



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

March 4, 2015

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

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR BROWNS FERRY NUCLEAR PLANT  
UNITS 1, 2 AND 3 – NRC INSPECTION REPORTS 05000259/2014001,  
05000260/2014001 AND 05000296/2014001**

Dear Mr. Shea:

On February 10, 2015, the NRC completed its end-of-cycle performance review of the Browns Ferry Nuclear Plant, Units 1, 2 and 3. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2014, through December 31, 2014. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

The NRC determined the performance at Browns Ferry Units 1, 2 and 3 during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

In our mid-cycle assessment letter dated September 2, 2014, (ADAMS Accession No. ML14245A557) we informed you that on July 1, 2014, Browns Ferry Unit 1 transitioned from the Multiple/Repetitive Degraded Cornerstone Column to the Regulatory Response Column, Unit 2 transitioned from the Degraded Cornerstone Column to the Regulatory Response Column, and Unit 3 remained in the Regulatory Response Column of the Action Matrix. On September 5, 2014, the NRC completed a supplemental inspection using Inspection Procedure 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area," for Units 1, 2, and 3. Based on the results of this inspection, as documented in inspection report 05000259/2014012; 05000260/2014012; 05000296/2014012 and assessment follow-up letter (ADAMS Accession No. ML14289A458), the NRC assessed Browns Ferry Units 1, 2, and 3 in the Licensee Response Column beginning October 1, 2014.

Since the last performance assessment, all performance indicators have remained within the nominal, expected range (i.e., green) based on your fourth quarter 2014 performance indicator data submission.

The enclosed inspection plan lists the inspections scheduled through June 30, 2016. Routine inspections performed by resident inspectors are not included in the inspection plan. The

inspections listed during the last nine months of the inspection plan are tentative and may be revised at the mid-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence.

In addition to the ROP baseline inspections at your facility, we also plan on conducting infrequently performed inspections which include: Inspection Procedure (IP) 43004, "Inspection of Commercial-Grade Dedication Programs," IP 71003, "Post-Approval Site Inspection for License Renewal" (Phase 1), and an initial operator license examination.

In accordance with 10 CFR 2.390 of the NRC's "Agency Rules of Practice and Procedure," a copy of this letter will be 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).

Please contact Michael King at (404) 997-4511 with any questions you may have regarding this letter.

Sincerely,

**/RA/**

Victor M. McCree  
Regional Administrator

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

Enclosure: Browns Ferry Inspection/Activity Plan  
(03/01/2015 – 06/30/2016)

cc Distribution via ListServ

**Browns Ferry**  
**Inspection / Activity Plan**  
**03/01/2015 - 06/30/2016**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>ISI - UNIT 2 IN-SERVICE INSPECTION</b>		<b>1</b>
2	03/23/2015	03/27/2015	IP 7111108G	Inservice Inspection Activities - BWR	
			<b>RP - RP OCCUPATIONAL BASELINE WEEK 1</b>		<b>3</b>
1, 2, 3	03/23/2015	03/27/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2, 3	03/23/2015	03/27/2015	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2, 3	03/23/2015	03/27/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2, 3	03/23/2015	03/27/2015	IP 71124.04	Occupational Dose Assessment	
1, 2, 3	03/23/2015	03/27/2015	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2, 3	03/23/2015	03/27/2015	IP 71151	Performance Indicator Verification	
			<b>RP - RP OCCUPATIONAL BASELINE WEEK 2</b>		<b>3</b>
1, 2, 3	04/06/2015	04/10/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2, 3	04/06/2015	04/10/2015	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2, 3	04/06/2015	04/10/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2, 3	04/06/2015	04/10/2015	IP 71124.04	Occupational Dose Assessment	
1, 2, 3	04/06/2015	04/10/2015	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2, 3	04/06/2015	04/10/2015	IP 71151	Performance Indicator Verification	
			<b>OL EXAM - INITIAL LICENSE EXAM PREP</b>		<b>3</b>
1	10/19/2015	10/23/2015	V23463	BROWNS FERRY NOVEMBER 2015 INITIAL EXAM AT POWER FACILITIES	
			<b>CDBI - COMPONENT DESIGN BASES INSPECTION</b>		<b>7</b>
1, 2, 3	10/26/2015	10/30/2015	IP 7111121	Component Design Bases Inspection	
1, 2, 3	11/16/2015	11/20/2015	IP 7111121	Component Design Bases Inspection	
1, 2, 3	11/30/2015	12/04/2015	IP 7111121	Component Design Bases Inspection	
1, 2, 3	12/14/2015	12/18/2015	IP 7111121	Component Design Bases Inspection	
			<b>EP - EP EXERCISE</b>		<b>6</b>
1, 2, 3	11/02/2015	11/06/2015	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2, 3	11/02/2015	11/06/2015	IP 7111407	Exercise Evaluation - Hostile Action (HA) Event	
1, 2, 3	11/02/2015	11/06/2015	IP 71151	Performance Indicator Verification	
			<b>OL EXAM - INITIAL LICENSE EXAM</b>		<b>3</b>
1	11/16/2015	12/04/2015	V23463	BROWNS FERRY NOVEMBER 2015 INITIAL EXAM AT POWER FACILITIES	
			<b>PI&amp;R - PROBLEM IDENTIFICATION AND RESOLUTION</b>		<b>4</b>
1, 2, 3	02/08/2016	02/12/2016	IP 71152B	Problem Identification and Resolution	
1, 2, 3	02/22/2016	02/26/2016	IP 71152B	Problem Identification and Resolution	

This report does not include INPO and OUTAGE activities.  
This report shows only on-site and announced inspection procedures.

**Browns Ferry**  
**Inspection / Activity Plan**  
**03/01/2015 - 06/30/2016**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>RP - RAD HAZARDS ANALYSIS AND TRANSPORTATION</b>		<b>2</b>
1, 2, 3	02/29/2016	03/04/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2, 3	02/29/2016	03/04/2016	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			<b>ISI - UNIT 3 IN-SERVICE INSPECTION</b>		<b>1</b>
3	03/07/2016	03/11/2016	IP 7111108G	Inservice Inspection Activities - BWR	
			<b>LR - UNIT 3 POST APPROVAL LR PHASE 1</b>		<b>2</b>
3	03/07/2016	03/11/2016	IP 71003	Post-Approval Site Inspection for License Renewal	
			<b>TFPI - TRIENNIEL FIRE PROTECTION INSPECTION</b>		<b>4</b>
1, 2, 3	05/02/2016	05/06/2016	IP 7111105T	Fire Protection [Triennial]	
1, 2, 3	05/16/2016	05/20/2016	IP 7111105T	Fire Protection [Triennial]	
			<b>EP - EP PROGRAM INSPECTION</b>		<b>2</b>
1, 2, 3	06/06/2016	06/10/2016	IP 7111401	Exercise Evaluation	
1, 2, 3	06/06/2016	06/10/2016	IP 7111402	Alert and Notification System Testing	
1, 2, 3	06/06/2016	06/10/2016	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2, 3	06/06/2016	06/10/2016	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2, 3	06/06/2016	06/10/2016	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
			<b>RP - RP PUBLIC RAD SAFETY BASELINE</b>		<b>2</b>
1, 2, 3	06/13/2016	06/17/2016	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2, 3	06/13/2016	06/17/2016	IP 71124.07	Radiological Environmental Monitoring Program	
1, 2, 3	06/13/2016	06/17/2016	IP 71151	Performance Indicator Verification	

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This report shows only on-site and announced inspection procedures.