



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

July 20, 2010

Mr. R. M. Krich
Vice President, Nuclear Licensing
Tennessee Valley Authority
3R Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

SUBJECT: PUBLIC MEETING SUMMARY – BROWNS FERRY NUCLEAR STATION -
DOCKET NOS. 50-259, 50-260 AND 50-296

Dear Mr. Krich:

This refers to the Category 1 public meeting which was held on June 3, 2010, in Athens, AL. The purpose of this meeting was to discuss the NRC's Reactor Oversight Process (ROP) and the NRC's annual assessment of plant safety performance for the period of January 1, 2009 - December 31, 2009. The major topics addressed were the NRC's assessment program and the results of the assessment. A listing of meeting attendees and information presented during the meeting are enclosed.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room (PDR) 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
Reactor Projects Branch 6
Division of Reactor Projects

Docket Nos.: 50-259, 50-260 AND 50-296
License Nos.: DPR-33, DPR-52, DPR-68

Enclosures: 1. List of Attendees
2. Powerpoint Presentation

cc w/encls: (See page 2)

July 19, 2010

Mr. R. M. Krich
Vice President, Nuclear Licensing
Tennessee Valley Authority
3R Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

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

OFFICE	RII:DRP	RII:DRP					
SIGNATURE	CRK /RA/	EFG /RA/					
NAME	CKontz	EGuthrie					
DATE	07/20/2010	07/20/2010					
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY DOCUMENT NAME: G:\DRP\RPB6\BROWNS FERRY\MEETINGS\2009 EOC MEETING
SUMMARY.DOC

TVA

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TVA

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Letter to R. M. Krich from Eugene Guthrie dated July 20, 2010

SUBJECT: PUBLIC MEETING SUMMARY – BROWNS FERRY NUCLEAR STATION -
DOCKET NOS. 50-259, 50-260 AND 50-296

Distribution w/encl:

C. Evans, RII

L. Slack, RII

OE Mail

RIDSNRRDIRS

PUBLIC

RidsNrrPMBrownsFerry Resource



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

BROWNS FERRY ANNUAL ASSESSMENT MEETING
June 3, 2010

NAME	TITLE
McKenzie Thomas	Senior Reactor Inspector
Tonya Appleyard	AL Rad Control
Bill Thomason	Planner Morgan Co EMTA
Stan Day	ACTING LICENSING MGR
Jay Miller	Ops Manager
Michael Button	Maint. Mgr.
Thierry Ross	USNRC - Senior Resident Inspector
Chris Buckner	Quality Assurance
Walter Lee	Emergency Preparedness MGR
DAVID LOCHBURN	Director, Nuclear Safety Project UCS
STEVE BOND	ENGINEERING DIRECTOR
KELLY KORTH	RESIDENT INSPECTOR
Kirk Polson	Site Vice President
JAMES EMENS	SITE LIC SUPERVISOR
Stewart Bailey	Senior Project Manager
Shelagh Killen	
Karen Middleton	Althen News Council
Gerard Wharf	USNRC - Div of Rx Projects - Region II

Browns Ferry Nuclear Station Annual Assessment Meeting

Reactor Oversight Program - 2009

Nuclear Regulatory Commission - Region II

Athens, AL

June 3, 2010



Purpose of Today's Meeting

- **A public forum for discussion of the licensee's performance in 2009**
- **Address the performance issues identified in annual assessment letters**

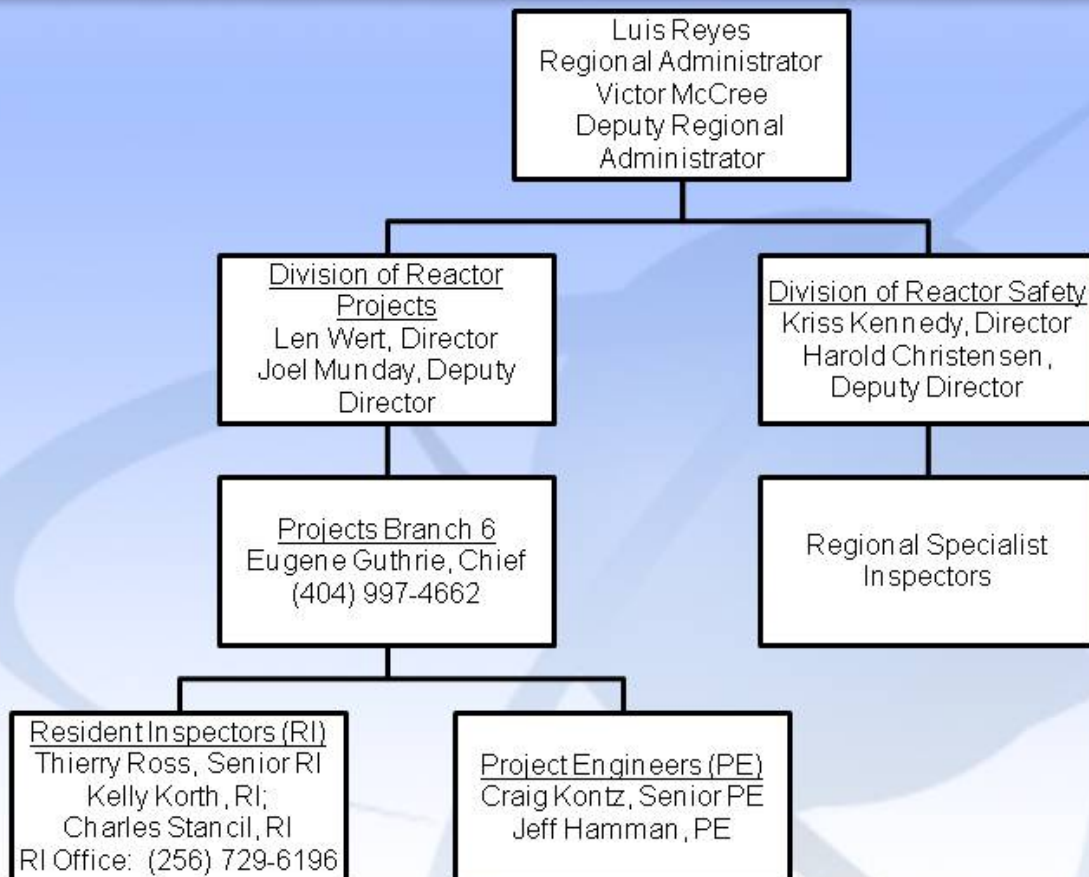


Agenda

- Introduction
- Overview of NRC Mission
- Review of Reactor Oversight Process
- National Summary of Plant Performance
- Discussion of Plant Performance Results
- NRC Closing Remarks
- NRC available to address public questions



Region II Organization





Some Nuclear Facts



- 104 nuclear power plants supply about 20 percent of the electricity in the U.S.



- Nuclear materials are used in medicine for diagnosis and cancer treatment.



- Nuclear materials are widely used in industry, such as in density gauges, flow measurement devices, radiography devices, and irradiators.



Our Mission



- To license and regulate the nation's civilian use of byproduct, source, and special nuclear materials to ensure adequate protection of public health and safety, promote the common defense and security, and protect the environment.



Assurance of Plant Safety

- **Require “layers of protection”.**
- **Require long-term maintenance of equipment**
- **Require continual training of operators**
- **Verify compliance with regulations**



What NRC Regulates

- Nuclear reactors - commercial power reactors, research and test reactors, new reactor designs
- Nuclear materials - nuclear reactor fuel, radioactive materials for medical, industrial, and academic use
- Nuclear waste – transportation, storage and disposal of nuclear material and waste, decommissioning of nuclear facilities
- Nuclear security – physical security of nuclear facilities and materials from sabotage or attacks

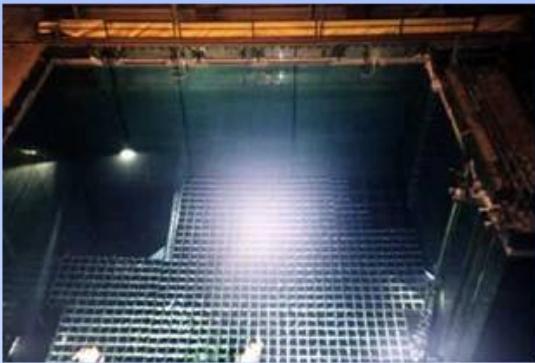


How NRC Regulates

- **Establish rules and regulations**
- **Issue licenses**
- **Provide oversight through inspection, enforcement, and evaluation of operational experience**
- **Conduct research to provide support for regulatory decisions**
- **Respond to events and emergencies**



What We Do – Nuclear Waste



NRC regulates:

- Storage of spent reactor fuel in fuel pools or dry storage casks
- National spent fuel storage sites and reprocessing facilities



What We Do – Nuclear Security



NRC Requires:

- Well-armed and well-trained security forces,
- Surveillance and perimeter patrols,
- State-of-the-art site access equipment and controls,
- Physical barriers and detection zones, and
- Intrusion detection systems and alarm stations.



What NRC Doesn't Do

- **Regulate nuclear weapons, military reactors, or space vehicle reactors**
- **Own or operate nuclear power plants**
- **Regulate some radioactive materials, such as X-rays and naturally occurring radon**

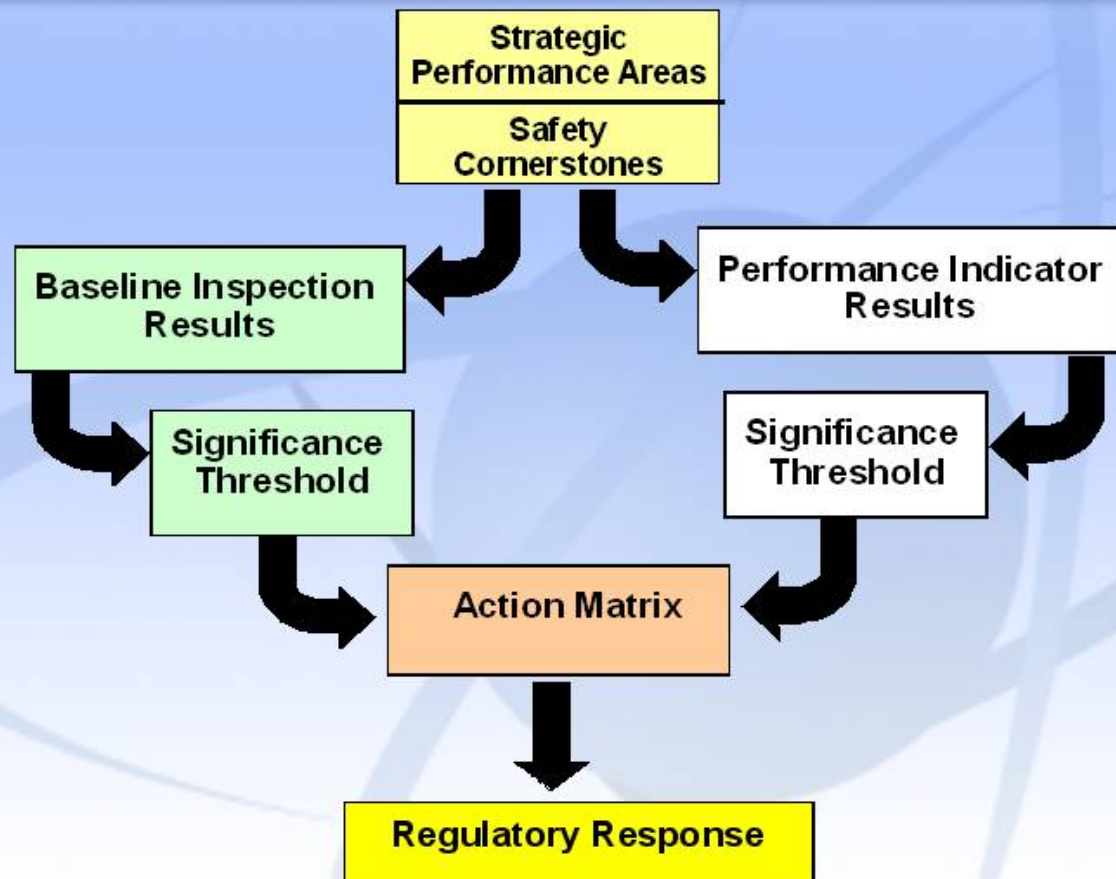


NRC Performance Goals

- **Safety:** Ensure adequate protection of public health and safety and protect the environment.
- **Security:** Ensure adequate protection in the secure use and management of radioactive materials.



Reactor Oversight Process





Examples of Baseline Inspections

- **Equipment Alignment** ~80 hrs/yr
- **Triennial Fire Protection** ~250 hrs (every 3 yrs)
- **Operator Response** ~125 hrs/yr
- **Emergency Preparedness** ~80 hrs/yr
- **Rad Release Controls** ~110 hrs (every 2 yrs)
- **Worker Radiation Protection** ~95 hrs/yr
- **Corrective Action Program** ~250 hrs (every 2 yrs)
- **Corrective Action Case Reviews** ~60 hrs/yr



Significance Threshold

Performance Indicators

- Green:** Only Baseline Inspection
- White:** Increases NRC oversight
- Yellow:** Increases NRC oversight
- Red:** Increases NRC oversight

Inspection Findings

- Green:** Very low safety issue
- White:** Low to moderate safety issue
- Yellow:** Substantial safety issue
- Red:** High safety issue



Action Matrix Concept

Licensee Response	Regulatory Response	Degraded Cornerstone	Multiple/Rep. Degraded Cornerstone	Unacceptable Performance
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Increasing Safety Significance

Increasing NRC Inspection Efforts

Increasing NRC/Licensee Management Involvement

Increasing Regulatory Actions



National Summary of Plant Performance

As of 12/31/2009*

Licensee Response	79
Regulatory Response	24
Degraded Cornerstone	1
Multiple/Repetitive Deg. Cornerstone	0
Unacceptable	0
Total	104

* Does not account for plants which received notice of action matrix changes after 12/31/2009



National Summary

Totals for 2009*

- Performance Indicator Results

– Green	7039
– White	18
– Yellow	0
– Red	0

- Total Inspection Findings

– Green	879
– White	7
– Yellow	0
– Red	0

* Does not account final significance determinations made after 12/31/2009



Browns Ferry Inspection Activities

January 1 - December 31, 2009

Over 9500 hours of inspection-related activities

- **In-service Inspection**
- **Resident Inspection**
- **Radiation Protection**
- **Emergency Preparedness**
- **Problem Identification & Resolution Inspection**
- **Security**
- **Component Design Basis Inspection**
- **Focused Baseline Fire Protection Inspection**
- **Triennial Fire Protection Inspection**



Operating Assessment

	Q1 2009	Q2 2009	Q3 2009	Q4 2009
Unit 1	Licensee Response	Licensee Response	Licensee Response	Degraded Cornerstone
				Yellow Violation of 10 CFR 50 Appendix R III.G.1 & III.G.2
Unit 2	Licensee Response	Licensee Response	Licensee Response	Degraded Cornerstone
				Yellow Violation of 10 CFR 50 Appendix R III.G.1 & III.G.2
Unit 3	Licensee Response	Licensee Response	Licensee Response	Degraded Cornerstone
				Yellow Violation of 10 CFR 50 Appendix R III.G.1 & III.G.2



2009 Assessment Results - Units 1,2 & 3

- **1st, 2nd & 3rd Quarters within Licensee Response Column**
 - All inspection findings were classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green).

- **4th Quarter within Degraded Cornerstone Column**
 - One Yellow Violation in the Mitigating Systems Cornerstone
 - One White Finding in the Mitigating Systems Cornerstone
 - Follow-up inspection per IP 95002 will be conducted after the NRC is informed of TVA's readiness.



Significant Cross-Cutting Issues (SCCI)

- **SCCI in the area of Problem Identification and Resolution (2007)**
 - From Annual Assessment 2007, with 4 findings having contributing causes related to the aspect of appropriate & timely corrective actions.
 - In July 2009, the NRC completed an additional biennial PI&R team inspection. The PI&R inspection determined that the corrective actions to address the SCCI were effectively implemented with only a few self-identified exceptions.



Significant Cross-Cutting Issues (SCCI)

- **SCCI in the area of Problem Identification and Resolution (2009)**
 - From Annual Assessment 2009, with 4 findings having contributing causes related to thorough evaluation of identified problems.
 - The staff will monitor and follow-up on this SCCI via implementation of the baseline inspection program. The staff will primarily accomplish this in accordance with IP 71152, Identification And Resolution of Problems.



2009 Crosscutting Issues

- **Cross-cutting theme in the area of Safety Conscious Work Environment (SCWE)**
 - Based on Confirmatory Order for Office of Investigation report numbers 2-2006-025 and 2-2009-003 involving two instances of discrimination.
 - The NRC will conduct follow up inspections in accordance with IP 92702, Follow up On Traditional Enforcement Actions Including Violations, Deviations, Confirmatory Action Letters, Confirmatory Orders, And Alternative Dispute Resolution Confirmatory Orders as necessary.



Browns Ferry Annual Assessment Summary

- TVA operated Browns Ferry in a manner that preserved public health and safety with moderate degradation in safety performance.
- All cornerstone objectives were met
- For the remainder of 2010:
 - NRC plans baseline inspections
 - Team Inspections
 - Problem Identification & Resolution
 - Supplemental inspections
 - Inspection of one degraded cornerstone or any three white inputs in a strategic performance area (IP 95002)
 - Follow up on traditional enforcement actions including violations, deviations, confirmatory action letters, confirmatory orders, and alternative dispute resolution confirmatory orders (IP 92702)



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.



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



NRC Representatives

- Leonard Wert, Division Director
- Eugene Guthrie, Branch Chief
- Thierry Ross, Senior Resident Inspector
- Kelly Korth, Resident Inspector
- Charles Stancil, Resident Inspector
- Roger Hannah, Senior Public Affairs Officer
– (404) 997-4417



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)