



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

March 8, 2012

Mr. Tom E. Tynan
Vice President
Southern Nuclear Operating Company, Inc.
Vogtle Electric Generating Plant
7821 River Road
Waynesboro, GA 30830

SUBJECT: VOGTLE ELECTRIC GENERATING PLANT - NOTIFICATION OF TRIENNIAL
FIRE PROTECTION BASELINE INSPECTION (NRC INSPECTION REPORT NO.
05000424/2012007 AND 05000425/2012007)

Dear Mr. Tynan:

The purpose of this letter is to notify you that the U.S. Nuclear Regulatory Commission (NRC) Region II staff will conduct a triennial fire protection baseline inspection at Vogtle Electric Generating Plant in June and July 2012. The inspection team will be lead by Ms. Pauline Braxton, NRC Reactor Inspector of the Region II Office. The team will be composed of personnel from NRC Region II Office. The inspection will be conducted in accordance with Inspection Procedure 71111.05T, dated October 28, 2011.

On February 28, 2012, during a telephone conversation between Mr. Mark Hickox, Principle Licensing Engineer, and Ms. Pauline Braxton, our respective staffs confirmed arrangements for a three-day information-gathering onsite visit and a two-week onsite inspection. The schedule for the inspection is:

- Information gathering visit: June 5-7, 2012
- Week 1 of onsite inspection: June 18-22, 2012
- Week 2 of onsite inspection: July 9-13, 2012

The purposes of the information-gathering visit are to obtain information and documentation needed to support the inspection, to become familiar with the Vogtle Electric Generating Plant fire protection program, fire protection features, post-fire safe shutdown capabilities and plant layout, mitigating strategies to address Section B.5.b of NRC Order EA-02-026, "Order for Interim Safeguards and Security Compensatory Measures," dated February 25, 2002, and Title 10 of the *Code of Federal Regulations* (10 CFR) 50.54(hh)(2); and, as necessary, obtain plant-specific site access training and badging for unescorted site access. A list of the types of documents the team may be interested in reviewing, and possibly obtaining, are listed in Enclosures 1 and 2. Please contact Ms. Pauline Braxton prior to preparing copies of the materials listed in the Enclosures. The inspection team will try to minimize your administrative burden by specifically identifying those documents required for inspection preparation.

During the information-gathering visit, the team will also discuss the following inspection support administrative details: office space size and location; specific documents requested to be made available to the team in its office spaces; arrangements for reactor site access (including

SNC, Inc.

radiation protection training, security, safety and fitness for duty requirements) so that a walkdown of the plant can be performed during the information-gathering visit; and the availability of knowledgeable plant engineering and licensing organization personnel to serve as points of contact during the inspection.

We request that during the onsite inspection week you ensure that copies of analyses, evaluations or documentation regarding the implementation and maintenance of the Vogtle Electric Generating Plant fire protection program, including post-fire safe shutdown capability, be readily accessible to the team for their review. Of specific interest for the fire protection portion of the inspection are those documents that establish that your fire protection program satisfies NRC regulatory requirements and conforms to applicable NRC and industry fire protection guidance. For the B.5.b portion of the inspection, those documents implementing your mitigating strategies and demonstrating the management of your commitments for the strategies are of specific interest. Also, personnel should be available at the site during the inspection who are knowledgeable regarding those plant systems required to achieve and maintain safe shutdown conditions from inside and outside the control room (including the electrical aspects of the relevant post-fire safe shutdown analyses), reactor plant fire protection systems and features, and the Vogtle Electric Generating Plant fire protection program and its implementation.

This letter does not contain new or amended information collection requirements subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq). Existing information collection requirements were approved by the Office of Management and Budget under control number 3150-0011. The NRC may not conduct or sponsor, and a person is not required to respond to, a request for information or an information collection requirement unless the requesting document displays a currently valid Office of Management and Budget control number.

Your cooperation and support during this inspection will be appreciated. If you have questions concerning this inspection, or the inspection team's information or logistical needs, please contact Ms. Pauline Braxton at 404-997-4440, or me at 404-997-4511.

SNC, Inc.

In accordance with 10 CFR 2.390 of the NRC's Rules of Practice, a copy of this letter and its enclosures 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).

Sincerely,

/RA/

Michael F. King, Chief
Engineering Branch 2
Division of Reactor Safety

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

Enclosures:

1. Triennial Fire Protection Program Supporting Documentation
2. Mitigating Strategies Supporting Documentation

cc w/encls:
(See next pages 4 and 5)

In accordance with 10 CFR 2.390 of the NRC's Rules of Practice, a copy of this letter and its enclosures 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).

Sincerely,

/RA/

Michael F. King, Chief
Engineering Branch 2
Division of Reactor Safety

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

Enclosures:

1. Triennial Fire Protection Program Supporting Documentation
2. Mitigating Strategies Supporting Documentation

cc w/encls:

(See next pages 4 and 5)

Distribution w/encl:

F. Ehrhardt, RII, DRP
M. Miller, RII, DRP
RIDSNNRRDIRS
PUBLIC
RidsNrrPMVogtle Resource

☒ PUBLICLY AVAILABLE ☐ NON-PUBLICLY AVAILABLE ☐ SENSITIVE ☒ NON-SENSITIVE
ADAMS: ☒ Yes ACCESSION NUMBER: ML12068A114 ☒ SUNSI REVIEW COMPLETE ☒ FORM 665 ATTACHED

OFFICE	RII:DRS/EB2	RII:DRP/BR2	RII:DRS/EB2			
SIGNATURE	/RA/	/RA/	/RA/			
NAME	P. BRAXTON	F. EHRHARDT	M. KING			
DATE	3/ 5 /2012	3/ 5 /2012	3/ 8 /2012			
E-MAIL COPY?	YES NO	YES NO	YES NO			

OFFICIAL RECORD COPY DOCUMENT NAME: S:\DRS\Eng Branch 2\REPORTS\Vogtle\VOG TFPI 2012-007\Vogtle 2012 Notification Letter_Braxton.docx

cc w/encl:

S. Kuczynski
Chairman, President and CEO
Southern Nuclear Operating Company, Inc.
Electronic Mail Distribution

D. G. Bost, Chief Nuclear Officer
Southern Nuclear Operating Company, Inc.
Electronic Mail Distribution

N. J. Stringfellow
Licensing Manager
Southern Nuclear Operating Company, Inc.
Electronic Mail Distribution

Paula Marino, Vice President
Engineering
Southern Nuclear Operating Company, Inc.
Electronic Mail Distribution

T. A. Lynch, Vice President
Joseph M. Farley Nuclear Plant
Southern Nuclear Operating Company, Inc.
Electronic Mail Distribution

Dennis R. Madison, Vice President
Edwin I. Hatch Nuclear Plant
Southern Nuclear Operating Company, Inc.
Electronic Mail Distribution

J. L. Pemberton
SVP & General Counsel-Ops & SNC
Southern Nuclear Operating Company, Inc.
Electronic Mail Distribution

T. E. Tynan
Site Vice President
Vogtle Electric Generating Plant
Southern Nuclear Operating Company, Inc.
Electronic Mail Distribution

M. J. Ajluni
Nuclear Licensing Director
Southern Nuclear Operating Company, Inc.
Electronic Mail Distribution

B. D. McKinney, Jr.
Regulatory Response Manager
Southern Nuclear Operating Company, Inc.
Electronic Mail Distribution

D. W. Daughhetee
Licensing Engineer
Southern Nuclear Operating Company, Inc.
Electronic Mail Distribution

L. Mike Stinson
Vice President
Fleet Operations Support
Southern Nuclear Operating Company, Inc.
Electronic Mail Distribution

T. D. Honeycutt
Regulatory Response Supervisor
Southern Nuclear Operating Company, Inc.
Electronic Mail Distribution

L. P. Hill
Licensing Supervisor
Southern Nuclear Operating Company, Inc.
Electronic Mail Distribution

L. L. Crumpton
Administrative Assistant, Sr.
Southern Nuclear Operating Company, Inc.
Electronic Mail Distribution

David H. Jones
Site Vice President
Vogtle Units 3 and 4
Southern Nuclear Operating Company
Electronic Mail Distribution

Hickox, T. Mark
Vogtle Electric Generating Plant
Electronic Mail Distribution

S. C. Swanson
Site Support Manager
Vogtle Electric Generating Plant
Electronic Mail Distribution

Amy Whaley
Resident Manager
Electronic Mail Distribution

cc w/encl (cont'd next page)

cc w/encl (cont'd from page 4)
 Senior Resident Inspector
 U.S. Nuclear Regulatory Commission
 Vogtle Electric Generating Plant
 7821 River Road
 Waynesboro, GA 30830

Arthur H. Domby, Esq.
 Troutman Sanders
 Electronic Mail Distribution

Sandra Threatt, Manager
 Nuclear Response and Emergency
 Environmental Surveillance
 Bureau of Land and Waste Management
 Dept of Health and Environmental Control
 Electronic Mail Distribution

Division of Radiological Health
 TN Dept. of Environment & Conservation
 401 Church Street
 Nashville, TN 37243-1532

Richard Haynes
 Director, Division of Waste Management
 Bureau of Land and Waste Management
 S.C. Department of Health & Environmental
 Control
 2600 Bull Street
 Columbia, SC 29201

Lee Foley
 Manager of Contracts Generation
 Oglethorpe Power Corporation
 Electronic Mail Distribution

Mark Williams
 Commissioner
 Georgia Department of Natural Resources
 Electronic Mail Distribution

Judson H. Turner
 Director
 Environmental Protection Division
 Georgia Department of Natural Resources
 Electronic Mail Distribution

Office of the Attorney General
 40 Capitol Square, SW
 Atlanta, GA 30334

Cynthia A. Sanders
 Radioactive Materials Program Manager
 Environmental Protection Division
 Georgia Department of Natural Resources
 Electronic Mail Distribution

James A. Capp
 Program Coordination Branch Chief
 Environmental Protection Division
 Georgia Department of Natural Resources
 Electronic Mail Distribution

James C. Hardeman
 Environmental Radiation Program Manager
 Environmental Protection Division
 Georgia Department of Natural Resources
 Electronic Mail Distribution

Al Frazier
 Emergency Response and Radiation
 Program Manager
 Environmental Protection Division
 Georgia Department of Natural Resources
 Electronic Mail Distribution

Mr. Steven M. Jackson
 Senior Engineer - Power Supply
 Municipal Electric Authority of Georgia
 Electronic Mail Distribution

Reece McAlister
 Executive Secretary
 Georgia Public Service Commission
 Electronic Mail Distribution

Office of the County Commissioner
 Burke County Commission
 Electronic Mail Distribution

Director
 Consumers' Utility Counsel Division
 Governor's Office of Consumer Affairs
 2 M. L. King, Jr. Drive
 Plaza Level East; Suite 356
 Atlanta, GA 30334-4600

Triennial Fire Protection Program Supporting Documentation

Note: This is a broad list of the documents the NRC inspection team may be interested in reviewing, and possibly obtaining, during the information-gathering site visit. The current version of these documents is expected unless specified otherwise. Electronic media is preferred, if readily available. (The preferred file format is searchable “.pdf” files on CDROM. The CDROM should be indexed and hyperlinked to facilitate ease of use. Please provide 5 copies of each CDROM submitted.) Information in “lists” should contain enough information to be easily understood by someone who has knowledge of the technology. The lead inspector will discuss specific information needs with the licensee staff and may request additional documents.

1. The current version of the fire protection program and fire hazards analysis.
2. Corrective action closeouts as part of operator manual actions corrective actions.
3. List of identified fire induced circuit failure configurations for select fire areas.
4. Corrective actions for fire-induced circuit failures, both single and multiple spurious actuations for select fire areas.
5. Cable routing for components and equipment credited for safe shutdown for select fire areas.
6. List of protected safe shutdown train equipment for select fire areas.
7. Current versions of the fire protection program implementing procedures (e.g., administrative controls, surveillance testing, and fire brigade).
8. Fire brigade training program and pre-fire plans.
9. Post-fire safe shutdown systems and separation analysis.
10. Post-fire alternative shutdown analysis.
11. Piping and instrumentation diagrams showing the components used to achieve and maintain hot standby and cold shutdown for fires outside the control room and those components used for those areas requiring alternative shutdown capability.
12. Plant layout and equipment drawings which identify the physical plant locations of hot standby and cold shutdown equipment.
13. Plant layout drawings which identify plant fire area delineation, areas protected by automatic fire suppression and detection, and the locations of fire protection equipment.
14. Plant layout drawings which identify the general location of the post-fire emergency lighting.

15. Plant operating procedures which would be used and describe shutdown from inside the control room with a postulated fire occurring in any plant area outside the control room, procedures which would be used to implement alternative shutdown capability in the event of a fire in the control or cable spreading room.
16. Maintenance and surveillance testing procedures for alternative shutdown capability and fire barriers, detectors, pumps, and suppression systems.
17. Maintenance procedures which routinely verify fuse breaker coordination in accordance with the post-fire safe shutdown coordination analysis.
18. A list of significant fire protection and post-fire safe shutdown related design change packages and evaluations according to Generic Letter 86-10, "Implementation of Fire Protection Requirements."
19. The reactor plant's Individual Plant Examination for External Events (IPEEE), results of any post-IPEEE reviews, and listings of actions taken/plant modifications conducted in response to IPEEE information.
20. Organization charts of site personnel (including fire protection staff personnel).
21. If applicable, drawings of potential reactor coolant/recirculation pump lube oil system leakage points and associated lube oil collection systems.
22. Licensing basis documents for fire protection (safety evaluation reports, pertinent sections of the final safety analysis report, exemptions, deviations, letters to/from the NRC regarding fire protection/fire safe shutdown, etc.).
23. Procedures/instructions that control the configuration of the plant's fire protection program, features, and post-fire safe shutdown methodology and system design.
24. A list of applicable codes and standards related to the design of plant fire protection features and evaluations of code deviations.
25. Procedures/instructions that govern the implementation of plant modifications, maintenance, and special operations, and their impact on fire protection.
26. Internal and external self-assessments, audits, peer-assessments or similar reviews related to post-fire safe shutdown capability or the fire protection program completed since the previous NRC fire protection triennial inspection.
27. Recent quality assurance surveillances of fire protection activities.
28. A listing of open and closed fire protection condition reports (problem reports/nuclear condition reports/event analysis reports/problem identification and resolution reports) since the last triennial inspection.

Mitigating Strategies Supporting Documentation

Note: This is a broad list of the documents the NRC inspection team may be interested in reviewing, and possibly obtaining, during the information gathering site visit. The current version of these documents is expected unless specified otherwise. Electronic media is preferred, if readily available. (The preferred file format is searchable “.pdf” files on CDROM. The CDROM should be indexed and hyperlinked to facilitate ease of use. Please provide 5 copies of each CDROM submitted.) Information in “lists” should contain enough information to be easily understood by someone who has knowledge of the technology. The lead inspector will discuss specific information needs with the licensee staff and may request additional documents.

1. A list of all modifications to regulatory commitments made to meet the requirements of Section B.5.b of NRC Order, EA-02-026, “Order for NRC Interim Safeguards and Security Compensatory Measures,” dated February 25, 2002, the subsequently imposed license conditions, and Title 10 of the *Code of Federal Regulations* (10 CFR) 50.54(hh)(2).
2. Lists of procedures/guidelines that were revised or generated to implement the mitigation strategies. These could be extensive damage mitigation guidelines (EDMGs), severe accident management guidelines (SAMGs), emergency operating procedures (EOPs), abnormal operating procedures (AOPs), etc.
3. A matrix that shows the correlation between the mitigation strategies identified in Nuclear Energy Institute 06-12, Revision 2, “B.5.b Phase 2 & 3 Submittal Guideline,” issued December 2006, and the site-specific procedures or guidelines used to implement each strategy.
4. Engineering evaluations/calculations that were used to verify engineering bases for the mitigation strategies.
5. Piping and instrumentation diagram for systems relied upon in the mitigation strategies. These could be of the type used for training.
6. A list of modification packages or simplified drawings or descriptions of modifications that were made to plant systems to implement the mitigation strategies.
7. Copies of procedures used to inventory equipment (hoses, fittings, pumps, etc.) required to implement the mitigation strategies.
8. A list of B.5.b strategies, if any, that have implementing details that differ from those documented in the submittals and the safety evaluation report.
9. A copy of site general arrangement drawing(s) that show the majority of buildings/areas referenced in B.5.b documents.
10. Training records, training matrix, and lesson plans related to B.5.b.
11. Copies of memoranda of understanding (e.g., with local fire departments) required to implement any mitigating strategies.