



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

August 31, 2016

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

**SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2 AND 3, NRC INSPECTION REPORTS 05000259/2016005,
05000260/2016005 AND 05000296/2016005**

Dear Mr. Shea:

On August 10, 2016, the NRC completed its mid-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 July 1, 2015, through June 30, 2016. 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 that overall, Browns Ferry Units 1, 2, and 3 operated in a manner that preserved public health and safety and met all cornerstone objectives. 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.

The enclosed inspection plan lists the inspections scheduled through June 30, 2018. 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 end-of-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, and Operator Licensing Examinations.

In response to the accident at Fukushima, the Commission issued Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events," and Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation." The NRC conducted audits of licensee efforts towards compliance with these Orders, and the information gathered will aid staff in development of the ultimate Safety Evaluation for the site. After the NRC staff receives the Final Compliance letter for the site, the Safety Evaluation will be issued. Then, the NRC staff will confirm through inspections the full implementation of the orders mentioned above by performing Temporary Instruction 191, "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans."

In Staff Requirements Memorandum – SECY 16-0009, "Recommendations Resulting from the Integrated Prioritization and Re-Baselining of Agency Activities," the Commission approved the NRC staff recommendation to discontinue the formal mid-cycle assessment process beginning in calendar year 2017. This will be the final mid-cycle assessment letter. The staff will continue to conduct quarterly assessment meetings and communicate changes in the assessment of licensee performance in accordance with the guidance in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program."

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 me at (404) 997-4415 with any questions you may have regarding this letter.

Sincerely,

/RA/

Alan Blamey, Chief
Reactor Projects Branch 6
Division of Reactor Projects

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

Enclosure: Browns Ferry Inspection/Activity Plan
(09/01/2016 – 06/30/2018)

cc: Distribution via ListServ

In response to the accident at Fukushima, the Commission issued Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events," and Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation." The NRC conducted audits of licensee efforts towards compliance with these Orders, and the information gathered will aid staff in development of the ultimate Safety Evaluation for the site. After the NRC staff receives the Final Compliance letter for the site, the Safety Evaluation will be issued. Then, the NRC staff will confirm through inspections the full implementation of the orders mentioned above by performing Temporary Instruction 191, "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans."

In Staff Requirements Memorandum – SECY 16-0009, "Recommendations Resulting from the Integrated Prioritization and Re-Baselining of Agency Activities," the Commission approved the NRC staff recommendation to discontinue the formal mid-cycle assessment process beginning in calendar year 2017. This will be the final mid-cycle assessment letter. The staff will continue to conduct quarterly assessment meetings and communicate changes in the assessment of licensee performance in accordance with the guidance in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program."

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).

ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at (404) 997-4415 with any questions you may have regarding this letter.

Sincerely,

/RA/

Alan Blamey, Chief
 Reactor Projects Branch 6
 Division of Reactor Projects

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

Enclosure: Browns Ferry Inspection/Activity Plan
 (09/01/2016 – 06/30/2018)

cc: Distribution via ListServ

PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE NON-SENSITIVE
 ADAMS: Yes ACCESSION NUMBER: ML16244A692 SUNSI REVIEW COMPLETE FORM 665 ATTACHED

OFFICE	RII:DRP	RII:DRP					
SIGNATURE	CRK1	AJB3					
NAME	C. Kontz	A. Blamey					
DATE	8/7/2016	8/31/2016	8/ /2016	8/ /2016	8/ /2016	8/ /2016	8/ /2016
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

Browns Ferry
Inspection / Activity Plan
09/01/2016 - 06/30/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			OL RQ - REQUAL INSP		2
1, 2, 3	09/12/2016	09/16/2016	IP 7111111B	Licensed Operator Requalification Program	
			ISI - UNIT 1 IN-SERVICE INSPECTION		1
1	10/10/2016	10/14/2016	IP 7111108G	Inservice Inspection Activities - BWR	
			ISI - UNIT 2 IN-SERVICE INSPECTION		1
2	03/13/2017	03/17/2017	IP 7111108G	Inservice Inspection Activities - BWR	
			OL EXAM - INITIAL LICENSE EXAM PREP		3
1	03/13/2017	03/17/2017	V23490	BROWNS FERRY/APRIL 2017 INITIAL EXAM AT POWER FACILITIES	
			RP - RP OCCUPATIONAL INSPECTION WEEK 1		3
1, 2, 3	03/13/2017	03/17/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2, 3	03/13/2017	03/17/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2, 3	03/13/2017	03/17/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2, 3	03/13/2017	03/17/2017	IP 71124.04	Occupational Dose Assessment	
1, 2, 3	03/13/2017	03/17/2017	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2, 3	03/13/2017	03/17/2017	IP 71151	Performance Indicator Verification	
			RP - RP OCCUPATIONAL INSPECTION WEEK 2		2
1, 2, 3	03/27/2017	03/31/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2, 3	03/27/2017	03/31/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2, 3	03/27/2017	03/31/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2, 3	03/27/2017	03/31/2017	IP 71124.04	Occupational Dose Assessment	
1, 2, 3	03/27/2017	03/31/2017	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2, 3	03/27/2017	03/31/2017	IP 71151	Performance Indicator Verification	
			OL EXAM - INITIAL LICENSE EXAM		3
1	04/10/2017	04/21/2017	V23490	BROWNS FERRY/APRIL 2017 INITIAL EXAM AT POWER FACILITIES	
			EP - EP EXERCISE		6
1, 2, 3	06/26/2017	06/30/2017	IP 7111401	Exercise Evaluation	
1, 2, 3	06/26/2017	06/30/2017	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2, 3	06/26/2017	06/30/2017	IP 7111408	Exercise Evaluation – Scenario Review	
1, 2, 3	06/26/2017	06/30/2017	IP 71151	Performance Indicator Verification	
			HS - TRIENNIAL HEAT SINK PERFORMANCE		1
1, 2, 3	07/24/2017	07/28/2017	IP 7111107T	Heat Sink Performance	
			MODS - PLANT MODIFICATIONS INSPECTION		3
1, 2, 3	12/04/2017	12/08/2017	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	

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

Enclosure

Browns Ferry
Inspection / Activity Plan
09/01/2016 - 06/30/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			MODS - PLANT MODIFICATIONS INSPECTION		3
1, 2, 3	12/18/2017	12/22/2017	IP 711117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			TEST - TEST		1
1, 2, 3	01/10/2018	03/15/2018	IP 7111105T	Fire Protection [Triennial]	
			PI&R - PROBLEM IDENTIFICATION AND RESOLUTION		5
1, 2, 3	01/22/2018	01/26/2018	IP 71152B	Problem Identification and Resolution	
1, 2, 3	02/05/2018	02/09/2018	IP 71152B	Problem Identification and Resolution	
			RP - RAD HAZARDS AND TRANSPORTATION		2
1, 2, 3	02/26/2018	03/02/2018	IP 7111101	Adverse Weather Protection	
1, 2, 3	02/26/2018	03/02/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
			ISI - UNIT 3 IN-SERVICE INSPECTION		1
3	03/19/2018	03/23/2018	IP 7111108G	Inservice Inspection Activities - BWR	
			CDBI - COMPONENT DESIGN BASES INSPECTION		6
1, 2	04/02/2018	04/06/2018	IP 7111121	Component Design Bases Inspection	
1, 2	04/23/2018	04/27/2018	IP 7111121	Component Design Bases Inspection	
1, 2	05/07/2018	05/11/2018	IP 7111121	Component Design Bases Inspection	
1, 2	05/21/2018	05/25/2018	IP 7111121	Component Design Bases Inspection	
			EP - EP PROGRAM INSPECTION		3
1, 2, 3	04/16/2018	04/20/2018	IP 7111402	Alert and Notification System Testing	
1, 2, 3	04/16/2018	04/20/2018	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2, 3	04/16/2018	04/20/2018	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2, 3	04/16/2018	04/20/2018	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2, 3	04/16/2018	04/20/2018	IP 71151	Performance Indicator Verification	
			RP - RP PUBLIC INSPECTION		2
1, 2, 3	06/18/2018	06/22/2018	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2, 3	06/18/2018	06/22/2018	IP 71124.07	Radiological Environmental Monitoring Program	
1, 2, 3	06/18/2018	06/22/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1, 2, 3	06/18/2018	06/22/2018	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	

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

Enclosure