

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

September 1, 2015

Mr. Scott Batson Site Vice President Duke Energy Corporation Oconee Nuclear Station 7800 Rochester Highway Seneca, SC 29672-0752

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR OCONEE NUCLEAR STATION UNITS 1, 2 AND 3 (NRC INSPECTION REPORT 05000269/2015005, 05000270/2015005 AND 05000287/2015005)

Dear Mr. Batson:

On August 11, 2015, the NRC completed its mid-cycle performance review of the Oconee Nuclear Station 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, 2014, through June 30, 2015. 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 Oconee 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.

Oconee Unit 1 was in the Regulatory Response Column of the Action Matrix following the endof-cycle 2014 assessment because of one white inspection finding in the initiating events cornerstone. On February 27, 2015, the NRC completed the supplemental inspection under Inspection Procedure 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area." As a result, on April 1, 2015, Oconee Nuclear Station Unit 1 moved to the Licensee Response Column of the ROP Action Matrix.

The enclosed inspection plan lists the inspections scheduled through June 30, 2017. Routine inspections performed by resident inspectors are not included in the inspection plan. Additionally, the staff will continue its review of modifications associated with fire, tornado, high energy line break mitigation, external flooding, and the protected service water system. The inspections listed during the second half 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 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." The order requires licensees to develop, implement, and maintain guidance and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities following a beyond-design-basis external event. Additionally, the Commission issued Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation." The order requires licensees to have a reliable means of remotely monitoring wide-range spent fuel pool levels to support effective prioritization of event mitigation and recovery actions in the event of a beyond-design-basis external event. The NRC is conducting audits of licensee efforts towards compliance with these orders. The audit was completed for the Oconee Nuclear Station, 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 final safety evaluation will be issued. Then, the NRC staff will confirm through inspections the full implementation of the orders mentioned above by performing TI 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 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 <u>http://www.nrc.gov/reading-rm/adams.html</u> (the Public Electronic Reading Room).

Please contact me at 404-997-4611 with any questions you have regarding this letter.

Sincerely,

/**RA**/

Joel T. Munday, Director 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 (09/01/2015 – 06/30/2017)

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NON-PUBLICLY AVAILABLE

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ADAMS: 🗌 Yes	ACCESSION	NUMBER:

☐ SENSITIVE

□ NON-SENSITIVE SUNSI REVIEW COMPLETE FORM 665 ATTACHED

OFFICE	RII:DRP	RII:DRP	RII:DRP				
SIGNATURE	JGW1	FJE	JTM				
NAME	J. Worosilo	F. Ehrhardt	J. Munday				
DATE	8/17/2015	8/19/2015	8/19/2015	9/ /2015	9/ /2015	9/ /2015	9/ /2015
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

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Letter to S. Batson from J. Munday dated September 1, 2015

SUBJECT: MD-CYCLE ASSESSMENT LETTER FOR OCONEE NUCLEAR STATION UNITS 1, 2 AND 3 (NRC INSPECTION REPORT 05000269/2015005, 05000270/2015005 AND 05000287/2015005)

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Oconee Inspection / Activity Plan 09/01/2015 - 06/30/2017

Planne	d Dates			No. of Staff
Start	End	Inspection Activity	Title	on Site
		HS - TRIEN	INIAL HEAT SINK PERFORMANCE	1
08/31/2015	09/04/2015	IP 7111107T	Heat Sink Performance	
		EP - EP PR	OGRAM INSPECTION	4
09/28/2015	10/02/2015	IP 7111402	Alert and Notification System Testing	
09/28/2015	10/02/2015	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
09/28/2015	10/02/2015	IP 7111404	Emergency Action Level and Emergency Plan Changes	
09/28/2015	10/02/2015	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
09/28/2015	10/02/2015	IP 71151	Performance Indicator Verification	
		ISI - UNIT 2	2 IN-SERVICE INSPECTION	1
10/19/2015	10/23/2015	IP 7111108P	Inservice Inspection Activities - PWR	
		RP - RP OC	CCUPATIONAL BASELINE WEEK 1	2
10/19/2015	10/23/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
10/19/2015	10/23/2015	IP 71124.02	Occupational ALARA Planning and Controls	
10/19/2015	10/23/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
10/19/2015	10/23/2015	IP 71124.04	Occupational Dose Assessment	
10/19/2015	10/23/2015	IP 71124.05	Radiation Monitoring Instrumentation	
10/19/2015	10/23/2015	IP 71151	Performance Indicator Verification	
		SGISI - UNIT 2	2 SG IN-SERVICE INSPECTION	1
10/26/2015	10/30/2015	IP 7111108P	Inservice Inspection Activities - PWR	
		OL EXAM - INITIA	L LICENSE EXAM PREP	3
11/02/2015	11/06/2015	V23465	OCONEE NOVEMBER 2015 INITIAL EXAM AT POWER FACILITIES	
		RP - RP OC	CCUPATIONAL BASELINE WEEK 2	3
11/02/2015	11/06/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
11/02/2015	11/06/2015	IP 71124.02	Occupational ALARA Planning and Controls	
11/02/2015	11/06/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
11/02/2015	11/06/2015	IP 71124.04	Occupational Dose Assessment	
11/02/2015	11/06/2015	IP 71124.05	Radiation Monitoring Instrumentation	
11/02/2015	11/06/2015	IP 71151	Performance Indicator Verification	
		OL EXAM - INITIA	L LICENSE EXAM	3
11/30/2015	12/11/2015	V23465	OCONEE NOVEMBER 2015 INITIAL EXAM AT POWER FACILITIES	
		TFPI - TRIEN	INIEL FIRE PROTECTION INSPECTION	4
02/29/2016	03/04/2016	IP 7111105T	Fire Protection [Triennial]	
03/14/2016	03/18/2016	IP 7111105T	Fire Protection [Triennial]	
	Start 08/31/2015 09/28/2015 09/28/2015 09/28/2015 09/28/2015 09/28/2015 09/28/2015 09/28/2015 09/28/2015 10/19/2015 10/19/2015 10/19/2015 10/19/2015 10/19/2015 10/19/2015 10/19/2015 10/19/2015 10/26/2015 11/02/2	Start End 08/31/2015 09/04/2015 09/28/2015 10/02/2015 09/28/2015 10/02/2015 09/28/2015 10/02/2015 09/28/2015 10/02/2015 09/28/2015 10/02/2015 09/28/2015 10/02/2015 09/28/2015 10/02/2015 09/28/2015 10/02/2015 10/19/2015 10/23/2015 10/19/2015 10/23/2015 10/19/2015 10/23/2015 10/19/2015 10/23/2015 10/19/2015 10/23/2015 10/19/2015 10/23/2015 10/19/2015 10/23/2015 10/19/2015 10/23/2015 10/19/2015 10/23/2015 10/19/2015 10/23/2015 11/02/2015 11/06/2015 11/02/2015 11/06/2015 11/02/2015 11/06/2015 11/02/2015 11/06/2015 11/02/2015 11/06/2015 11/02/2015 11/06/2015 11/02/2015 11/06/2015 11/02/2015	Start End Inspection Activity 08/31/2015 09/04/2015 IP 7111107T EP - EP PR 09/28/2015 10/02/2015 IP 7111402 - EP PR 09/28/2015 10/02/2015 IP 7111403 - EP PR 09/28/2015 10/02/2015 IP 7111403 - EP PR 09/28/2015 10/02/2015 IP 7111403 - EP PR 09/28/2015 10/02/2015 IP 7111404 - EP PR 09/28/2015 10/02/2015 IP 7111403 - EP PR 09/28/2015 10/02/2015 IP 7111404 - EP PR 09/28/2015 10/02/2015 IP 7111405 - UNIT 2 09/28/2015 10/02/2015 IP 7111408P - UNIT 2 10/19/2015 10/23/2015 IP 71124.02 - EP PR 10/19/2015 10/23/2015 IP 71124.03 - EP PR 10/19/2015 10/23/2015 IP 71124.04 - EP PR 10/19/2015 10/23/2015 IP 71124.05 - EP PR 10/19/2015 10/23/2015 IP 71124.04 - EP PR <	Start End Inspection Activity Title H3 - TRIENNIAL HEAT SINK PERFORMANCE H83 - TRIENNIAL HEAT SINK PERFORMANCE 08/31/2015 09/04/2015 IP 7111100T Heat Sink Performance EP - EP PROGRAM INSPECTION 09/28/2015 10/02/2015 IP 7111402 Alert and Notification System Testing 09/28/2015 10/02/2015 IP 7111402 Emergency Preparedness Organization Staffing and Augmentation System 09/28/2015 10/02/2015 IP 7111402 Correction of Emergency Preparedness Weaknesses and Deficiencies 09/28/2015 10/02/2015 IP 7111105 Correction of Emergency Preparedness Weaknesses and Deficiencies 09/28/2015 10/02/2015 IP 7111105 Correction of Emergency Preparedness Weaknesses and Deficiencies 09/28/2015 10/02/2015 IP 7111108P Inservice Inspection Activities - PWR R - RP OCCUPATIONAL BASELINE WEEK 1 10/19/2015 10/23/2015 IP 71124.01 Radioactivity Control and Mitigation 10/19/2015 10/23/2015 IP 71124.03 In-Plant Althore Radioactivity Control and Mitigation 10/19/2015 10/23/2015

This report does not include INPO and OUTAGE activities. This report shows only on-site and announced inspection procedures. Page 2 of 2

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Oconee Inspection / Activity Plan 09/01/2015 - 06/30/2017

Number Start End Inspection Activity Title of Site 3 050022016 050022016 050022016 0711108P Inservice Inspectan Activities - PWR 1 1.2,3 050022016 050022016 050022016 050022016 0711108P Inservice Inspectan Activities - PWR 2 1.2,3 050022016 050022016 050022016 050022016 0711108P Inservice Inspectan Activities - PWR 2 1.2,3 050022016 051122016 P711124.08 Radioactive Soft Waste Processing and Radioactive Matherial Handling, Storage, and Transportation 3 3 05092016 051022016 V2140 Caladactive Soft Waste Processing and Radioactive Matherial Handling, Storage, and Transportation 2 3 05092016 051022016 V23470 OCONEE JUNE 2016 INITIAL EXAM AT POWER FACILITIES 2 1.2,3 060622016 0611022016 IP 71134.06 Radioactive Gaseous and Liquid Effluent Treatment 3 1.2,3 060622016 0611022016 IP 71134.06 Radioactive Caladactive Matherial Handling, Pompara 3 1.	Unit	Planne	d Dates	1		No. of Staff
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1.2.3 0502/201 0506/201 IP 71124.01 Radiological Hazard Assessment and Exposure Controls 1.2.3 0502/201 0506/201 IP 71124.05 Radiological Hazard Assessment and Exposure Controls 3 0509/201 0513/201 IP 711124.0 Radiological Hazard Assessment and Exposure Controls 1 3 0509/2016 0513/201 IP 711104P Inservice Inspection Activities - PWR 3 1 0509/2016 0502/2016 V23470 OCONE JUNE JUNE SEXING PREP 3 1 0509/2016 0610/2016 IP 71124.06 Radiological EXM AT POWER FACILITIES 2 1.2.3 0606/2016 0610/2016 IP 71124.07 Radiological Exit Processing and Liquid Effluent Treatment 2 1.2.3 0606/2016 0610/2016 IP 71124.07 Radiological Exit Processing and Liquid Effluent Treatment 2 1.2.3 0606/2016 0610/2016 IP 71124.07 Radiological Exit Processing and Liquid Effluent Treatment 2 1.2.3 0606/2016 0617/2016 IP 711124.07 Radiological Exit Processing and Liquid Effluent Treatment 2 1.2.3 0607/2016 10717206 IP 711140.07	3	05/02/2016	05/06/2016	IP 7111108P	Inservice Inspection Activities - PWR	
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1.2.3 06/06/2016 06/10/2016 IP 71124.06 Radioactive Gaseous and Liquid Effluent Treatment 1.2.3 06/06/2016 06/10/2016 IP 71124.07 Radiological Environmental Monitoring Program 1.2.3 06/06/2016 06/10/2016 IP 71151 Performance Indicator Verification 3 1.2.3 06/06/2016 06/10/2016 IP 71151 Performance Indicator Verification 3 1.2.3 06/07/2016 06/17/2016 IV 21/2016 IP 711141 Exercise Evaluation 6 1.2.3 10/17/2016 10/21/2016 IP 7111401 Exercise Evaluation 6 1.2.3 10/17/2016 10/21/2016 IP 7111404 Emergency Action Level and Emergency Plan Changes 6 1.2.3 10/17/2016 10/21/2016 IP 7111408 Exercise Evaluation - Scenario Review 1 1.2.3 10/17/2016 10/21/2016 IP 7111108 Performance Indicator Verification 1 1 11/14/2016 10/21/2016 IP 7111108 Inservice Inspection Activities - PWR 1 1 11/12/12/16 11/8/2016 IP 7111108 Inservice Inspection Activities - PWR 7 <td>1</td> <td>05/16/2016</td> <td>05/20/2016</td> <td>V23470</td> <td>OCONEE JUNE 2016 INITIAL EXAM AT POWER FACILITIES</td> <td></td>	1	05/16/2016	05/20/2016	V23470	OCONEE JUNE 2016 INITIAL EXAM AT POWER FACILITIES	
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This report does not include INPO and OUTAGE activities. This report shows only on-site and announced inspection procedures.