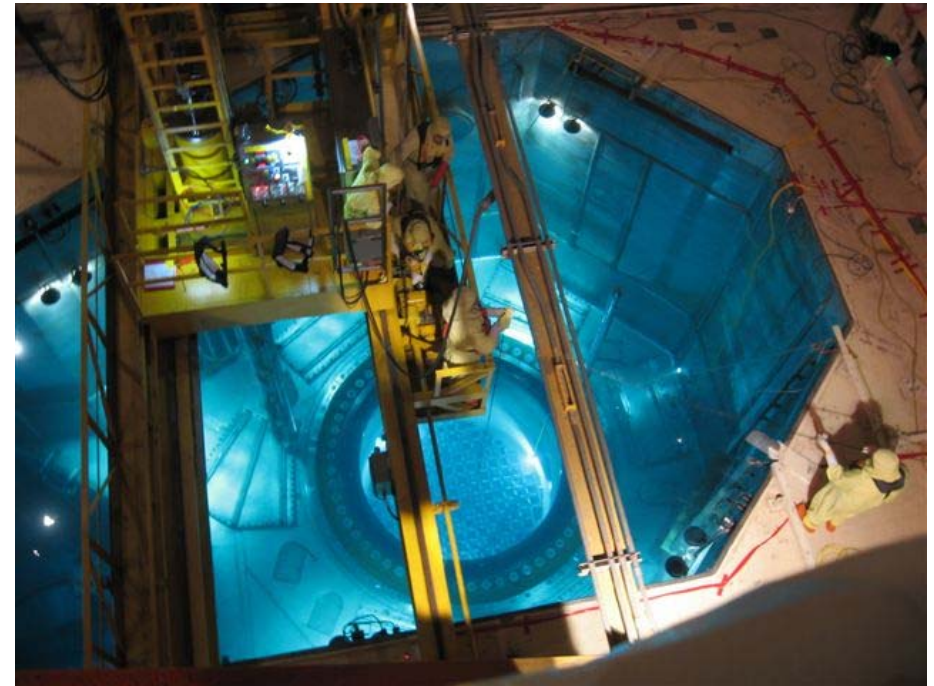
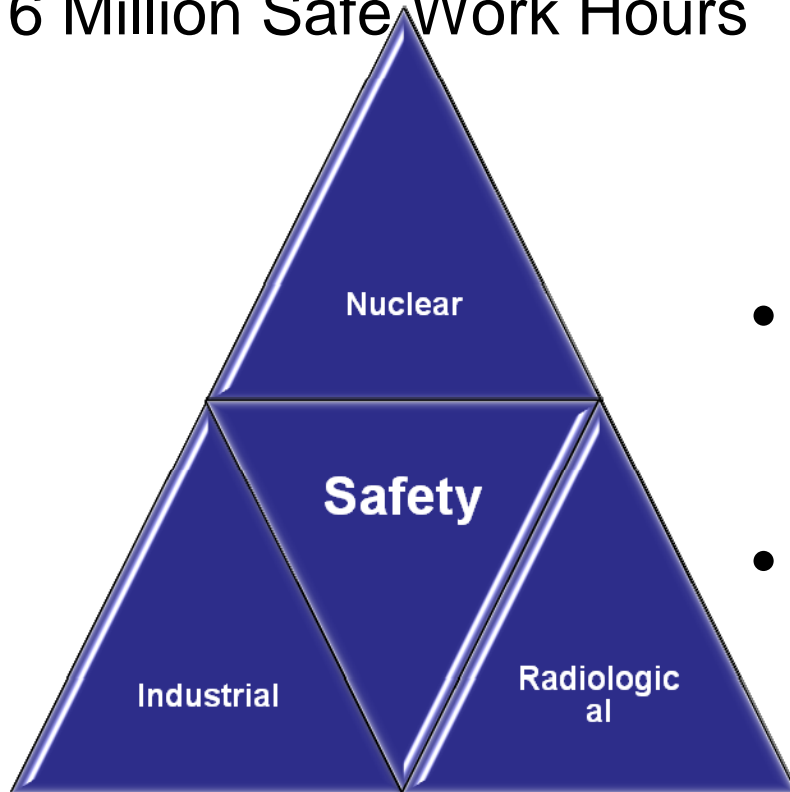
- Upgrading and Maintaining Unit 1

Learning Organization

- Teaching the Safety Culture

Safety – UNIT 1

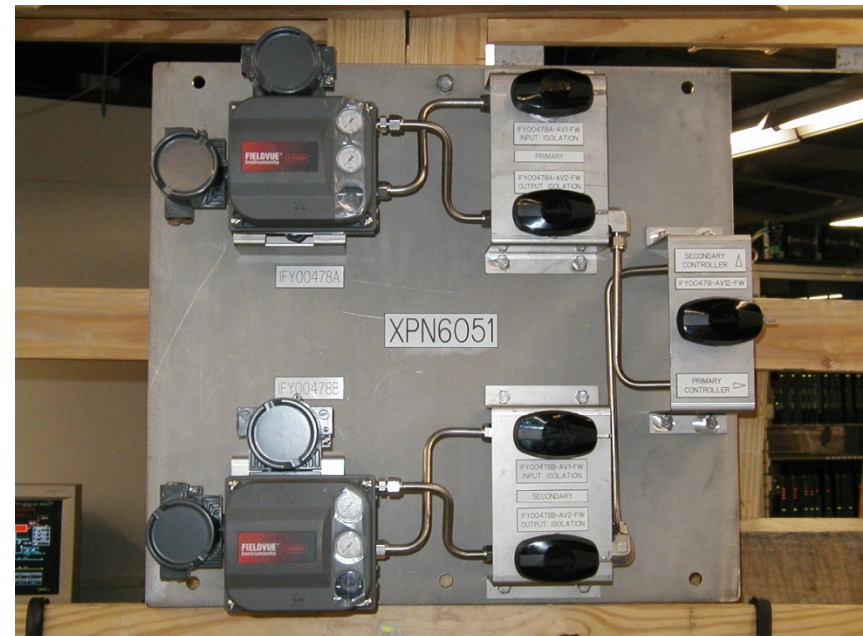
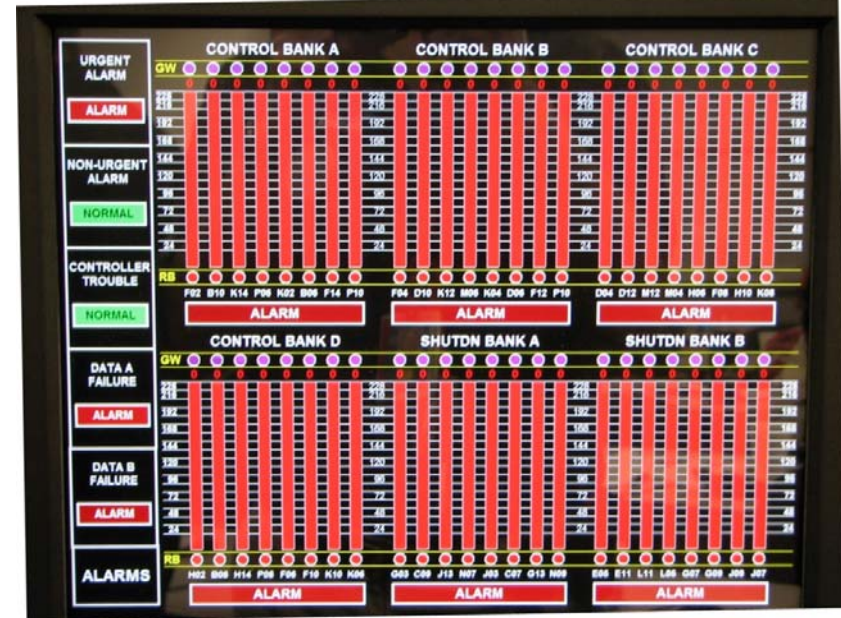
- “Excellent” rank by INPO
- Lowest level of NRC activity
- Record VCS run in 2008-2009
- 6 Million Safe Work Hours



- 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)

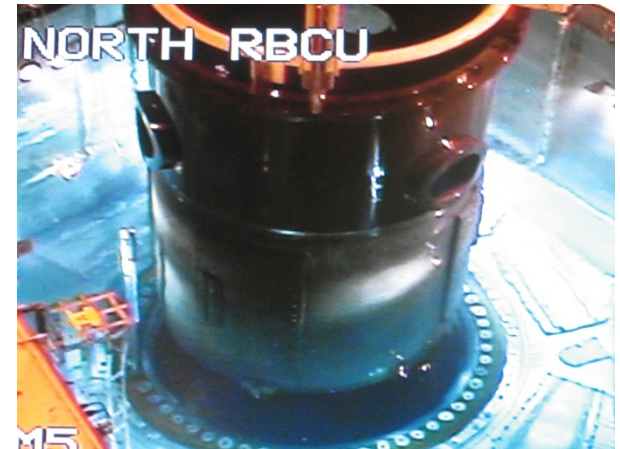
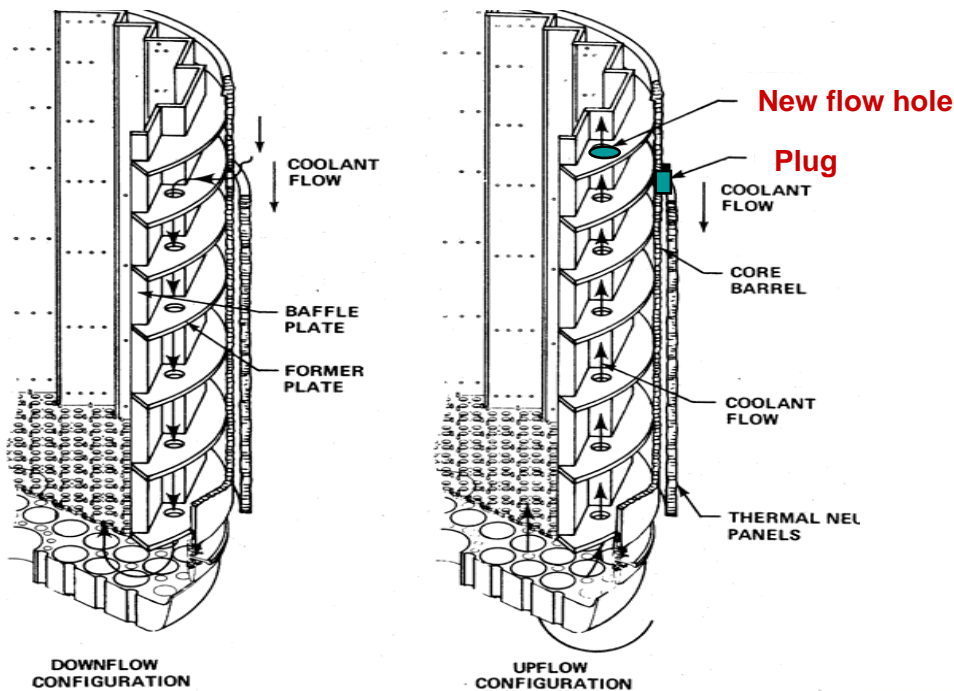
Upgrades in 2009

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



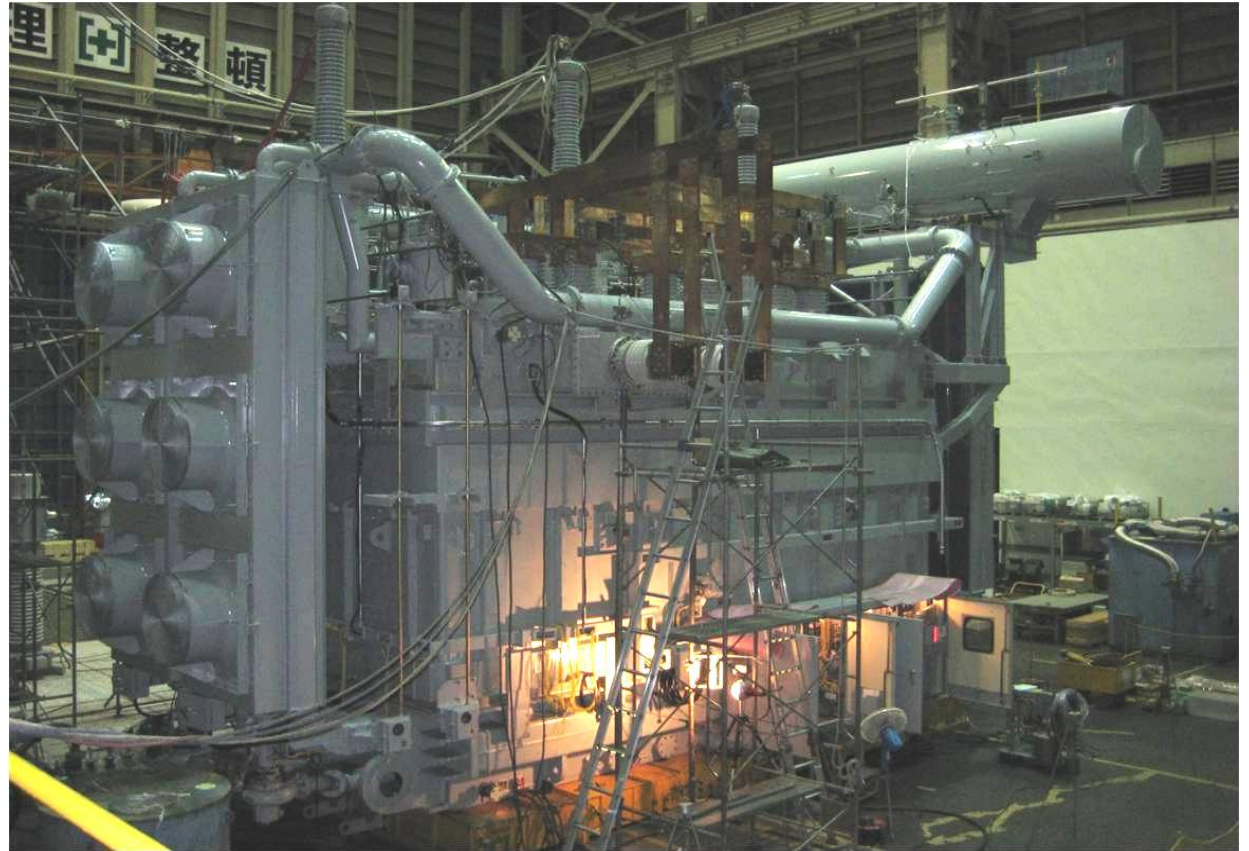
Reactor Vessel Upflow Conversion:

- 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



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Main Transformer Replacement



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Main Transformer Replacement

Main Transformer

Spare Transformer



Main Transformer Replacement

New Main Transformer

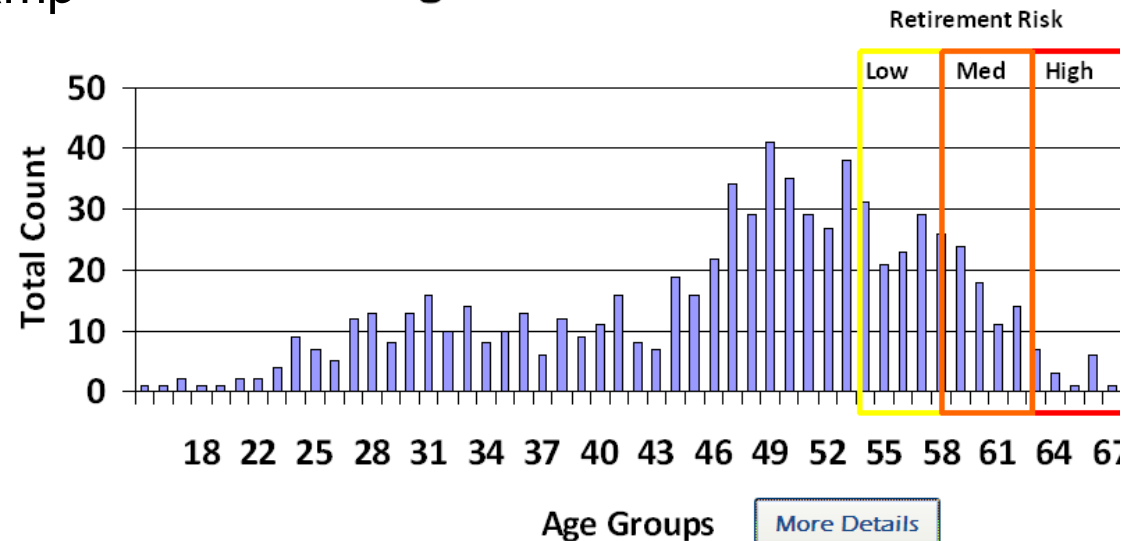


Learning Organization

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



Age Distribution



Questions?