



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
245 PEACHTREE CENTER AVENUE N.E., SUITE 1200  
ATLANTA, GEORGIA 30303-1200

March 3, 2020

Mr. Jim Barstow  
Vice President, Nuclear Regulatory  
Affairs and Support Services  
Tennessee Valley Authority  
1101 Market Street, LP 4A-C  
Chattanooga, TN 37402-2801

SUBJECT: ANNUAL ASSESSMENT LETTER FOR BROWNS FERRY NUCLEAR PLANT,  
UNITS 1, 2 AND 3 - REPORT 05000259/2019006, 05000260/2019006 AND  
05000296/2019006

Dear Mr. Barstow:

The NRC has completed its end-of-cycle performance assessment of Browns Ferry Nuclear Plant, Units 1, 2 and 3, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2019, through December 31, 2019. 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 concluded that overall performance at your facility preserved public health and safety.

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

Although plant performance was within the Licensee Response Column, the NRC has not yet finalized the significance of Apparent Violation (AV) 05000259, 260, 296/2019490-01, Security Finding. The final safety significance determination may affect the NRC's assessment of plant performance and the enclosed inspection plan.

In addition to the ROP baseline inspections, we also plan on conducting infrequently performed inspections which include Initial License Examination, Temporary Instruction 2515/193, and the inspection of the implementation of EA13-109: Order Modifying Licenses with Regard to Reliable Hardened Containment Vents Capable of Operation Under Severe Accident Conditions.

The enclosed inspection plan lists the inspections scheduled through December 31, 2020. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. You should be aware that the agency is pursuing potential changes to the ROP, including changes to engineering inspections (SECY-18-0113, "Recommendations for Modifying the Reactor Oversight Process Engineering Inspections"). Should these changes to the ROP be implemented, the engineering and other region-based

inspections are subject to change in scope, as well as schedule. The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with 10 CFR 2.390, "Public Inspections, Exemptions, and Requests for Withholding."

Please contact me at (404) 997-4703 with any questions you may have regarding this letter.

Sincerely,

**/RA/**

Thomas Stephen, Acting Chief  
Reactor Projects Branch 5  
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  
(03/01/2020- 12/31/2021)

cc: Distribution via ListServ

SUBJECT: ANNUAL ASSESSMENT LETTER FOR BROWNS FERRY NUCLEAR PLANT,  
UNITS 1, 2 AND 3 - REPORT 05000259/2019006, 05000260/2019006 AND  
05000296/2019006 – March 3, 2020

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OFFICE	RII:DRP	RII:DRP	RII:DRP			
NAME	J Seat	S Ninh	T Stephen			
DATE	2/18/2020	2/18/2020	2/26/2020			

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# IP 22 Inspection Activity Plan Report

## Browns Ferry

03/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>UNIT 3 IN-SERVICE INSPECTION</b>						1
3	03/02/2020	03/06/2020	IP 71111.08G	000701	Inservice Inspection Activities (BWR)	
<b>EVALUATIONS OF CHANGES, TESTS, AND EXPERIMENTS</b>						3
1, 2, 3	05/04/2020	05/08/2020	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
<b>EMERGENCY PREPAREDNESS PROGRAM INSPECTION</b>						2
1, 2, 3	05/04/2020	05/08/2020	IP 71114.02	000717	Alert and Notification System Testing	
1, 2, 3	05/04/2020	05/08/2020	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1, 2, 3	05/04/2020	05/08/2020	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2, 3	05/04/2020	05/08/2020	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1, 2, 3	05/04/2020	05/08/2020	IP 71151	001397	Performance Indicator Verification	
<b>RELIABLE HARDENED CONTAINMENT VENT TI-193</b>						2
1, 2, 3	05/11/2020	05/14/2020	TI 2515/193	000511	Inspection of the Implementation of EA-13-109: Order Modifying Licenses with Regard to Reliable Hardened Containment Vents Capable of Operation under Severe Accident Conditions	
<b>SECURITY BASELINE INSPECTION</b>						2
1, 2, 3	06/01/2020	06/05/2020	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2, 3	06/01/2020	06/05/2020	IP 71130.07	000739	Security Training	
<b>RP PUBLIC RAD SAFETY BASELINE INSPECTION</b>						2
1, 2, 3	07/06/2020	07/10/2020	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2, 3	07/06/2020	07/10/2020	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1, 2, 3	07/06/2020	07/10/2020	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1, 2, 3	07/06/2020	07/10/2020	IP 71151	000746	Performance Indicator Verification	
<b>TRIENNIAL HEAT SINK PERFORMANCE</b>						1
1, 2, 3	07/20/2020	07/24/2020	IP 71111.07T	000700	Heat Sink Performance	
<b>PROBLEM IDENTIFICATION AND RESOLUTION</b>						4
1, 2, 3	08/24/2020	08/28/2020	IP 71152B	000747	Problem Identification and Resolution	
1, 2, 3	09/07/2020	09/11/2020	IP 71152B	000747	Problem Identification and Resolution	

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

Enclosure

# IP 22 Inspection Activity Plan Report

## Browns Ferry

03/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>BROWNS FERRY REQUAL INSPECTION</b>						2
1, 2, 3	09/14/2020	09/18/2020	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
<b>MATERIAL CONTROL &amp; ACCOUNTING</b>						3
1, 2, 3	10/01/2020	12/31/2020	IP 71130.11	000742	Material Control and Accounting (MC&A)	
<b>UNIT 1 IN-SERVICE INSPECTION</b>						1
1	10/05/2020	10/09/2020	IP 71111.08G	000701	Inservice Inspection Activities (BWR)	
<b>SECURITY BASELINE INSPECTION</b>						1
1, 2, 3	02/08/2021	02/12/2021	IP 71130.02	000734	Access Control	
1, 2, 3	02/08/2021	02/12/2021	IP 71130.09	001656	Security Plan Changes	
1, 2, 3	02/08/2021	02/12/2021	IP 71151	001338	Performance Indicator Verification	
<b>UNIT 2 IN-SERVICE INSPECTION</b>						1
2	03/08/2021	03/12/2021	IP 71111.08G	000701	Inservice Inspection Activities (BWR)	
<b>RP OCCUPATIONAL RAD SAFETY BASELINE INSPECTION</b>						3
1, 2, 3	03/08/2021	03/12/2021	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2, 3	03/08/2021	03/12/2021	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2, 3	03/08/2021	03/12/2021	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2, 3	03/08/2021	03/12/2021	IP 71124.04	000728	Occupational Dose Assessment	
1, 2, 3	03/08/2021	03/12/2021	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2, 3	03/08/2021	03/12/2021	IP 71151	000746	Performance Indicator Verification	
1, 2, 3	04/12/2021	04/16/2021	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2, 3	04/12/2021	04/16/2021	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2, 3	04/12/2021	04/16/2021	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2, 3	04/12/2021	04/16/2021	IP 71124.04	000728	Occupational Dose Assessment	
1, 2, 3	04/12/2021	04/16/2021	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2, 3	04/12/2021	04/16/2021	IP 71151	000746	Performance Indicator Verification	
<b>BROWNS FERRY INITIAL LICENSE EXAM</b>						6
1, 2, 3	04/12/2021	04/16/2021	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2, 3	05/17/2021	05/28/2021	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	

# IP 22 Inspection Activity Plan Report

## Browns Ferry

03/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>DESIGN BASES ASSURANCE INSPECTION (TEAMS)</b>						4
1, 2, 3	05/17/2021	05/21/2021	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
1, 2, 3	06/07/2021	06/11/2021	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
<b>EMERGENCY PREPAREDNESS EXERCISE</b>						5
1, 2, 3	06/20/2021	06/26/2021	IP 71114.01	000716	Exercise Evaluation	
1, 2, 3	06/20/2021	06/26/2021	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2, 3	06/20/2021	06/26/2021	IP 71151	001397	Performance Indicator Verification	
<b>TARGET SET INSPECTION</b>						2
1, 2, 3	12/06/2021	12/10/2021	IP 71130.14	000743	Review of Power Reactor Target Sets	