TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT

UNIT 1 RESTART

NRC Commission Briefing

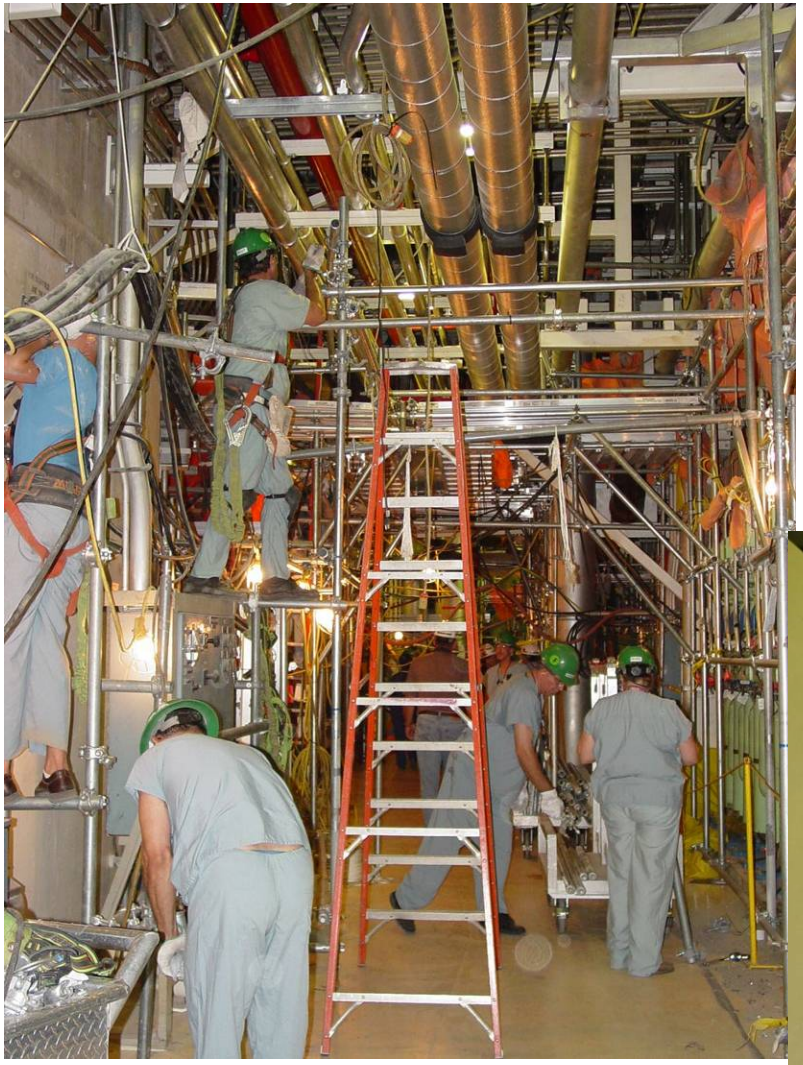
January 10, 2007

Agenda

• Introduction	Karl Singer
• Unit 1 Recovery Overview	Ashok Bhatnagar
• Recovery Process	Masoud Bajestani
• Operational Readiness	Brian O'Grady
• Conclusion	Karl Singer

Introduction

- We are Confident that it is Safe to Operate Browns Ferry Unit 1
  - Identical to Units 2 & 3 restart processes
    - Rigorous design and modification process through turnover to operations
    - Extensive testing, self assessments and quality oversight
    - Unit 1 returns to service with improved margins
  - Operational perspective throughout modification and testing
  - Time and resources to do the job right



Control Rod Drive Accumulators
Elevation 565 West side
November 2006

December 2006

Reactor Water Cleanup
Pump 1A
Elevation 593
December 2002

December 2006

Standby Liquid Control

Elevation 639

May 2002

December 2006

Unit 1 Recovery

- Regulatory Framework Agreed to Between NRC and TVA
- Unit 1 Recovery Based on Lessons Learned from Units 2 & 3
- Scope of Unit 1 Restart Project Incorporated:
  - The same restart programs as Units 2 & 3
  - The same upgrades as installed on Units 2 & 3 including Power Uprate (105%)
- Unit 1 has the Same Licensing Basis as Units 2 & 3
- Unit 1 is Operationally Similar to Units 2 & 3
- Effective Recovery Process used for Units 2 & 3 Yielded a Ten Year Gross Capacity Factor - 91.5%

Rigorous Recovery Process

- Project is 98% Complete
  - All design modification packages issued
  - Bulk of design modifications implemented
    - Drywell work complete
    - Reactor Building work essentially complete
    - Remaining work is primarily balance of plant systems
    - NRC inspection of 26 of 30 Special Programs complete
  - 38 Systems modification complete
  - Two Phased approach to system completion
    - Modification and component testing complete
    - System and surveillance testing complete

System Turnover & Test

- Restart Test Program
  - Purpose
  - Post-maintenance and post-modification component testing
  - System testing
  - Integrated system testing
- System Turnover Process
  - Organizations Involved
  - Key Elements
  - Rigorous / Disciplined approach to demonstrating system operability
  - Results to date

System Turnover & Test

- Fuel Load Completed December 22, 2006

- Power Ascension Test Program
  - Systematic, controlled approach to full power
  - Single pump trip tests
  - Large transient testing
    - Generator load reject
    - Main steam line isolation valve closure

Trained/Qualified Staff

- Staffed for Safe Three Unit Operation
- Successful Transition to an Operating Organizational Structure
- Operations Organization
  - Experienced staff
  - Licensed on all three Units

Comprehensive Oversight

- Self Assessments
  - Department Self Assessments
  - Challenge Boards
  - Corrective Action Program
- Operational Readiness Assessment Program
  - Nuclear Safety Review Board (with external members)
  - Institute of Nuclear Power Operation Review
- Nuclear Assurance
  - Formal program audits
  - Focused assessments
  - Unit 1 Startup Oversight Plan
- NRC Inspection Activities

Brian O'Grady

Conclusion

- Work is Nearly Done
- Recovery Processes are Effective and Yielding Positive Results in our Testing
- Readiness Reviews and Assessments Complete
- Plant Ownership is Imposing High Standards of Nuclear Safety
- Regulatory Process and Communications are Sound