



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

March 3, 2020

Mr. J. Ed Burchfield, Jr.  
Site Vice President  
Duke Energy Corporation  
Oconee Nuclear Station  
7800 Rochester Highway  
Seneca, SC 29672-0752

SUBJECT: ANNUAL ASSESSMENT LETTER FOR OCONEE NUCLEAR STATION UNITS 1,  
2, AND 3 - NRC INSPECTION REPORT 05000269/2019006, 05000270/2019006,  
AND 05000287/2019006

Dear Mr. Burchfield:

The NRC completed its end-of-cycle performance review of the Oconee Nuclear Station 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 that performance at Oconee Units 1, 2, and 3 during the most recent quarter was within the Licensee Response Column, the highest performance category of the NRC's Reactor Oversight Process (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.

The enclosed inspection plan lists the inspections scheduled through December 31, 2021. This updated inspection plan now includes planned security inspections which were formerly transmitted under separate correspondence. 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"), and other changes to the baseline inspection program described in SECY-19-0067, "Recommendations for Enhancing the Reactor Oversight Process." 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 12 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.

Additionally, during this period the NRC will schedule an additional inspection per a revised version Temporary Instruction (TI) 2515/194, "Inspection of the Licensee's Implementation of Industry Initiative Associated with the Open Phase Condition Design Vulnerability in Electrical

Power Systems (NRC Bulletin 2012-01)” for any sites who elect to implement the guidance of the Industry Initiative on Open Phase Condition, Revision 3 (ML19163A176), which included an option for relying on annunciation and operator manual actions instead of automatic protective features to isolate a power supply affected by an open phase condition. Licensees will be individually notified when the NRC schedules these inspections.

In accordance with Title 10 of the *Code of Federal Regulations* (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 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 404-997-4611 with any questions you have regarding this letter.

Sincerely,

/RA/

Frank Ehrhardt, Chief  
Reactor Project Branch 1  
Division of Reactor Projects

Docket Nos.: 50-269, 50-270, 50-287

License Nos.: DPR-38, DPR-47, DPR-55

Enclosure: Oconee Inspection/Activity Plan  
(03/01/2020 – 12/31/2021)

cc distribution via ListServ

Letter to E. Burchfield from F. Ehrhardt dated March 3, 2020

SUBJECT: ANNUAL ASSESSMENT LETTER FOR OCONEE NUCLEAR STATION UNITS 1,  
2, AND 3 - NRC INSPECTION REPORT 05000269/2019006, 05000270/2019006,  
AND 05000287/2019006

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**ADAMS Accession No:** ML20063L851

OFFICE	RII:DRP	RII:DRP			
NAME	J. Worosilo	F. Ehrhardt			
DATE	02/28/2020	02/28/2020			

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# IP 22 Inspection Activity Plan Report

## Oconee

03/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>SECURITY BASELINE INSPECTION</b>						3
1, 2, 3	03/23/2020	03/27/2020	IP 71130.02	000734	Access Control	
1, 2, 3	03/23/2020	03/27/2020	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2, 3	03/23/2020	03/27/2020	IP 71130.07	000739	Security Training	
1, 2, 3	03/23/2020	03/27/2020	IP 71130.09	001656	Security Plan Changes	
1, 2, 3	03/23/2020	03/27/2020	IP 71151	001338	Performance Indicator Verification	
<b>UNIT 3 IN-SERVICE INSPECTION</b>						1
3	04/13/2020	04/17/2020	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
<b>OCONEE INITIAL LICENSE EXAM</b>						4
1, 2, 3	04/27/2020	05/01/2020	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2, 3	06/01/2020	06/12/2020	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
<b>RP PUBLIC RAD SAFETY BASELINE INSPECTION</b>						2
1, 2, 3	07/20/2020	07/24/2020	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2, 3	07/20/2020	07/24/2020	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1, 2, 3	07/20/2020	07/24/2020	IP 71151	000746	Performance Indicator Verification	
<b>DESIGN BASES ASSURANCE INSPECTION (TEAMS)</b>						6
1, 2, 3	08/03/2020	08/07/2020	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
1, 2, 3	08/17/2020	08/21/2020	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
<b>EMERGENCY PREPAREDNESS EXERCISE</b>						5
1, 2, 3	08/31/2020	09/04/2020	IP 71114.01	000716	Exercise Evaluation	
1, 2, 3	08/31/2020	09/04/2020	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2, 3	08/31/2020	09/04/2020	IP 71151	001397	Performance Indicator Verification	
<b>FORCE-ON-FORCE PLANNING AND EXERCISE WEEKS - OCO</b>						6
1, 2, 3	09/14/2020	09/18/2020	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1, 2, 3	10/05/2020	10/09/2020	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
<b>UNIT 1 IN-SERVICE INSPECTION +SG</b>						2
1	10/19/2020	10/23/2020	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	

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

## Oconee

03/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>RP OCCUPATIONAL RAD SAFETY &amp; TRANSPORTATION BASELINE INSPECTION</b>						2
1, 2, 3	10/26/2020	10/30/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2, 3	10/26/2020	10/30/2020	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1, 2, 3	10/26/2020	10/30/2020	IP 71151	000746	Performance Indicator Verification	
<b>OCONEE REQUAL INSPECTION</b>						2
1, 2, 3	03/15/2021	03/19/2021	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
<b>SECURITY BASELINE INSPECTION</b>						1
1, 2, 3	04/19/2021	04/23/2021	IP 71130.02	000734	Access Control	
1, 2, 3	04/19/2021	04/23/2021	IP 71130.09	001656	Security Plan Changes	
1, 2, 3	04/19/2021	04/23/2021	IP 71151	001338	Performance Indicator Verification	
<b>OCONEE INITIAL LICENSE EXAM</b>						3
1, 2, 3	05/03/2021	05/07/2021	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2, 3	06/07/2021	06/18/2021	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
<b>TRIENNIAL HEAT SINK PERFORMANCE</b>						1
1, 2, 3	07/12/2021	07/16/2021	IP 71111.07T	000700	Heat Sink Performance	
<b>DESIGN BASES ASSURANCE INSPECTION (PROGRAMS)</b>						3
1, 2, 3	08/02/2021	08/06/2021	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
1, 2, 3	08/16/2021	08/20/2021	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
<b>EMERGENCY PREPAREDNESS PROGRAM INSPECTION</b>						2
1, 2, 3	10/17/2021	10/30/2021	IP 71114.02	000717	Alert and Notification System Testing	
1, 2, 3	10/17/2021	10/30/2021	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1, 2, 3	10/17/2021	10/30/2021	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2, 3	10/17/2021	10/30/2021	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1, 2, 3	10/17/2021	10/30/2021	IP 71151	001397	Performance Indicator Verification	
<b>UNIT 2 IN-SERVICE INSPECTION +SG</b>						2
2	11/15/2021	11/19/2021	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
<b>RP OCCUPATIONAL RAD SAFETY BASELINE INSPECTION</b>						3
1, 2, 3	11/15/2021	11/19/2021	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	

This report does not include INPO and OUTAGE activities.

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

# IP 22 Inspection Activity Plan Report

## Oconee

03/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>RP OCCUPATIONAL RAD SAFETY BASELINE INSPECTION</b>						3
1, 2, 3	11/15/2021	11/19/2021	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2, 3	11/15/2021	11/19/2021	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2, 3	11/15/2021	11/19/2021	IP 71124.04	000728	Occupational Dose Assessment	
1, 2, 3	11/15/2021	11/19/2021	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2, 3	11/15/2021	11/19/2021	IP 71151	000746	Performance Indicator Verification	
1, 2, 3	11/29/2021	12/03/2021	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2, 3	11/29/2021	12/03/2021	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2, 3	11/29/2021	12/03/2021	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2, 3	11/29/2021	12/03/2021	IP 71124.04	000728	Occupational Dose Assessment	
1, 2, 3	11/29/2021	12/03/2021	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2, 3	11/29/2021	12/03/2021	IP 71151	000746	Performance Indicator Verification	