

Browns Ferry Nuclear 95003 Part 2 Inspection Public Exit Meeting

Browns Ferry Nuclear Station Athens, Al January 26, 2012





- 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

Processing 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

	Q1 2011	Q2 2011	Q3 2011	Q4 2011
Unit 1	Multiple Repetitive/ Degraded Cornerstone Low Pressure Coolant Injection Valve Failure			
Unit 2	Licensee Response			
Unit 3	Licensee Response			



Increased Oversight Inspections

 Supplemental Inspections Conducted in Three Parts (IP 95003)
 Part 1 - Component Testing Programs

• Completed Sept 2011 - IR 05000259/2011011

Part 2 - Maintenance Programs

- **Part 3 Formal 95003 Procedure Completion**
 - Includes review of third-party safety culture assessment



Overview of Part 2 Inspection

• Three weeks of on-site inspections:

- October 3 through 7, 2011
- November 7 through 11, 2011
- November 28 through December 2, 2011
- Team Members: John Jandovitz
 Zelig Falevits
 Eric Michel
 Shane Sandal
 Tom Morrissey

PE Region III Sr Electrical Insp Sr Construction Insp Sr Mech Inspector Senior Resident



Overview of Part 2 Inspection

Inspection Scope:

- Identify and evaluate past equipment maintenance issues
- Field observations of scheduled maintenance
- Review and evaluate adequacy of the maintenance program
 - Evaluate programmatic support of station equipment reliability
- Verify systems are capable of performing their safety function
- Assess safety culture aspects associated with maintenance activities



Part 2 Inspection Results

Issues

One issue was identified for not entering and evaluating a condition adverse to quality in the corrective action program (CAP)

Safety Culture

- Ongoing 95003 inspection
 - NRC is reviewing results from safety culture surveys performed by the plant in 2011
- Inspection Insights
 - Use of the corrective action program
 - Enforcement of procedure usage
 - Standards and expectations



Part 2 Inspection Results

Observations

- Site demonstrated low standards for procedure implementation and adherence
- Identified weaknesses in the implementation of the maintenance program
- Ineffective actions to improve equipment reliability
- Equipment Reliability performance objectives were not aligned with site corrective actions
- Management did not implement existing standards for improving equipment reliability



Part 2 Inspection Results

Summary

- No immediate safety concerns were identified
- Equipment Reliability
 - Maintenance backlog
 - Work prioritization and scheduling
- Significant Repetition / Rework Maintenance
 - Identification and trending
 - Program implementation



TVA Comments



Open to the Public

- NRC places a high priority on keeping the public and stakeholders informed of its activities.
- At www.nrc.gov, you can:
 - Find public meeting dates and transcripts;
 - Read NRC testimony, speeches, press releases, and policy decisions; and
 - Access the agency's Electronic Reading Room to find NRC publications and documents.



Contacting the NRC

- Report an emergency

 (301) 816-5100 (call collect)
- Report a safety concern
 - (800) 695-7403
 - Allegation@nrc.gov
- General information or questions
 - www.nrc.gov
 - Select "What We Do" for Public Affairs



NRC Representatives

- Len Wert, Deputy Regional Administrator for Operations
- Jimi Yerokun, Deputy Division Director, Division of Construction Inspection
- Eugene Guthrie, Branch Chief, Special Project, Browns Ferry
- Thierry Ross, Senior Resident Inspector
- John Jandovitz, Project Engineer, RIII



Reference Sources

<u>Reactor Oversight Process</u>

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)