

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

December 18, 2012

Mr. Joseph W. Shea Vice President, Nuclear Licensing Tennessee Valley Authority 1101 Market Street, LP 3D-C Chattanooga, TN 37402-2801

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

Dear Mr. Shea:

This refers to the meeting conducted near the Browns Ferry Nuclear Plant on December 5, 2012. The purpose of this meeting was to conduct a regulatory performance meeting following the completion of three supplemental inspections for one White inspection finding and two White performance indicators. Additionally, there was discussion concerning 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.

During the regulatory performance meeting, the NRC informed TVA that the NRC has successfully completed supplemental inspections for one White inspection finding and two White performance indicators. The NRC informed TVA that both performance indicators are no longer assessed as Action Matrix inputs because they have returned to Green significance level. However, the White finding will continue to be assessed as an action matrix input until the end of the first quarter of 2013 and therefore the Action Matrix assessment for the Browns Ferry Units will remain unchanged at this time.

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).

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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 Nos.: 50-259, 50-260, 50-296 License Nos.: DPR-33, DPR-52, DPR-6

Enclosures:

- 1. List of Attendees
- 2. Licensee Handouts
- 3. NRC Handouts

cc w/encls: (See page 3)

2

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X PUBLICLY AVAILABLE

□ NON-PUBLICLY AVAILABLE

SENSITIVE	Х	NON-SENSITIVE

ADAMS:
Yes ACCESSION NUMBER:

X SUNSI REVIEW COMPLETE

OFFICE	RII:DRP	R	RII:DRP										
SIGNATURE	EFG /RA for/	E	FG /RA/										
NAME	CKontz	E	Guthrie										
DATE	12/18/2012		12/18/2012										
E-MAIL COPY?	YES N	10	YES NO) YE	S NO	YES	NO	YES	NO	YES	NO	YES	NO

OFFICIAL RECORD COPY DOCUMENT NAME: G:\DRPII\RPB6\BROWNS FERRY\MEETINGS\MEETING SUMMARY DECEMBER 2012 RPM 95003 STATUS.DOCX

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, 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. Vigluicci 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

Letter to J. Shea from Eugene F. Guthrie dated December 18, 2012

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

Distribution w/encls: C. Evans, RII L. Douglas, RII OE Mail RIDSNRRDIRS PUBLIC RidsNrrPMBrownsFerry Resource

NRC ATTENDEES

V. McCree, Regional Administrator, Region II

- B. Jones, Deputy Director, Division of Reactor Projects, RII
- E. Guthrie, Chief, Special Project, Browns Ferry, DRP, RII
- D. Dumbacher, Senior Resident Inspector, Browns Ferry, DRP, RII
- L. Presley, Resident Inspector, Browns Ferry, RII
- J. Ledford, Public Affairs Specialist, RII

BROWNS FERRY PUBLIC MEETING

Tanner, AL

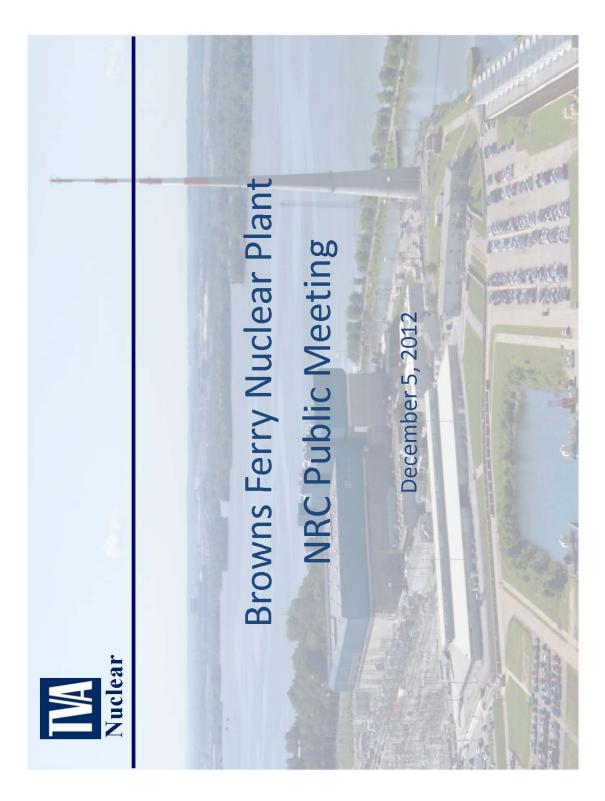
December 5, 2012

Attendees

Name (Print)	
GERARD J DOYLE	D
JAMES EMENS	BI
GARRY MORGAN	B
Roc She	_
J.R. Farker	N
Ben Montgomery	T
Sean Call	_
Charry S. Polloch	_
Ateniant the -in	_
Jackie Posey	<
TENYA Appleyard	· .
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Enclosure 1





Opening Remarks

Keith Polson

Browns Ferry Site Vice President





Integrated Improvement Plan Nuclear

- Integrated Improvement Plan developed to:
- ➤ Address the Red Finding, the Fundamental Problems, and the Independent Nuclear Safety Culture assessment results;
- Reduce risk;
- Improve equipment reliability; and
- Ensure sustained performance improvement.
- Status of Integrated Improvement Plan implementation
- Approximately 93 percent of Designated Actions complete
- ➤ Approximately 72 percent of all actions complete





Results Achieved

Unit Operation

- Three unit consecutive day run record 139 days
- Three unit cumulative record run 949 days
- Unit consecutive day run record 545 days and counting
- Safety •
- Over 7 million man-hours without a lost time accident and counting

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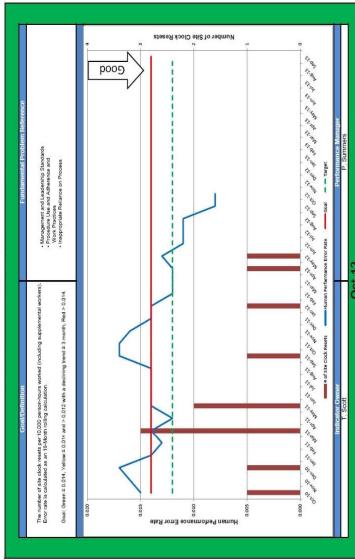




Results Achieved

Nuclear

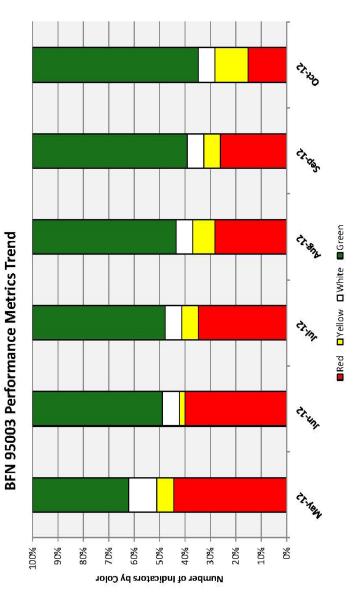
Site Human Performance Error Rate



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GRAPH 2

Results Achieved



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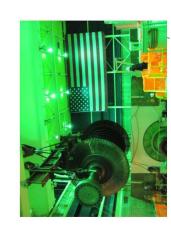
Enclosure 2

Unit 1 Refueling Outage Highlights Ň

Nuclear

- Refurbished the high pressure coolant injection system
- Replaced two residual heat removal and two core spray pump motors
- Replaced the main generator circuit breakers
- Upgraded the automatic voltage regulator for the main •
 - generator







95003 Inspection Readiness

Nuclear

- Expect to formally request the 95003 Supplemental Inspection in January
- conducted following the Unit 2 refueling outage in the Anticipate the onsite portion of the inspection being spring
- Remaining Activities
- Satisfy remaining inspection readiness criteria
- Complete the readiness assessment



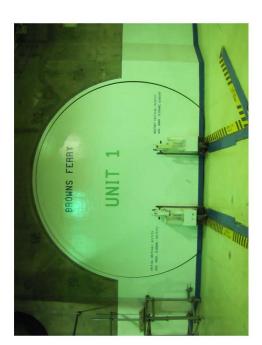


Closing Remarks

Preston Swafford

Chief Nuclear Officer, TVA







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Introduction



United States Nuclear Regulatory Commission Protecting People and the Environment

Agenda

- Regulatory Status And Information
- Tennessee Valley Authority
- **Public Questions** 3
- Closing Remarks

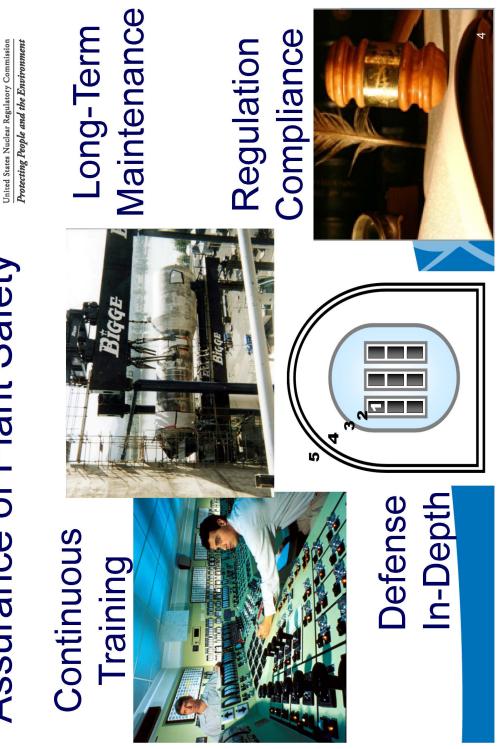
Purpose



Protecting People and the Environment

- Present Browns Ferry performance issues, underlying causes, and planned licensee actions for each safety-significant Action Matrix input.
 - Update status of preparations for 95003 inspection at Browns Ferry.

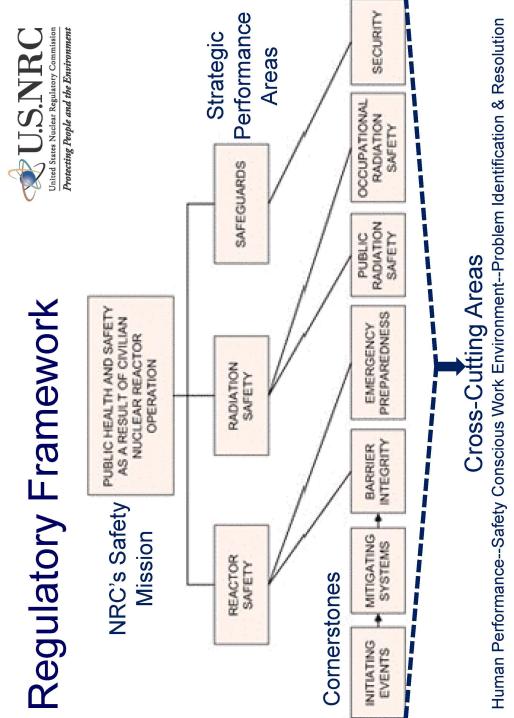




Assurance of Plant Safety

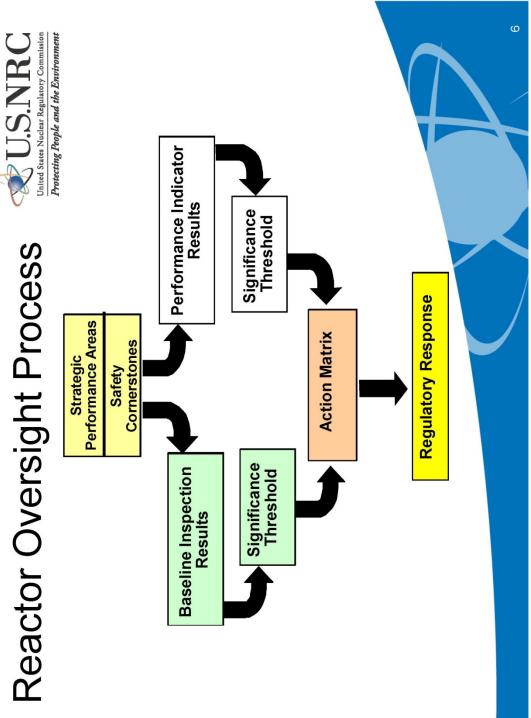
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Enclosure 3



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Enclosure 3



Reactor Oversight Process

Performance Indicators



Protecting People and the Environment

- I7 Performance Indicators (PI)
- Pl's for each cornerstone
- Licensee submits data to NRC quarterly
- Inspection program verifies accuracy
- Data available on NRC website

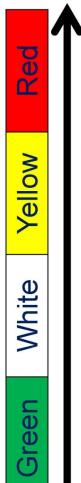


Significance Threshold



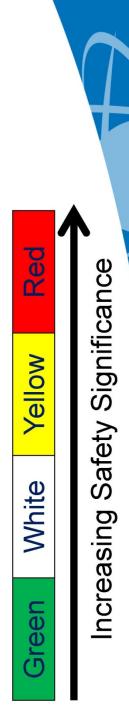
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Performance Indicators



Increasing Safety Significance

Inspection Findings



Enclosure 3

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

Increasing

- Safety Significance
- Inspection
- Management Involvement
- Regulatory Action

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Action Matrix Response



- "Supplemental Inspection for One or Two White Inputs in a Strategic Performance The NRC has completed three separate supplemental inspections per IP 95001, Area" for the following:
 - White Finding (Units 1, 2, 3)
- White PI for Unplanned Scrams (U3)
- White PI for High Pressure Injection System (U1)



- Inspection Objectives
- Provide assurance that :
- root and contributing causes of risk-significant issues were understood; Ī
- extent of condition and extent of cause of risk-significant issues were identified; I
- address the root and contributing causes and significant issues were or will be sufficient to licensee's corrective actions for riskto preclude repetition. I

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Protecting People and the Environment

- 95001 Inspection for White Finding
- Failure to properly implement the requirements of the Plant Modifications and Engineering Change Control Procedure which resulted in inadequate Procedures, 0-SSI-25-1,-2,-3, and -26. training of Safe Shutdown Instruction 5
- Completed October 11, 2012
- Documented in NRC Inspection Report 05000259,260,296/2012014





- 95001 Inspection for White PI for Unplanned Scrams on Unit 3
- White threshold of more than three scrams in four Unplanned scrams per 7,000 critical hours and significance based on crossing the Green-towas characterized as having White safety quarters.





95001 Inspection for White PI for Unplanned

- Scrams on Unit 3 (cont)
- the Green-to-White threshold of more than three Eour individual scrams contributed to crossing scrams in four quarters.
- Completed November 16, 2012
- Documented in NRC Inspection Report 05000259/2012016





- 95001 Inspection for White PI for High Pressure Injection System on Unit 1
- High unreliability and unavailability of the HPCI system
- admission valve leakage along with four functional failures within the past three years High unavailability due to repetitive steam
- Completed October 17, 2012
- Documented in NRC Inspection Report 05000296/2012015



- Conclusions:
- Root and contributing causes were understood;
- evaluations were sufficiently comprehensive; Extent of condition and extent of cause
- address the root and contributing causes and to Licensee corrective actions were appropriate to preclude repetition 3





- White Finding is closed
- Action Matrix input until the end of the first quarter 2013.
- Both PI's returned to Green significance level
- No longer Action Matrix inputs.
- No change in the assessment of Action Matrix.



NRC Assessment Summary



- manner that preserved the public health and TVA operated the plants safely and in a safety and protected the environment.
 - Unit 1 is in the Multiple/Repetitive Degraded Cornerstone Column of the NRC's ROP Action Matrix.
- Units 2 & 3 are in the Regulatory Response Column of the NRC's ROP Action Matrix.

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Action Matrix Response



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- NRC is conducting baseline inspections for all 3 Browns Ferry Units.
- NRC will perform a supplemental inspection per IP 95003, "Supplemental Inspection for Repetitive Degraded Cornerstones, Multiple Inputs, or One Red Input" when informed of In addition to the baseline inspections, the Degraded Cornerstones, Multiple Yellow the readiness by TVA.

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Action Matrix Status



	Q4 2011	Q1 2012	Q2 2012	Q3 2012
Unit 1	Multip Lo	Multiple Repetitive/ Degraded Cornerstone Low Pressure Coolant Injection Valve Failure	egraded Corne l Injection Valve Failu	rstone re
Unit 2	Licensee	Licensee Response	Regulatory Response	Response
Unit 3	Licensee	Licensee Response	Regulatory Response	Response

Inspections for Unit 1 Increased Oversight



Protecting People and the Environment

- 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 05000259/2011012
- Part 3 Formal 95003 Completion
 - Completion date to be scheduled
- Licensee preparations are in progress.

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TVA Response and Remarks



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



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