



**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 | | | |
| | | | PB2TI192 - TI-192 | | 2 |
| 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 | |
| | | | PI&R - PROBLEM IDENTIFICATION AND RESOLUTION | | 4 |
| 1, 2 | 03/06/2017 | 03/10/2017 | IP 71152B | Problem Identification and Resolution | |
| | | | ISI - UNIT 1 IN-SERVICE INSPECTION | | 1 |
| 1 | 03/20/2017 | 03/24/2017 | IP 7111108P | Inservice Inspection Activities - PWR | |
| | | | SGISI - UNIT 1 SG IN-SERVICE INSPECTION | | 1 |
| 1 | 03/20/2017 | 03/24/2017 | IP 7111108P | Inservice Inspection Activities - PWR | |
| | | | OL EXAM - INITIAL LICENSE EXAM PREP | | 4 |
| 1 | 03/20/2017 | 03/24/2017 | V23491 | VOGTLE/UNIT 1 APRIL 2017 INITIAL EXAM AT POWER FACILITIES | |
| | | | OL EXAM - INITIAL LICENSE EXAM | | 4 |
| 1 | 05/01/2017 | 05/19/2017 | V23491 | VOGTLE/UNIT 1 APRIL 2017 INITIAL EXAM AT POWER FACILITIES | |
| | | | EP - EP PROGRAM INSPECTION | | 2 |
| 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 | |
| | | | TFPI - TRIENNIEL FIRE PROTECTION INSPECTION | | 8 |
| 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] | |
| | | | OL RQ - REQUAL INSPECTION | | 2 |
| 1, 2 | 06/26/2017 | 06/30/2017 | IP 7111111B | Licensed Operator Requalification Program | |
| | | | HS - TRIENNIAL HEAT SINK PERFORMANCE | | 1 |
| 1, 2 | 07/10/2017 | 07/14/2017 | IP 7111107T | Heat Sink Performance | |
| | | | ISI - UNIT 2 IN-SERVICE INSPECTION | | 1 |
| 2 | 09/25/2017 | 09/29/2017 | IP 7111108P | Inservice Inspection Activities - PWR | |
| | | | RP - RP PUBLIC INSPECTION | | 2 |
| 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 | |
| | | | SGISI - UNIT 2 SG IN-SERVICE INSPECTION | | 1 |
| 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 | | | |
| | | | EQI - DESIGN BASES ASSURANCE INSPECTION (PROGR | | 4 |
| 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) | |
| | | | TI-191 - MITIGATING STRATEGIES | | 3 |
| 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 | |
| | | | RP - RP PUBLIC INSPECTION | | 2 |
| 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 | |
| | | | EP - EP EXERCISE | | 6 |
| 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 | |
| | | | MODS - PLANT MODIFICATIONS INSPECTION | | 3 |
| 1, 2 | 08/27/2018 | 08/31/2018 | IP 7111117T | Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications | |
| | | | RP - RP OCCUPATIONAL - WEEK 1 | | 2 |
| 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 | |
| | | | ISI - UNIT 1 IN-SERVICE INSPECTION | | 1 |
| 1 | 10/08/2018 | 10/12/2018 | IP 7111108P | Inservice Inspection Activities - PWR | |
| | | | RP - RP OCCUPATIONAL - WEEK 2 | | 2 |
| 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 | | | |
| | | | SGISI - UNIT 1 SG IN-SERVICE INSPECTION | | 1 |
| 1 | 10/15/2018 | 10/19/2018 | IP 7111108P | Inservice Inspection Activities - PWR | |
| | | | OL EXAM - INITIAL LICENSE EXAM PREP | | 3 |
| 1 | 10/29/2018 | 11/02/2018 | V23520 | VOGTLE U1/ DECEMBER 2018 INITIAL EXAM AT POWER FACILITIES | |
| | | | OL EXAM - INITIAL LICENSE EXAM | | 3 |
| 1 | 11/26/2018 | 12/14/2018 | V23520 | VOGTLE U1/ DECEMBER 2018 INITIAL EXAM AT POWER FACILITIES | |
| | | | RP - RP INSTRUMENTS | | 1 |
| 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.