



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

March 1, 2017

Mr. B. Keith Taber, Vice President  
Southern Nuclear Operating Company, Inc.  
Vogtle Electric Generating Plant  
7821 River Road  
Waynesboro, GA 30830

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR VOGTLE ELECTRIC GENERATING  
PLANT UNITS 1 AND 2 (REPORT 05000424/2016006 AND 05000425/2016006)**

Dear Mr. Taber:

The NRC has completed its end-of-cycle performance assessment of Vogtle Electric Generating Plant Units 1 and 2, 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 the performance at Vogtle Units 1 and 2 during the most recent quarter was within the Regulatory Response Column, the second highest performance column of the NRC's Reactor Oversight Process (ROP) Action Matrix. This conclusion was based on one or more Greater-than-Green inspection findings in the Security Cornerstone originating in the first quarter of 2016, and all PIs within the expected range (i.e., Green). As of January 1, 2017, Vogtle Units 1 and 2 returned to the Licensee Response Column.

Although plant performance was within the Licensee Response Column as of January 1, 2017, the NRC has not yet finalized the significance of AV 05000424, 425/2017503, "Transposition Results in Significantly Different EAL Threshold Values," (ML17040A346). The final safety significance determination may affect the NRC's assessment of plant performance and the enclosed inspection plan.

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 any changes. This inspection plan does not include the plan for security-related inspections, which will be sent via separate, non-publicly available correspondence.

In addition, the NRC will perform Temporary Instruction (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,

B. Taber

2

Appendix A, Mitigation Strategies For Beyond-Design Basis External Events,” and TI-192, “Inspection of the Licensee’s Interim Compensatory Measures Associated with the Open Phase Condition (OPC) Design Vulnerabilities In Electric Power Systems.”

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 Shane Sandal at 404-997-4513 with any questions you have regarding this letter.

Sincerely,

*/RA/*

Joel T. Munday, Director  
Division of Reactor Projects

Docket Nos.: 50-424, 50-425  
License Nos.: NPF-68 and NPF-81

Enclosure:  
Vogtle Inspection/Activity Plan  
(03/01/2017 – 12/31/2018)

cc: Distribution via ListServ

B. Taber

3

SUBJECT: ANNUAL ASSESSMENT LETTER FOR VOGTLE ELECTRIC GENERATING  
PLANT UNITS 1 AND 2 (REPORT 05000424/2016006 AND 05000425/2016006)

**DISTRIBUTION:**

M. Kowal, RII  
OE Mail  
RIDSNNRRDIRS  
PUBLIC  
RidsNrrPMVogtle Resource  
ROPassessment Resource  
ROPreports Resource  
Institute of Nuclear Power Operations (INPO)

ADAMS Accession Number: ML 17060A267

OFFICE	RII:DRP	RII:DRP					
NAME	SSandal	JMunday					
DATE	2/13/2017	2/27/2017					

**OFFICIAL RECORD COPY**

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

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>PB2TI192 - TI-192</b>		<b>2</b>
1, 2	01/01/2017	03/31/2017	IP 2515/192	Inspection of the Licensee's Interim Compensatory Measures Associated with the Open Phase Condition	
			<b>PI&amp;R - PROBLEM IDENTIFICATION AND RESOLUTION</b>		<b>4</b>
1, 2	03/06/2017	03/10/2017	IP 71152B	Problem Identification and Resolution	
			<b>ISI - UNIT 1 IN-SERVICE INSPECTION</b>		<b>1</b>
1	03/20/2017	03/24/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>SGISI - UNIT 1 SG IN-SERVICE INSPECTION</b>		<b>1</b>
1	03/20/2017	03/24/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>OL EXAM - INITIAL LICENSE EXAM PREP</b>		<b>4</b>
1	03/20/2017	03/24/2017	V23491	VOGTLE/UNIT 1 APRIL 2017 INITIAL EXAM AT POWER FACILITIES	
			<b>OL EXAM - INITIAL LICENSE EXAM</b>		<b>4</b>
1	05/01/2017	05/19/2017	V23491	VOGTLE/UNIT 1 APRIL 2017 INITIAL EXAM AT POWER FACILITIES	
			<b>EP - EP PROGRAM INSPECTION</b>		<b>2</b>
1, 2	05/08/2017	05/12/2017	IP 7111402	Alert and Notification System Testing	
1, 2	05/08/2017	05/12/2017	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	05/08/2017	05/12/2017	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	05/08/2017	05/12/2017	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	05/08/2017	05/12/2017	IP 71151	Performance Indicator Verification	
			<b>TFPI - TRIENNIEL FIRE PROTECTION INSPECTION</b>		<b>8</b>
1, 2	06/12/2017	06/16/2017	IP 7111105T	Fire Protection [Triennial]	
1, 2	06/26/2017	06/30/2017	IP 7111105T	Fire Protection [Triennial]	
			<b>OL RQ - REQUAL INSPECTION</b>		<b>2</b>
1, 2	06/26/2017	06/30/2017	IP 7111111B	Licensed Operator Requalification Program	
			<b>HS - TRIENNIAL HEAT SINK PERFORMANCE</b>		<b>1</b>
1, 2	07/10/2017	07/14/2017	IP 7111107T	Heat Sink Performance	
			<b>ISI - UNIT 2 IN-SERVICE INSPECTION</b>		<b>1</b>
2	09/25/2017	09/29/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>RP - RP PUBLIC INSPECTION</b>		<b>2</b>
1, 2	09/25/2017	09/29/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	09/25/2017	09/29/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			<b>SGISI - UNIT 2 SG IN-SERVICE INSPECTION</b>		<b>1</b>
2	10/02/2017	10/06/2017	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

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

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>EQI - DESIGN BASES ASSURANCE INSPECTION (PROGR</b>		<b>4</b>
1, 2	11/06/2017	11/10/2017	IP 7111121N	Component Design Bases Inspection (Programs)	
1, 2	11/27/2017	12/01/2017	IP 7111121N	Component Design Bases Inspection (Programs)	
1, 2	12/11/2017	12/15/2017	IP 7111121N	Component Design Bases Inspection (Programs)	
			<b>TI-191 - MITIGATING STRATEGIES</b>		<b>3</b>
1, 2	11/13/2017	11/17/2017	IP 2515/191	Inspection of Licensee's Responses to Order EA-12-049, EA-12-051 & EP Info Request March 12, 2012	
			<b>RP - RP PUBLIC INSPECTION</b>		<b>2</b>
1, 2	12/04/2017	12/08/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	12/04/2017	12/08/2017	IP 71124.07	Radiological Environmental Monitoring Program	
1, 2	12/04/2017	12/08/2017	IP 71151	Performance Indicator Verification	
			<b>EP - EP EXERCISE</b>		<b>6</b>
1, 2	05/14/2018	05/18/2018	IP 7111401	Exercise Evaluation	
1, 2	05/14/2018	05/18/2018	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	05/14/2018	05/18/2018	IP 7111408	Exercise Evaluation – Scenario Review	
1, 2	05/14/2018	05/18/2018	IP 71151-EP02	ERO Readiness	
			<b>MODS - PLANT MODIFICATIONS INSPECTION</b>		<b>3</b>
1, 2	08/27/2018	08/31/2018	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			<b>RP - RP OCCUPATIONAL - WEEK 1</b>		<b>2</b>
1, 2	09/24/2018	09/28/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	09/24/2018	09/28/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	09/24/2018	09/28/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	09/24/2018	09/28/2018	IP 71124.04	Occupational Dose Assessment	
1, 2	09/24/2018	09/28/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1, 2	09/24/2018	09/28/2018	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			<b>ISI - UNIT 1 IN-SERVICE INSPECTION</b>		<b>1</b>
1	10/08/2018	10/12/2018	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>RP - RP OCCUPATIONAL - WEEK 2</b>		<b>2</b>
1, 2	10/15/2018	10/19/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	10/15/2018	10/19/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	10/15/2018	10/19/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	10/15/2018	10/19/2018	IP 71124.04	Occupational Dose Assessment	
1, 2	10/15/2018	10/19/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1, 2	10/15/2018	10/19/2018	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.

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

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>SGISI - UNIT 1 SG IN-SERVICE INSPECTION</b>		<b>1</b>
1	10/15/2018	10/19/2018	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>OL EXAM - INITIAL LICENSE EXAM PREP</b>		<b>3</b>
1	10/29/2018	11/02/2018	V23520	VOGTLE U1/ DECEMBER 2018 INITIAL EXAM AT POWER FACILITIES	
			<b>OL EXAM - INITIAL LICENSE EXAM</b>		<b>3</b>
1	11/26/2018	12/14/2018	V23520	VOGTLE U1/ DECEMBER 2018 INITIAL EXAM AT POWER FACILITIES	
			<b>RP - RP INSTRUMENTS</b>		<b>1</b>
1, 2	12/03/2018	12/07/2018	IP 71124.05	Radiation Monitoring Instrumentation	

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