



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

February 6, 2012

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

Dear Mr. Shea:

This refers to the meeting conducted at the Browns Ferry Nuclear Plant on January 26, 2012. The purpose of this meeting was to discuss the results of the second part of 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/

Eugene F. Guthrie, Chief  
Special Project, Browns Ferry  
Division of Reactor Projects

Docket No.: 50-259  
License No.: DRP-33

Enclosures: 1. List of Attendees  
2. Presentation Handout

cc w/encls: (See page 2)

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X PUBLICLY AVAILABLE       NON-PUBLICLY AVAILABLE       SENSITIVE      X NON-SENSITIVE  
ADAMS:  Yes      ACCESSION NUMBER: ML12037A092      X SUNSI REVIEW COMPLETE

OFFICE	RII:DRP	RII:DRP											
SIGNATURE	/RA/	/RA/											
NAME	CKontz	EGuthrie											
DATE	2/3/2012	2/6/2012											
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

TVA

2

cc w/encls:

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Letter to J. Shea from Eugene F. Guthrie dated February 6, 2012.

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

Distribution w/encls:

C. Evans, RII

L. Douglas, RII

OE Mail

RIDSNRRDIRS

PUBLIC

RidsNrrPMBrownsFerry Resource

**NRC ATTENDEES**

L. Wert, Deputy Regional Administrator, Region II  
Y. Jimi, Deputy Director, Division of Construction Inspection, Region II  
E. Guthrie, Chief, Special Project, Browns Ferry, DRP, RII  
T. Ross, Senior Resident Inspector, Browns Ferry, DRP, RII  
J. Jandovitz, Project Engineer, Reactor Project Branch 5, DRP, RIII  
C. Stancil, Resident Inspector, DRP, RII  
P. Niebaum, Resident Inspector, DRP, RII  
P. Qualls, Fire Protection Engineer, DRS, RIV

NAME	TITLE
Michael Durr	TVA - Engineering
Brian Lawson	The Huntsville Times
Adam Smith	The News Courier
JIM NESBITT	TVA - Board Plans / Comms
R. MARK GUESINBERRY	TVA - 95003 RECOVERY TEAM
PHIL CHASE	TVA - 95003 IATCPD LEAD
CHRIS B. NEAT	TVA - BFN QA Manager
Art M. O'Neil	TVA - BFN OPS
<b>Jackie Posey</b>	<b>Retired teacher</b>
Tom Pender	Morgan Lewis
SCOTT VANCE	TVA
Thomas Hess	TVA
GARRY MORGAN	BREDL - BEST
Joel Weinbaum	TVA - Retiree
Ben Montgomery	Decatur Daily Reporter
Paul Johnson	MARR
Desert Hoan	Self
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Barbara Cline	Citizen Concerned
James Crow	" "
Paul West	" "
Joseph B. Smith	JOSEPH B. SMITH

NAME	TITLE
M. MORROW	PUBLIC
ALWALLS	BFN
Kim Putman	BFN
Jimmy R Nelson	TVA BFN WWMM
Craig Beasley	Internal Communications
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ROBERT WHALEN	TVA
JIM RANDICH	TVA
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Don Tennison	SVP - TVA
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JOE SHOF	TVA CORPORATE LICENSING
PAUL SUMMERS	Director - Safety & Licen
JAMES EMENS	SITE LIC MGR
Mike Oliver	TVA Licensing
Shepard Miller	Public
Sylvia Whitelouse	TVA OIG
Jamie Wykle	TVA OIG

NAME	TITLE
Michael H. HARDEMAN	EX. EMP. TVA
Amy Golden	Athens Utilities



# ***Browns Ferry Nuclear 95003 Part 2 Inspection Public Exit Meeting***

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**Browns Ferry Nuclear Station  
Athens, AI  
January 26, 2012**

1



## ***Agenda***

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

2



## **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

3

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## **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.

4

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## Performance Assessment for Browns Ferry during last year

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

5

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## 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

6

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## 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:**

<b>John Jandovitz</b>	<b>PE Region III</b>
<b>Zelig Falevits</b>	<b>Sr Electrical Insp</b>
<b>Eric Michel</b>	<b>Sr Construction Insp</b>
<b>Shane Sandal</b>	<b>Sr Mech Inspector</b>
<b>Tom Morrissey</b>	<b>Senior Resident</b>

7

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## 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**

8

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## **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

9

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## **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

10

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## **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

11

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## **TVA Comments**

12

Enclosure 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.

13

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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](mailto:Allegation@nrc.gov)
- **General information or questions**
  - [www.nrc.gov](http://www.nrc.gov)
  - Select “What We Do” for Public Affairs

14

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## ***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**

15

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## ***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)**

16

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