# Browns Ferry 95003 Supplemental Inspection Exit Meeting

**Nuclear Regulatory Commission – Region 2** 



## Introduction



# Agenda

- Prior Inspection and Assessment Activities
- Findings and Observations
- Overall Assessment
- Next Steps
- NRC Closing Remarks
- Public Questions



#### **Unit 1 Performance Assessment**

- Multiple Repetitive Degraded Cornerstone on Agency Action Matrix(Column 4)
  - High safety significance finding
    - Residual Heat Removal (RHR) System Flow Control Valve Failure on October 23, 2010



### Supplemental Inspection

- Inspection Procedure 95003 is required by Multiple Repetitive Degraded Cornerstone (Column 4)
  - Review of Programs and Processes
  - Safety Culture Review
  - Comprehensive, Intrusive, and Diagnostic



# Supplemental Inspection Was Conducted In Three Parts

- Part 1 Component Testing Programs
  - Completed September 2011 IR 05000259/2011011
- Part 2 Maintenance Programs
  - o Completed December 2011 IR 05000259/2011012
- Part 3 Comprehensive/Programmatic
  - Completed May 24<sup>th</sup>



### Part 3 -Inspection Overview

- TVA Notified NRC in February, 2013, of Readiness for the Inspection
- NRC Assembled 23 Member Team from Regions and Headquarters
  - Conducted Training and In-office Inspection
- Completed On-site Inspection May 24th



### Summary of 95003 Inspection Scope

- Evaluate and assess licensee:
  - Corrective Actions to Improve Performance
  - The Long Term Plan for Improvement
- Major Site Program Areas (all three units)
- NRC Inspection of Safety Culture
  - Review of Third-party Safety Culture Assessment
  - Independent Safety Culture Interviews



#### **NRC Team Found**

- Facility is Being Operated Safely
- Gains Made Toward Improved Performance
- There is an Improved Attitude in the Safety Culture
- Improved Equipment Reliability and Performance
  - Comprehensive Processes Established
  - Focused Resources to Improve Performance



#### NRC Team Also Found

- Improvement Needed in
  - Higher Margin in Standards of Performance
  - Demonstrate Site Standards while Performing Duties and Responsibilities
- Additional Actions Needed for the Integrated Improvement Plan (IIP) to Address Effective and Sustained Safety Culture Improvement
  - Integrated Improvement Plan Revision



#### NRC Team Also Found

Integrated Improvement Plan Revisions

- Systematic Plan to Address Procedure Quality
- Human Performance Verification Program Upgrade
- Effective Organizational Focus to Drive Behaviors to Get Desired Outcome
- Safety Culture Continuous Improvement and Sustainability



#### NRC Team Also Found

Integrated Improvement Plan Implementation

- Equipment Reliability
  - Work Management Processes Need Continued Improvement





#### **NRC Team Found**

- Several NRC Identified Findings
  - Represented in 2 Reactor Oversight Process Cornerstones
  - Include Several NRC Safety Culture Components
  - Preliminarily Assessed as Very Low Safety Significance (Green)
  - One Finding Assessed in Accordance With the NRC Enforcement Policy



# Criteria for NRC Assessment of TVA's Performance

- Corrective Actions Show Improving Performance
- Performance Improving Consistent with Revised Integrated Improvement Plan (IIP)
- Performance Capable of Improving Long-term



#### **Overall Assessment Conclusions**

- Facility is Being Operated Safely
- Gains Have Been Made Toward Improved Performance
- Demonstrated Commitment To Implementation of the Integrated Improvement Plan
- Closure of Two Longstanding SCCIs
- Equipment Reliability is Improving



### Overall Assessment Conclusions (continued)

- Promptly Initiated Steps to Address the Integrated Improvement Plan Inspection Issues
- Need to Achieve a Higher Margin in Standards of Performance
- Continued Implementation of the Revised Integrated Improvement Plan Should Lead to Substantial and Sustained Performance Improvement



### What Happens Next?

- Licensee Actions to Address Inspection Identified Issues
  - Entered Issues Into Corrective Action Program
  - Modify Integrated Improvement Plan as Needed
- Regulatory Actions
  - Issue NRC Inspection Report
  - Confirmatory Action Letter (CAL)



### What Happens Next? (continued)

- Reactor Oversight Process
  - Follow up Inspections
  - Evaluate IIP Performance Trends
  - Assess Inspection Results and IIP Performance per the Action Matrix

# **End of Presentation**

Nuclear Regulatory Commission Region 2



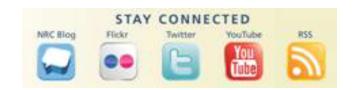
# Open to the Public



- 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.

# NRC Social Media Channels





Blog: <a href="http://public-blog.nrc-gateway.gov/">http://public-blog.nrc-gateway.gov/</a>

Flickr: <a href="http://www.flickr.com/photos/nrcgov/">http://www.flickr.com/photos/nrcgov/</a>

Twitter: <a href="https://twitter.com/#!/nrcgov">https://twitter.com/#!/nrcgov</a>

YouTube: <a href="http://www.youtube.com/user/NRCgov">http://www.youtube.com/user/NRCgov</a>

RSS: <a href="http://www.nrc.gov/public-involve/listserver.html#rss">http://www.nrc.gov/public-involve/listserver.html#rss</a>

# Actions in Response to the Japan Nuclear Accident



 Actions in response to Japan Nuclear Accident Website: <a href="http://www.nrc.gov/japan/japan-

- Mailbox for comments on staff actions: <u>JLD\_Public.Resource@nrc.gov</u>
- Office of Public Affairs Point of Contact: <u>OPA.resource@nrc.gov</u> or 301-415-8200

# 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
- Contact Browns Ferry Resident Inspectors
  - 256-729-6196