



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
245 PEACHTREE CENTER AVENUE NE, SUITE 1200  
ATLANTA, GEORGIA 30303-1257

July 17, 2013

Mr. Joseph Shea  
Manager, Corporate Nuclear Licensing  
Tennessee Valley Authority  
4B Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

SUBJECT: PUBLIC MEETING SUMMARY FOR BROWNS FERRY NUCLEAR PLANT,  
DOCKET NO. 50-259, 50-260 and 50-296

Dear Mr. Shea:

This refers to the meeting conducted near the Browns Ferry Nuclear Plant on July 11, 2013. The meeting's purpose was to present the annual assessment of the Browns Ferry Nuclear Plant performance and to provide opportunities to discuss with the public the NRC Reactor Oversight Process. The purpose of this meeting was also to discuss the results of the NRC supplemental inspections performed in accordance with Inspection Procedure 95003, "Supplemental Inspection for Repetitive Degraded Cornerstones, Multiple Degraded Cornerstones, Multiple Yellow Inputs, or One Red Input," at the Browns Ferry Nuclear Plant.

A list of attendees and a copy of the presentation handout are enclosed.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Should you have any questions concerning this meeting, please contact me at (404) 997-4662.

Sincerely,

*/RA/*

Craig Kontz, Acting Chief  
Special Project, Browns Ferry  
Division of Reactor Projects

Docket No.: 50-259, 50-260, 50-296  
License No.: DPR-33, DPR-52, DPR-68

Enclosures: 1. List of Attendees  
2. Assessment Meeting Presentation  
3. Exit Meeting Presentation

cc w/encls: (See page 2)

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PUBLICLY AVAILABLE       NON-PUBLICLY AVAILABLE       SENSITIVE       NON-SENSITIVE  
 ADAMS:  Yes      ACCESSION NUMBER: \_\_\_\_\_       SUNSI REVIEW COMPLETE       FORM 665 ATTACHED

OFFICE	RII:DRP	RII:DRP	RII:DRP				
SIGNATURE	JXH /RA/	CRK /RA/	EFG /RA/				
NAME	JHeisserer	CKontz	EGuthrie				
DATE	07/16/2013	07/16/2013	07/16/2013				
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY      DOCUMENT NAME: G:\DRP\IRPB6\BROWNS FERRYMEETINGS\2013 EOC AND 95003  
 EXIT PUB MTG SUMMARY.DOCX

J. Shea

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cc w/encls:

K. J. Polson

Site Vice President

Browns Ferry Nuclear Plant

Tennessee Valley Authority

Electronic Mail Distribution

S. M. Bono

Plant Manager

Browns Ferry Nuclear Plant

Tennessee Valley Authority

Electronic Mail Distribution

James E. Emens

Manager, Site Licensing

Browns Ferry Nuclear Plant

Tennessee Valley Authority

Electronic Mail Distribution

E. W. Cobey

Manager, Corporate Licensing

Browns Ferry Nuclear Plant

Tennessee Valley Authority

Electronic Mail Distribution

T. A. Hess

Program Manager

Corporate Licensing

Tennessee Valley Authority

Electronic Mail Distribution

Edward J. Viglucci

Associate General Counsel, Nuclear

Tennessee Valley Authority

Electronic Mail Distribution

Chairman

Limestone County Commission

310 West Washington Street

Athens, AL 35611

State Health Officer

Alabama Dept. of Public Health

P.O. Box 303017

Montgomery, AL 36130-3017

J. Shea

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Letter to Joseph W. Shea from Craig Kontz dated July 17, 2013

SUBJECT: PUBLIC MEETING SUMMARY FOR BROWNS FERRY NUCLEAR PLANT,  
DOCKET NO. 50-259, 50-260 and 50-296

Distribution w/encls:

C. Evans, RII

L. Douglas, RII

OE Mail

RIDSNRRDIRS

PUBLIC

RidsNrrPMBrownsFerry Resource

**NRC ATTENDEES**

V. McCree, Regional Administrator, Region II  
E. Guthrie, Chief, Special Project, Browns Ferry, DRP, RII  
R. Skokowski, Chief, Plant Support Branch, DRS, RIII  
C. Kontz, Acting Chief, Special Project, Browns Ferry, DRP, RII  
D. Dumbacher, Senior Resident Inspector, Browns Ferry, DRP, RII  
L. Pressley, Resident Inspector, Browns Ferry, DRP, RII  
J. Eargle, Senior Reactor Inspectors, DRS, RII  
J. Heisserer, Senior Project Engineer, Reactor Project Branch 6, DRP, RII  
C. White, Administrative Assistant, Browns Ferry, DRP, RII

No.	Name	Organization
	CALLED IN BY BRIDGELINE	
	John Jacosalem	OIG-TVA
	Sam Hansell	SRI @ NRC
	Dabin Ki	NRC
	Farideh Saba	Project Mgr.NRC
	Molly Keefe	NRR
	Jeff Hanson	Omaha Public Pwr
	Mandy Hancock	<small>Southern Alliance for Clean Energy</small>
	Atif Shaikh	RIII NRC
	Carolyn Evans	RII NRC
	Buffy Allen	RII NRC
	Brian Paddock	Sierra Club
	Mary Powers	Platts

No.	Name	Organization
	RICHARD SPARKS	SALVATORE WINDY
	PAUL SCHAFFER	" "
	Amy Reay	TVA
	Jeni N Johnson	
	Ken McCreary	TVA
	BRETT McCREARY	TVA
	JIM MORRIS	TVA
	Stewart Horn	BEST/MERR
	Gerard J Doyle	TVA
	M.D. WOOD	KPS, LLC
	Charles Stephens	Times
	CRYSTAL COOVERT	TVA
	KUGER & SP	No
	Jackie Posey	Shoals Env Alliance etc.
	Joe Rahn	SIPITE







# Browns Ferry Annual Assessment Meeting

**2012 Reactor Oversight Process  
Nuclear Regulatory Commission – Region 2**



# Agenda



- Introduction
- Reactor Oversight Process
- Browns Ferry Performance Results
- Break

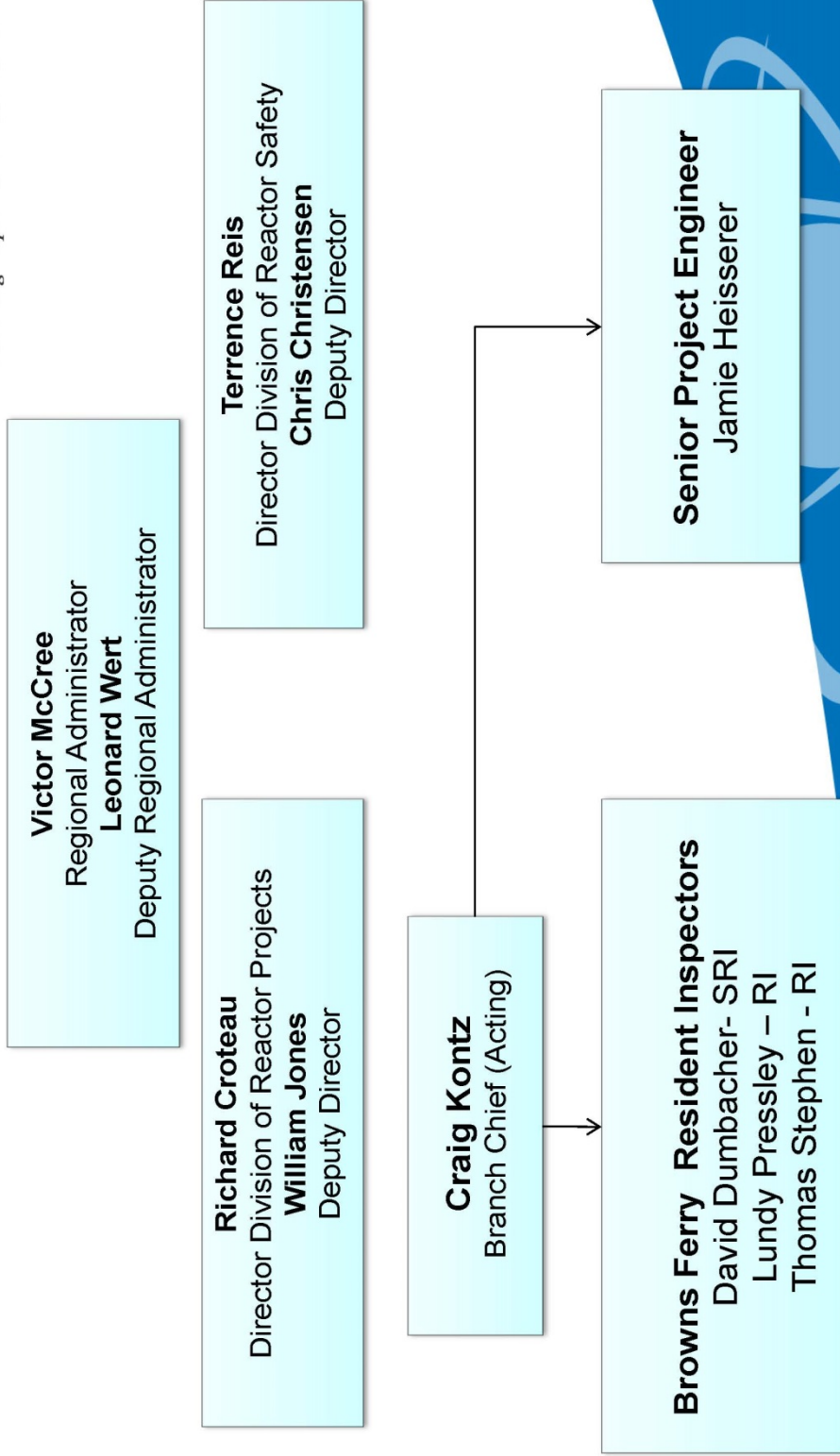
# Meeting Purpose



- Discuss Browns Ferry's performance in 2012
- Address performance issues identified in the annual assessment



# Region II Organization

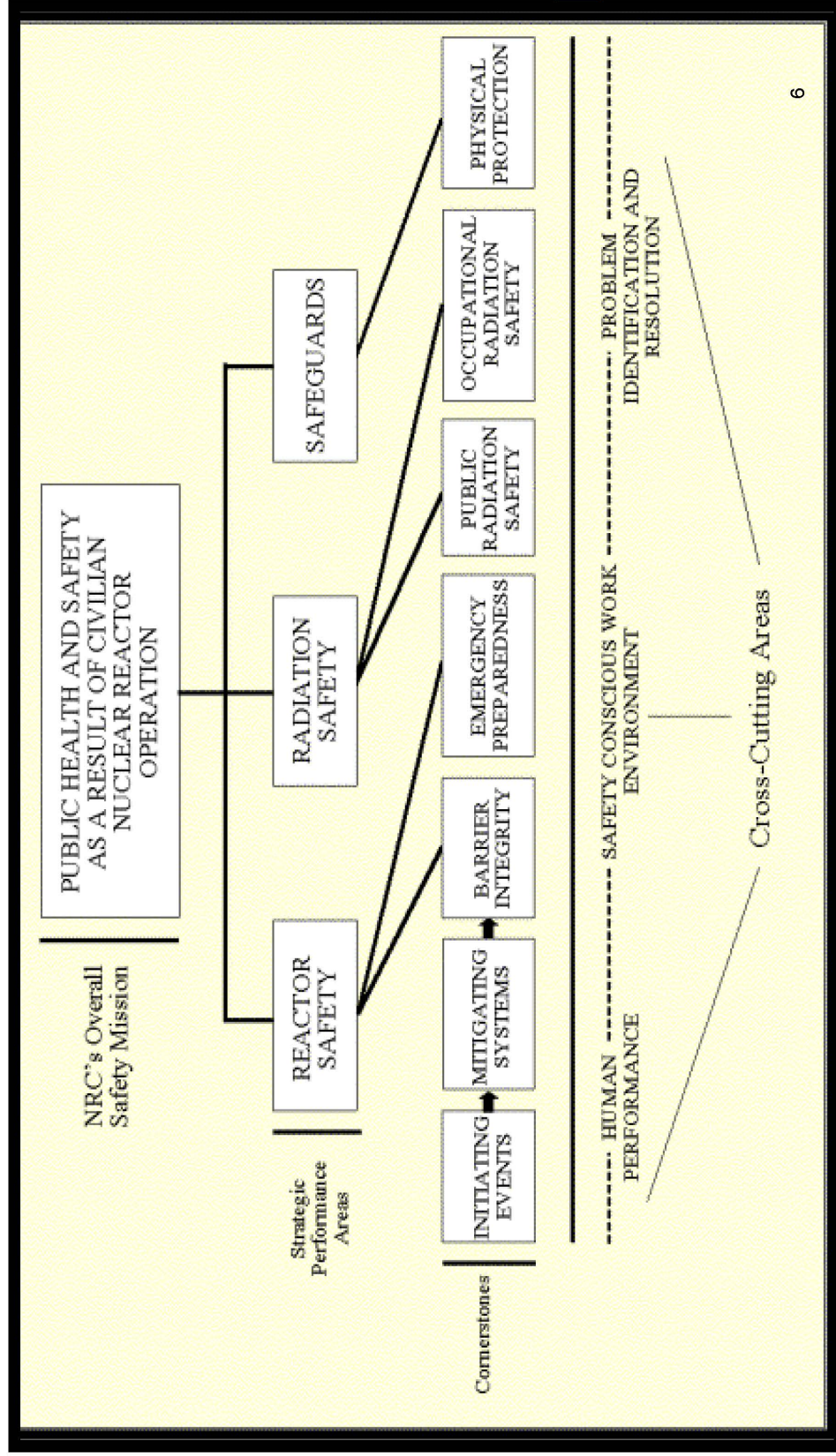


# NRC Strategic Plan Goals

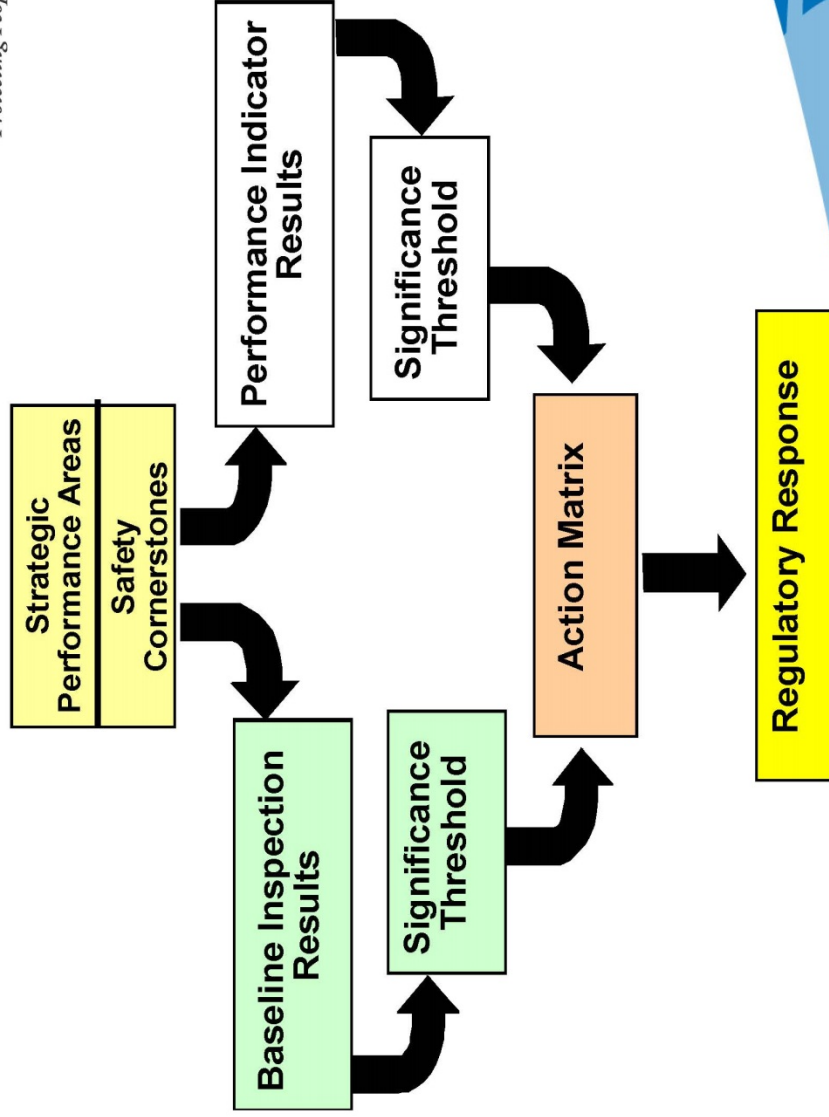


- Safety – Ensure adequate protection of public health and safety and the environment
- Security – Ensure adequate protection in the secure use and management of radioactive materials

# Regulatory Framework



# Reactor Oversight Process

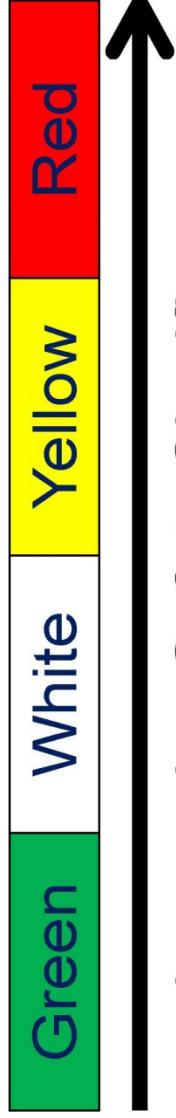




# Significance Threshold

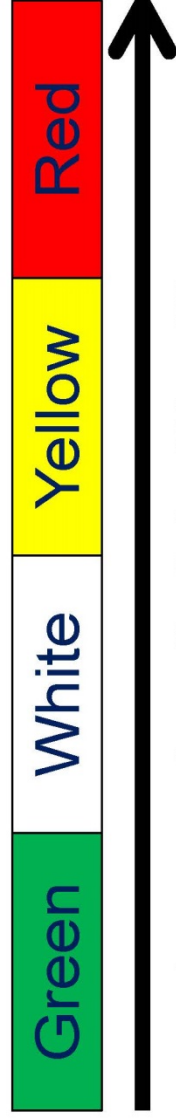


## Performance Indicators



Increasing Safety Significance

## Inspection Findings



Increasing Safety Significance



# Action Matrix Columns



Licensee Response	Regulatory Response	Degraded	Multiple/Repetitive Degraded	Unacceptable Performance
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## Increasing

- Safety Significance
- Inspection
- Management Involvement
- Regulatory Action



# NRC Inspection Activities

January 1 through December 31, 2012



- Over 8,500 hours of inspection and related activities
- Resident inspectors on site which provide daily plant inspection
- Regional Inspections
- Major Team Inspection for Problem Identification and Resolution inspection
- Supplemental/Infrequently Performed Inspections

## For Browns Ferry Units 1, 2, & 3

TVA operated the plants safely and in a manner that preserved the public health and safety and protected the environment.

## Unit 1 was in the Multiple/Repetitive Degraded Cornerstone Column

- RED finding in the mitigating systems cornerstone associated with the failure of a Low Pressure Coolant Injection Valve

## Unit 2 was in the Degraded Cornerstone Column

- White Performance Indicator in the Mitigating Systems Cornerstone
- White finding in the Mitigating Systems Cornerstone

## Unit 3 was in the Regulatory Response Column

- White Performance Indicator in the Initiating Events Cornerstone
- White finding in the Mitigating Systems Cornerstone

# NRC Annual Assessment Summary

## Substantive Cross-Cutting Issues (SCCI)

Two Long Standing SCCIs open:

- Problem Identification and Resolution, :  
“Thorough evaluation of identified problems“
- Problem Identification and Resolution, :  
“Appropriate and timely corrective actions”

SCCI’s addressed during TVA’s third party safety culture assessment for the Supplemental Inspection for the Red finding

# NRC Annual Assessment Summary

## Substantive Cross-cutting Issues (SCCI)

### One SCCI opened:

Cross-cutting theme in the Resources component of the Human Performance & Error Prevention associated with Complete Documentation and Component Labeling

SCCI existed because actions had not yet proven effective in substantially mitigating the cross-cutting theme and the NRC had a concern with the scope of effort and progress in addressing the cross-cutting theme

# NRC Annual Assessment Summary Browns Ferry Units 1, 2, & 3



- All cornerstone objectives met
- NRC baseline inspections for all 3 Browns Ferry Units for 2013
- Supplemental Inspections



# End of Presentation

## Nuclear Regulatory Commission Region II



# 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

# 95003 Supplemental Inspection



## 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

# 95003 Supplemental Inspection



## 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



# 95003 Supplemental Inspection



## Supplemental Inspection Was Conducted In Three Parts

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



# 95003 Supplemental Inspection



## 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

# 95003 Supplemental Inspection



## 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



# 95003 Supplemental Inspection Results



## 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

# 95003 Supplemental Inspection Results



## 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



# 95003 Supplemental Inspection Results



## 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



# 95003 Supplemental Inspection Results



## NRC Team Also Found

### Integrated Improvement Plan Implementation

- Equipment Reliability
  - Work Management Processes Need Continued Improvement



# 95003 Supplemental Inspection Results



## 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

# 95003 Supplemental Inspection



## 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



# 95003 Supplemental Inspection Results



## 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



# 95003 Supplemental Inspection Results



## 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



# 95003 Supplemental Inspection Results



## 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)

# 95003 Supplemental Inspection Results



## 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](http://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: <http://public-blog.nrc-gateway.gov/>
- Flickr: <http://www.flickr.com/photos/nrcgov/>
- Twitter: <https://twitter.com/#!/nrcgov>
- YouTube: <http://www.youtube.com/user/NRCgov>
- RSS: <http://www.nrc.gov/public-involve/listserver.html#rss>

# **Actions in Response to the Japan Nuclear Accident**



- Actions in response to Japan Nuclear Accident  
Website: <http://www.nrc.gov/japan/japan-info.html>
- Mailbox for comments on staff actions:  
[JLD\\_Public.Resource@nrc.gov](mailto:JLD_Public.Resource@nrc.gov)
- Office of Public Affairs Point of Contact:  
[OPA.resource@nrc.gov](mailto:OPA.resource@nrc.gov) 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](mailto:Allegation@nrc.gov)
- General information or questions
  - [www.nrc.gov](http://www.nrc.gov)
- Contact Browns Ferry Resident Inspectors
  - 256-729-6196