



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

May 30, 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 May 15, 2012. The purpose of this meeting was to discuss the status of TVA's preparations for NRC supplemental inspection 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 handouts 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,

/Craig R. Kontz RA for/

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 Handouts

cc w/encls: (See page 2)

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

OFFICE	RII:DRP	RII:DRP					
SIGNATURE	JDH /RA for/	CRK /RA for/					
NAME	CKontz	EGuthrie					
DATE	5/24/2012	5/24/2012					
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

J. Shea

2

cc w/encls:
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Site Vice President
Browns Ferry Nuclear Plant
Tennessee Valley Authority
Electronic Mail Distribution

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Donald E. Williamson
State Health Officer
Alabama Dept. of Public Health
RSA Tower - Administration
Suite 1552
P.O. Box 30317
Montgomery, AL 36130-3017

J. Shea

3

Letter to J. Shea from Eugene F. Guthrie dated May 30, 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

V. McCree, Regional Administrator, Region II
J. Yerokun, Deputy Director, Division of Construction Inspection, Region II
E. Guthrie, Chief, Special Project, Browns Ferry, DRP, RII
C. Kontz, Senior Project Engineer, Special Project, Browns Ferry, DRP, RII
D. Dumbacher, Senior Resident Inspector, Callaway, RIII
C. Stancil, Resident Inspector, Browns Ferry, RII
P. Niebaum, Resident Inspector, Browns Ferry, RII
L. Presley, Resident Inspector, Browns Ferry, RII
R. Stone, Emergency Response Coordinator, DPR, NSIR, HQ

BROWNS FERRY PUBLIC MEETING

Tanner, AL

May 15, 2012

Attendees

<u>Name (Print)</u>	<u>Title and Organization</u>
<u>Preston Swafford</u>	<u>CNO TVA</u>
<u>Don Jernigan</u>	<u>Senior VP TVA</u>
<u>Joe Shea</u>	<u>Corporate Licensing Manager TVA</u>
<u>Gene Cobey</u>	<u>Corporate Licensing TVA</u>
<u>Tim Cleary</u>	<u>VP TVA</u>
<u>Keith Polson</u>	<u>Site VP BFN</u>
<u>Gerald Doyle</u>	<u>Asst Site VP BFN</u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u>Chip Moldenhauer</u>	<u>Public</u>
<u>Nathaneal Massey</u>	<u>Climatewire</u>
<u>Adam Smith</u>	<u>Athens News Courier</u>
<u>Kelli Voelsing</u>	<u>EPRI</u>
<u>Joe Carson</u>	<u>Public</u>
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BROWNS FERRY PUBLIC MEETING

Tanner, AL

May 15, 2012

Attendees

<u>Name (Print)</u>	<u>Title and Organization</u>
Eric Fleischauer M.D. WINGO	The Decatur Daily Huntsville, Alabama
Chris Bennett EARLY EWING	TVA Licensing Public
Mike Oliver Aliaia Pressley	TVA Licensing Public
JAMES EMMES GARRY MORGAN	TVA LICENSING FREDL / BEST
Ronnie Marks Susan Berner	City of Athens Family
Samuel A. Oliver	Family

Browns Ferry Supplemental Inspection Status

US NRC, Region II

May 15, 2012

Introduction

Agenda

- ▶ Inspection Status
- ▶ TVA Comments
- ▶ NRC Closing Remarks
- ▶ NRC available to address public questions

2

High Safety Significance (Red) Finding

What Happened?

- ▶ Residual heat removal (RHR) system flow control valve failed to pass flow on October 23, 2010
 - An internal part in the valve, called the disc, which controls system flow was found stuck
 - the disc was found separated from the stem and could no longer be controlled by the valve motor operator
- ▶ The residual heat removal system is primarily used for low pressure coolant injection during accident conditions and cooling while the reactor is shutdown

3

High Safety Significance (Red) Finding

What's been happening since?

- ▶ NRC Reactor Oversight Process (ROP) Implementation
 - Unit 2 & 3 – Licensee Response (Column 1)– Baseline Inspection
 - Unit 1 Multiple Repetitive Degraded Cornerstone (Column 4) – warrants additional inspections

4

Increased Oversight Inspections

- ▶ Supplemental Inspection Procedure 95003 required by Multiple Repetitive Degraded Cornerstone (Column 4)
 - Most comprehensive, diagnostic supplemental inspection conducted
 - Review of programs and processes

Increased Oversight Inspections

- ▶ Supplemental Inspection, IP 95003, being conducted in three parts
 - Part 1 – Component Testing Programs
 - Completed September 2011 – IR 05000259/2011011
 - Part 2 – Maintenance Programs
 - Completed December 2011 – IR 05000259/2011011
 - Part 3 – Formal 95003 Completion
 - Completion date to be scheduled

95003 Inspection – Overview

▶ Part 3 Inspection

- Part 3 will be performed after TVA has formally informed the NRC that they are ready for the inspection
 - Program Areas
 - Review of third-party safety culture assessment

7

95003 Inspection – Overview

Inspection results are used to:

- ▶ Evaluate licensee corrective actions and the long term plan for improvement
- ▶ Determine acceptability or need for additional NRC actions
- ▶ Assess safety culture
 - Validation of TVA's root cause evaluation
 - Independent assessment of safety culture

8

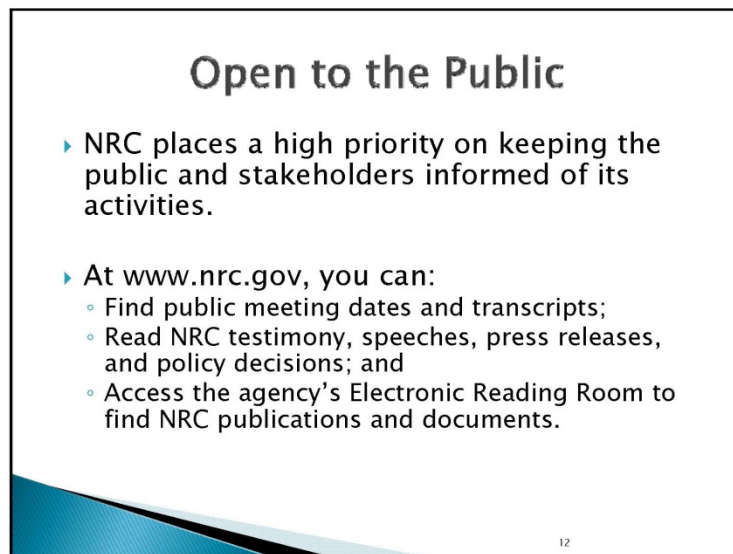
95003 Inspection – Overview

What is the path forward?

- Confidence that performance is improving
- Adequate corrective actions that has shown evidence of improving performance
- Performance improvement plan that has shown improvement

95003 Inspection – Overview

- ▶ NRC follow up activities
 - Verify Licensee follow through of corrective actions (CAL)
 - ROP and Assessment Process Continues
 - Additional oversight as appropriate determined by inspection results



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

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Browns Ferry Nuclear Plant




May 15, 2012


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Discussion Points

- Introduction Preston Swafford
- Response Overview Keith Polson
 - Integrated Improvement Plan
 - Path Forward
- Corporate Governance & Oversight Tim Cleary
- Closing Comments Preston Swafford




2



Introduction


- TVA's Nuclear Fleet Vision
 - Leading the industry in safety, people and performance.
- TVA understands the fundamental issues challenging the station.
- TVA's goal is to *sustain improved performance while reducing operational risk* at the station.
- TVA is finalizing the **Integrated Improvement Plan** and committing the resources necessary to achieve performance goals.

3

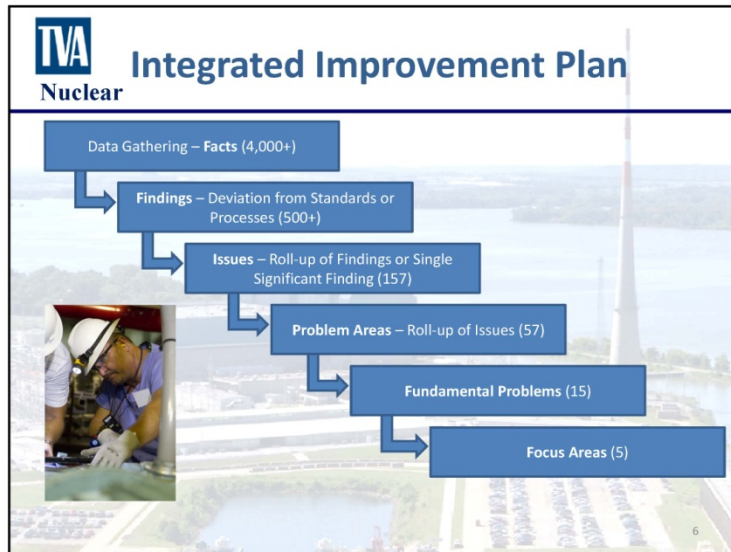
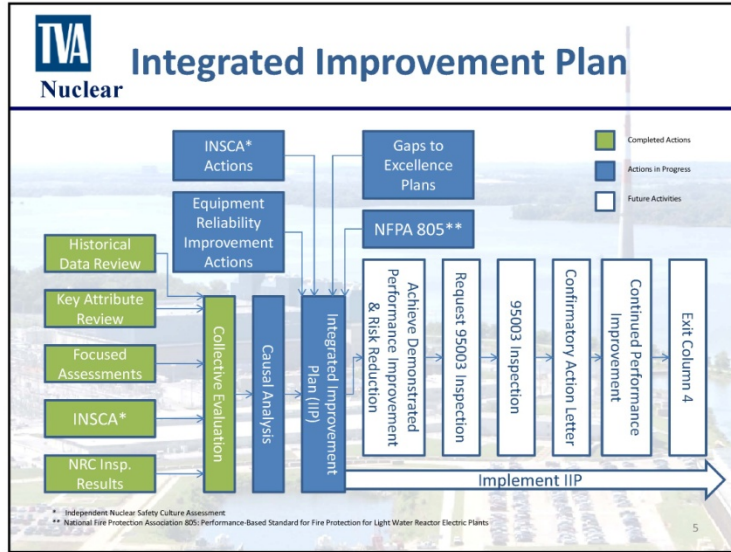


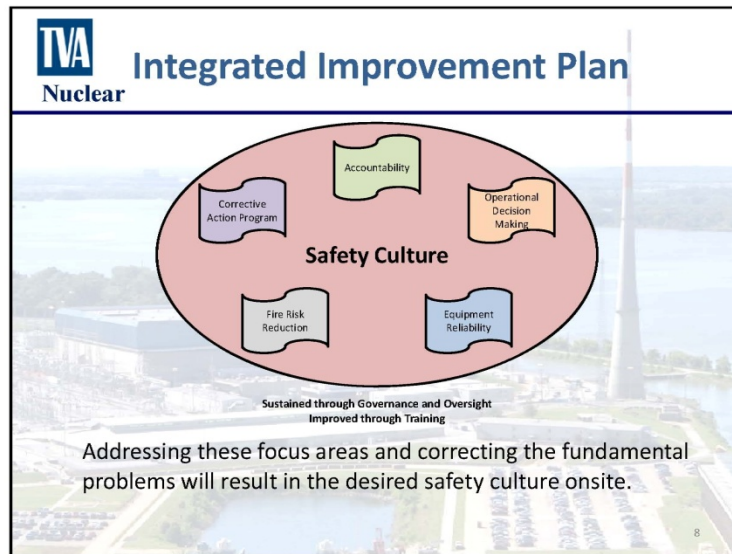
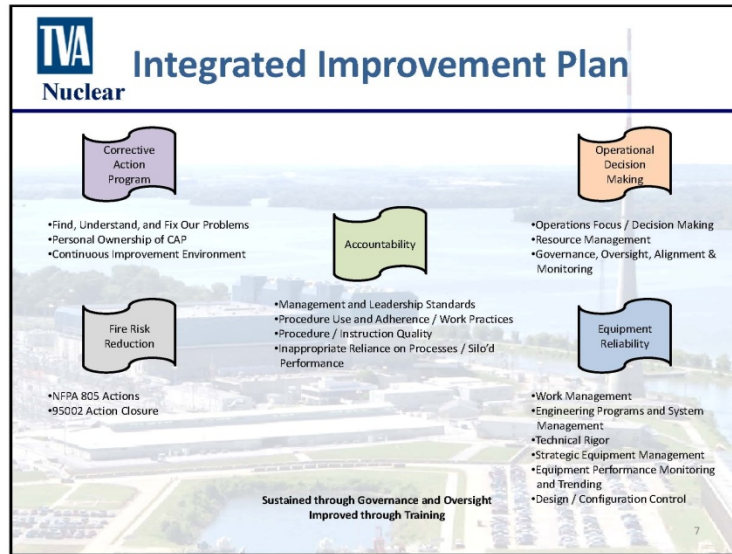
Introduction

- TVA is beginning to see results.
- TVA's Governance, Oversight, Execution, and Support model will be key to achieving and sustaining improved performance.
- TVA will request the 95003 inspection when performance improvement has been demonstrated and continued improvement is sustainable.



4





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Integrated Improvement Plan

- Each Fundamental Problem will have actions with identified performance criteria to monitor effectiveness.
- TVA is developing the Integrated Improvement Plan to:
 - Address the Red Finding, the Fundamental Problems, and the Independent Nuclear Safety Culture Assessment results;
 - Reduce risk;
 - Improve equipment reliability; and
 - Ensure sustained improved performance.



9


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Integrated Improvement Plan

- While the Integrated Improvement Plan is not finalized, many Plan actions are already underway.
 - Corrective Action Program Performance Improvement
 - Risk Reduction Through Equipment Reliability Improvement
 - Risk Reduction Through NFPA 805 Transition
 - Safety Culture Assessment Actions
 - Red Inspection Finding Corrective Actions



10



Initial Successes

Safety

- Nuclear - No significant events during current outage
- Radiological - Reduced personnel exposure by over 35% in current outage
- Personal - Significant reduction of injuries in current outage (4 First Aids; Zero OSHA Recordable Injuries)

Equipment Reliability


- Two consecutive records for continuous operation of all three units
- Pulled forward replacement of 4 key safety system motors (2 residual heat removal and 2 core spray) in current outage

Corrective Action

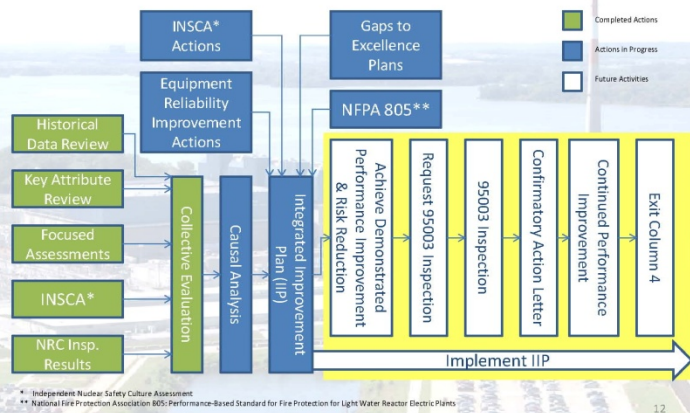
- Improved quality of problem evaluations
- Improved timeliness of fixing problems

Accelerated installation of modifications to reduce fire risk

11



Integrated Improvement Plan



* Independent Nuclear Safety Culture Assessment

** National Fire Protection Association 805: Performance-Based Standard for Fire Protection for Light Water Reactor Electric Plants

12

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Path Forward

- Finalize Integrated Improvement Plan
 - Causal Analysis
 - Action Plans
 - Performance Criteria
- Execute the Plan



13

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Criteria for NRC Inspection Readiness

- No risk significant event or condition
 - Resulting from a cause that would alter the basis of the IIP
 - Resulting from the IIP corrective actions being ineffective
- Designated corrective actions have been completed
- Longer-term corrective actions are on schedule
- Performance criteria/metrics indicate adequate performance improvement and sustainability
- Assessments by the governance and oversight organizations support readiness

14

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Long-Term Success Criteria

- Browns Ferry in the Licensee Response Column of the NRC’s Reactor Oversight Process Action Matrix
- All Integrated Improvement Plan Actions Complete
- TVA Using Standard Fleet Programs and Procedures



15

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Corporate Governance & Oversight

- Strong Corporate Governance and Oversight is Key to the Sustainability of Improved Performance
 - Implemented through TVA’s Nuclear Operating Model
 - Dedicated Corporate Officer and organization to provide project governance and oversight
 - Expanded QA staff to oversee project



16

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Corporate Governance & Oversight

- Corporate Oversight of BFN Enhanced by
 - 95003 Executive Oversight Board
 - Nuclear Safety Review Board
 - Nuclear Oversight Committee of the Board
- TVA Committing the Resources Necessary to Achieve BFN Improvement Goals



17

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Closing Remarks

- TVA understands the fundamental issues challenging the station.
- TVA is finalizing the Integrated Improvement Plan and committing the resources necessary to achieve performance goals.
- TVA is beginning to see results.
- TVA will request the 95003 inspection when performance improvement has been demonstrated and continued improvement is sustainable.

18