



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

March 1, 2017

Mr. Tom Ray  
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 05000269/2016006, 05000270/2016006, AND 05000287/2016006**

Dear Mr. Ray:

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, 2016 through December 31, 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 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, 2018. 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. 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. This inspection plan does not include security-related inspections which will be sent via separate, non-publicly available correspondence.

The NRC will conduct Temporary Instruction (TI) 2515/191, "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans," in the future.

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

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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  
(03/01/2017 – 12/31/2018)

cc Distribution via ListServ

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2, AND 3 - NRC INSPECTION REPORT 05000269/2016006, 05000270/2016006,  
AND 05000287/2016006 March 1, 2017

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ADAMS Accession Number: ML 17060A211

OFFICE	RII:DRP	RII:DRP				
NAME	JWorosilo	FEhrhardt				
DATE	2/16/2017	2/17/2017				

**OFFICIAL AGENCY RECORD**

**Oconee**  
**Inspection / Activity Plan**  
**03/01/2017 - 12/31/2018**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>DBAI - DESIGN BASES ASSURANCE INSPECTION (TEAM)</b>		<b>7</b>
1, 2, 3	03/06/2017	03/10/2017	IP 7111121M	Component Design Bases Inspection (Teams)	
1, 2, 3	03/20/2017	03/24/2017	IP 7111121M	Component Design Bases Inspection (Teams)	
			<b>OL RQ - REQUAL INSPECTION</b>		<b>2</b>
1, 2, 3	03/20/2017	03/24/2017	IP 7111111B	Licensed Operator Requalification Program	
			<b>PI&amp;R - PROBLEM IDENTIFICATION AND RESOLUTION</b>		<b>4</b>
1, 2	04/03/2017	04/07/2017	IP 71152B	Problem Identification and Resolution	
1, 2	04/17/2017	04/21/2017	IP 71152B	Problem Identification and Resolution	
			<b>EP - EP PROGRAM INSPECTION</b>		<b>3</b>
1, 2, 3	09/25/2017	09/29/2017	IP 7111402	Alert and Notification System Testing	
1, 2, 3	09/25/2017	09/29/2017	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2, 3	09/25/2017	09/29/2017	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2, 3	09/25/2017	09/29/2017	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2, 3	09/25/2017	09/29/2017	IP 71151	Performance Indicator Verification	
			<b>RP - RP OCCUPATIONAL INSPECTION WEEK 1</b>		<b>2</b>
1, 2, 3	10/30/2017	11/03/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2, 3	10/30/2017	11/03/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2, 3	10/30/2017	11/03/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2, 3	10/30/2017	11/03/2017	IP 71124.04	Occupational Dose Assessment	
1, 2, 3	10/30/2017	11/03/2017	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2, 3	10/30/2017	11/03/2017	IP 71151	Performance Indicator Verification	
			<b>ISI - UNIT 2 IN-SERVICE INSPECTION</b>		<b>1</b>
2	11/06/2017	11/10/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>RP - RP OCCUPATIONAL INSPECTION WEEK 2</b>		<b>3</b>
1, 2, 3	11/13/2017	11/17/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2, 3	11/13/2017	11/17/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2, 3	11/13/2017	11/17/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2, 3	11/13/2017	11/17/2017	IP 71124.04	Occupational Dose Assessment	
1, 2, 3	11/13/2017	11/17/2017	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2, 3	11/13/2017	11/17/2017	IP 71151	Performance Indicator Verification	
			<b>SGISI - UNIT 2 SG IN-SERVICE INSPECTION</b>		<b>1</b>
2	11/13/2017	11/17/2017	IP 7111108P	Inservice Inspection Activities - PWR	

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

Enclosure

**Oconee**  
**Inspection / Activity Plan**  
**03/01/2017 - 12/31/2018**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>ISI - UNIT 3 IN-SERVICE INSPECTION</b>		<b>1</b>
3	04/30/2018	05/04/2018	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>RP - RAD HAZARDS AND TRANSPORTATION</b>		<b>2</b>
1, 2, 3	04/30/2018	05/04/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2, 3	04/30/2018	05/04/2018	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			<b>OL EXAM - INITIAL LICENSE EXAM PREP</b>		<b>6</b>
1	05/07/2018	05/11/2018	V23512	OCONEE / JUNE 2018 INITIAL EXAM AT POWER FACILITIES	
			<b>SGISI - UNIT 3 SG IN-SERVICE INSPECTION</b>		<b>1</b>
3	05/07/2018	05/11/2018	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>OL EXAM - INITIAL LICENSE EXAM</b>		<b>4</b>
1	06/04/2018	06/15/2018	V23512	OCONEE / JUNE 2018 INITIAL EXAM AT POWER FACILITIES	
			<b>HS - TRIENNIAL HEAT SINK PERFORMANCE</b>		<b>1</b>
1, 2, 3	06/18/2018	06/22/2018	IP 7111107T	Heat Sink Performance	
			<b>RP - RP PUBLIC INSPECTION</b>		<b>2</b>
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	
			<b>EP - EP EXERCISE</b>		<b>9</b>
1, 2, 3	08/13/2018	08/17/2018	IP 7111401	Exercise Evaluation	
1, 2, 3	08/13/2018	08/17/2018	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2, 3	08/13/2018	08/17/2018	IP 71151-EP01	Drill/Exercise Performance	
1, 2, 3	08/13/2018	08/17/2018	IP 71151-EP02	ERO Readiness	
1, 2, 3	08/13/2018	08/17/2018	IP 71151-EP03	Alert & Notification System Reliability	
1, 2, 3	08/13/2018	08/17/2018	IP 71151-EP03	Alert & Notification System Reliability	
			<b>EQI - DESIGN BASES ASSURANCE INSPECTION (PROGR</b>		<b>3</b>
1, 2, 3	08/27/2018	08/31/2018	IP 7111121N	Component Design Bases Inspection (Programs)	
1, 2, 3	09/17/2018	09/21/2018	IP 7111121N	Component Design Bases Inspection (Programs)	
3	10/01/2018	10/05/2018	IP 7111121N	Component Design Bases Inspection (Programs)	
			<b>ISI - UNIT 1 IN-SERVICE INSPECTION</b>		<b>1</b>
1	11/05/2018	11/09/2018	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>SGISI - UNIT 1 SG IN-SERVICE INSPECTION</b>		<b>1</b>
1	11/12/2018	11/16/2018	IP 7111108P	Inservice Inspection Activities - PWR	

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