

Browns Ferry Nuclear 95003 Part 1 Inspection Public Exit Meeting

**Browns Ferry Nuclear Station
Athens, AL
October 3, 2011**



Agenda

- **Introduction**
- **Inspection Results**
- **TVA Comments**
- **NRC Closing Remarks**
- **NRC available to address public questions**



Finding of Red Risk Significance

Background

- Residual heat removal (RHR) system flow control valve failure was discovered October 23, 2010
- The residual heat removal system is primarily used for low pressure coolant injection during accident conditions and cooling while the reactor is shutdown

Basis for Red Significance

- TVA's fire mitigation strategy
- Specific fire scenarios assumed unavailability of both low pressure coolant injection loops
- Automatic valve function was lost



Finding of Red Significance

Process the Red Finding:

- **Feb 9, 2011 - NRC issued an apparent violation**
- **April 4, 2011 - Regulatory Conference was held with Tennessee Valley Authority (TVA)**
- **May 9, 2011 - NRC issued a Final Significance Determination letter and Notice of Violation**
- **June 8, 2011 - TVA submitted an appeal of the Red finding**
- **June 22, 2011 - Region II established an independent panel to review TVA's concerns**
- **August 16, 2011 - NRC issued a final response following completion of the independent review. TVA was informed that the RED finding was substantiated.**



Performance Assessment for Browns Ferry during last year

	Q2 2010	Q3 2010	Q4 2010	Q1 2011	Q2 2011
Unit 1	Degraded Cornerstone		Multiple Repetitive/ Degraded Cornerstone		
Finding	Yellow Violation of 10 CFR 50 Appendix R III.G.1 & III.G.2		Low Pressure Coolant Injection Valve Failure		
Unit 2	Degraded Cornerstone			Licensee Response	
Finding	Yellow Violation of 10 CFR 50 Appendix R III.G.1 & III.G.2				
Unit 3	Degraded Cornerstone			Licensee Response	
Finding	Yellow Violation of 10 CFR 50 Appendix R III.G.1 & III.G.2				



Increased Oversight Inspections

- **Supplemental Inspections Conducted in Three Parts (IP 95003)**
 - ❑ **Part 1 - Component Testing Programs**
 - ❑ **Part 2 - Maintenance Programs**
 - ❑ **Formal 95003 Procedure**
 - **Includes third-party review of safety culture assessment**



Overview of Part 1 Inspection

- **Inspection conducted September 12th - 23rd , 2011**
- **Team Members:**
Bob Orlikowski Mike Farnan John Huang
Jared Nadel Lou Lake
- **Inspection Focus**
 - ☐ **Motor Operated Valve(MOV) program**
 - ☐ **Inservice Testing (IST) Program**
 - ☐ **Corrective Action Program (CAP)**
 - ☐ **Immediate corrective actions taken to address the valve failure**
 - ☐ **Evaluation of impact on equipment reliability**



Overview of Part 1 Inspection

Part 1 inspection scope:

- **Motor Operated Valve Capability:**
 - ☐ Sampled risk significant valves
 - ☐ Reviewed MOV Program Scope, Design Calculations, Testing, Trending, Maintenance, and program changes
- **Inservice Testing of Pumps and Valves:**
 - ☐ Review IST program
 - ☐ Reviewed pump and valve testing
- **Inspect immediate corrective actions**
 - ☐ Licensee actions to correct the valve failure
 - ☐ Extent of condition related to other valves



Overview of Part 1 Inspection

Results:

- **MOV, IST, and CAP governing procedures were generally found acceptable**
 - ☐ Programs generally meet the requirements of the NRC's rules and regulations
- **Several issues were identified in two main areas**
 - ☐ Programmatic requirements
 - ☐ Implementation of the programs
- **One issue was identified involving accuracy of information submitted to the NRC**
 - ☐ MOV program document
- **Additional observations identified**

TVA Comments



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 - (301) 816-5100 (call collect)
- **Report a safety concern**
 - (800) 695-7403
 - Allegation@nrc.gov
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 - www.nrc.gov
 - Select “What We Do” for Public Affairs



NRC Representatives

- **Len Wert, Deputy Regional Administrator for Operations**
- **Rick Croteau, Division Director, Division of Reactor Projects**
- **Eugene Guthrie, Branch Chief, Special Project, Browns Ferry**
- **Thierry Ross, Senior Resident Inspector**
- **Craig Kontz, Senior Project Engineer, Special Project, Browns Ferry**



Reference Sources

- **Reactor Oversight Process**

<http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/index.html>

- **Public Electronic Reading Room**

<http://www.nrc.gov/reading-rm.html>

- **Public Document Room**

1-800-397-4209 (Toll Free)