

# 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**



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### **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)