



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION II  
SAM NUNN ATLANTA FEDERAL CENTER  
61 FORSYTH STREET, SW, SUITE 23T85  
ATLANTA, GEORGIA 30303-8931

August 31, 2006

Southern Nuclear Operating Company, Inc.  
ATTN: Mr. D. E. Grissette,  
Vice President - Vogtle Project  
P. O. Box 1295  
Birmingham, AL 35201-1295

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN - VOGTLE  
ELECTRIC GENERATING PLANT

Dear Mr. Grissette:

On August 3, 2006, the NRC staff completed its performance review of the Vogtle Electric Generating Plant for the first half of the calendar year 2006 assessment cycle. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results over the previous twelve months. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

This performance review and the enclosed inspection plan do not include physical protection information. A separate letter, designated and marked as "Exempt from Public Disclosure in Accordance with 10 CFR 2.390," will include the physical protection review and a resultant inspection plan.

Overall, Vogtle Units 1 and 2 operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for Vogtle Units 1 and 2 for the most recent quarter was in the Licensee Response Column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility. In addition to the baseline inspections, we plan to conduct non-ROP inspections involving containment sump blockage, Reactor Pressure Vessel Penetration Nozzles, and verification of Mitigating System Performance Index. A preliminary White finding associated with the Emergency Preparedness Cornerstone was sent to you on June 20, 2006. Based upon the final significance determination, additional inspection activities may be warranted for Units 1 and 2.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through March 31, 2008. The inspection plan is provided to minimize the resource impact on your staff and to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last twelve months of the inspection plan are tentative and may be revised at the end-of-cycle review meeting.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made available electronically for public inspection in the NRC Public

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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).

If circumstances arise which cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at (404) 562-4521 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA/**

Scott M. Shaeffer, Chief  
Reactor Projects Branch 2  
Division of Reactor Projects

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

Enclosure: Vogtle Inspection/Activity Plan

cc w/encl: (See page 3)

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cc w/encl:  
J. T. Gasser  
Executive Vice President  
Southern Nuclear Operating Company, Inc.  
Electronic Mail Distribution

T. E. Tynan  
General Manager, Plant Vogtle  
Southern Nuclear Operating Company, Inc.  
Electronic Mail Distribution

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

Bentina C. Terry  
Southern Nuclear Operating Company, Inc.  
Bin B-022  
P. O. Box 1295  
Birmingham, AL 35201-1295

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

Office of the County Commissioner  
Burke County Commission  
Waynesboro, GA 30830

Director, Department of Natural Resources  
205 Butler Street, SE, Suite 1252  
Atlanta, GA 30334

Manager, Radioactive Materials Program  
Department of Natural Resources  
Electronic Mail Distribution

Attorney General  
Law Department  
132 Judicial Building  
Atlanta, GA 30334

Laurence Bergen  
Oglethorpe Power Corporation  
Electronic Mail Distribution

Resident Manager  
Oglethorpe Power Corporation  
Alvin W. Vogtle Nuclear Plant  
Electronic Mail Distribution

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

Senior Engineer - Power Supply  
Municipal Electric Authority  
of Georgia  
Electronic Mail Distribution

Reece McAlister  
Executive Secretary  
Georgia Public Service Commission  
244 Washington Street, SW  
Atlanta, GA 30334

**Vogle**  
**Inspection / Activity Plan**  
**09/01/2006 - 03/31/2008**

| Unit Number | Inspection Activity  | Title  | No. of Staff on Site | Planned Dates Start | Planned Dates End | Inspection Type      |
|-------------|--|--|----------------------|---------------------|-------------------|----------------------|
|             | <b>PSB1-RP - RP OCCUPATIONAL BASELINE WEEK 1</b>           |  | <b>3</b>             |                     |                   |                      |
| 1,2         | IP 7112101   | Access Control to Radiologically Significant Areas                                 |                      | 09/18/2006          | 09/22/2006        | Baseline Inspections |
| 1,2         | IP 7112102   | ALARA Planning and Controls  |                      | 09/18/2006          | 09/22/2006        | Baseline Inspections |
| 1,2         | IP 7112202   | Radioactive Material Processing and Transportation                                 |                      | 09/18/2006          | 09/22/2006        | Baseline Inspections |
| 1,2         | IP 71151   | Performance Indicator Verification   |                      | 09/18/2006          | 09/22/2006        | Baseline Inspections |
|             | <b>PB2TI169 - MSPI VERIFICATION</b>                        |  | <b>2</b>             |                     |                   |                      |
| 1,2         | IP 2515/169  | Mitigating Systems Performance Index Verification                                  |                      | 10/01/2006          | 12/31/2006        | Safety Issues        |
|             | <b>EB3-ISI - UNIT 1 INSERVICE INSPECTION</b>               |  | <b>1</b>             |                     |                   |                      |
| 1           | IP 7111108P  | Inservice Inspection Activities - PWR  |                      | 10/02/2006          | 10/06/2006        | Baseline Inspections |
|             | <b>EB3TI150 - 2515/150 UNIT 1: RPV &amp; VHP NOZZLES</b>   |  | <b>1</b>             |                     |                   |                      |
| 1           | IP 2515/150  | Reactor Pressure Vessel Head and Vessel Head Penetration Nozzles (NRC ORDER EA-03- |                      | 10/02/2006          | 10/06/2006        | Safety Issues        |
|             | <b>PSB1-RP - RP OCCUPATIONAL BASELINE WEEK 2</b>           |  | <b>2</b>             |                     |                   |                      |
| 1,2         | IP 7112101   | Access Control to Radiologically Significant Areas                                 |                      | 10/02/2006          | 10/06/2006        | Baseline Inspections |
| 1,2         | IP 7112102   | ALARA Planning and Controls  |                      | 10/02/2006          | 10/06/2006        | Baseline Inspections |
| 1,2         | IP 7112202   | Radioactive Material Processing and Transportation                                 |                      | 10/02/2006          | 10/06/2006        | Baseline Inspections |
| 1,2         | IP 71151   | Performance Indicator Verification   |                      | 10/02/2006          | 10/06/2006        | Baseline Inspections |
|             | <b>EB3SGISI - UNIT 1 STEAM GENERATOR ISI</b>               |  | <b>1</b>             |                     |                   |                      |
| 1           | IP 7111108P  | Inservice Inspection Activities - PWR  |                      | 10/10/2006          | 10/13/2006        | Baseline Inspections |
|             | <b>EB1-SUMP - PWR CONTAINMENT SUMP BLOCKAGE TI (U-1)</b>   |  | <b>1</b>             |                     |                   |                      |
| 1           | IP 2515/166  | Pressurized Water Reactor Containment Sump Blockage [NRC GENERIC LETTER 2004-02    |                      | 10/15/2006          | 10/20/2006        | Safety Issues        |
|             | <b>PB2-PI&amp;R - BIENNIAL PI&amp;R PROGRAM INSPECTION</b> |  | <b>4</b>             |                     |                   |                      |
| 1,2         | IP 71152B  | Identification and Resolution of Problems  |                      | 01/29/2007          | 02/02/2007        | Baseline Inspections |
| 1,2         | IP 71152B  | Identification and Resolution of Problems  |                      | 02/12/2007          | 02/16/2007        | Baseline Inspections |
|             | <b>EB1-MODS - MODIFICATIONS - 10CFR50.59</b>               |  | <b>3</b>             |                     |                   |                      |
| 1,2         | IP 7111102   | Evaluation of Changes, Tests, or Experiments                                       |                      | 01/22/2007          | 01/26/2007        | Baseline Inspections |
| 1,2         | IP 7111117B  | Permanent Plant Modifications  |                      | 01/22/2007          | 01/26/2007        | Baseline Inspections |
|             | <b>EB3-ISI - UNIT 2 INSERVICE INSPECTION</b>               |  | <b>1</b>             |                     |                   |                      |
| 2           | IP 7111108P  | Inservice Inspection Activities - PWR  |                      | 03/12/2007          | 03/16/2007        | Baseline Inspections |
|             | <b>EB3SGISI - UNIT 2 STEAM GENERATOR ISI</b>               |  | <b>1</b>             |                     |                   |                      |
| 2           | IP 7111108P  | Inservice Inspection Activities - PWR  |                      | 03/19/2007          | 03/23/2007        | Baseline Inspections |
|             | <b>EB3TI150 - 2515/150 UNIT 2: RPV &amp; VHP NOZZLES</b>   |  | <b>2</b>             |                     |                   |                      |
| 2           | IP 2515/150  | Reactor Pressure Vessel Head and Vessel Head Penetration Nozzles (NRC ORDER EA-03- |                      | 03/19/2007          | 03/23/2007        | Safety Issues        |
|             | <b>PS2-EP - EMERGENCY PREPAREDNESS INSPECTION</b>          |  | <b>1</b>             |                     |                   |                      |
| 1,2         | IP 7111402   | Alert and Notification System Testing  |                      | 03/19/2007          | 03/23/2007        | Baseline Inspections |
| 1,2         | IP 7111403   | Emergency Response Organization Augmentation Testing                               |                      | 03/19/2007          | 03/23/2007        | Baseline Inspections |

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

Enclosure

**Vogle**  
**Inspection / Activity Plan**  
**09/01/2006 - 03/31/2008**

| Unit Number | Inspection Activity | Title   | No. of Staff on Site | Planned Dates Start | Planned Dates End | Inspection Type      |
|-------------|---------------------|---|----------------------|---------------------|-------------------|----------------------|
|             | <b>PS2-EP</b>       | <b>- EMERGENCY PREPAREDNESS INSPECTION</b>  | <b>1</b>             |                     |                   |                      |
| 1,2         | IP 7111404          | Emergency Action Level and Emergency Plan Changes                                       |                      | 03/19/2007          | 03/23/2007        | Baseline Inspections |
| 1,2         | IP 7111405          | Correction of Emergency Preparedness Weaknesses and Deficiencies                        |                      | 03/19/2007          | 03/23/2007        | Baseline Inspections |
| 1,2         | IP 71151            | Performance Indicator Verification  |                      | 03/19/2007          | 03/23/2007        | Baseline Inspections |
|             | <b>EB1-SUMP</b>     | <b>- PWR CONTAINMENT SUMP BLOCKAGE TI (U-2)</b>   | <b>1</b>             |                     |                   |                      |
| 2           | IP 2515/166         | Pressurized Water Reactor Containment Sump Blockage [NRC GENERIC LETTER 2004-02]        |                      | 04/01/2007          | 04/06/2007        | Safety Issues        |
|             | <b>EB1-CDB</b>      | <b>- COMPONENT DESIGN BASES INSPECTION</b>  | <b>5</b>             |                     |                   |                      |
| 1,2         | IP 7111121          | Component Design Bases Inspection   |                      | 04/09/2007          | 04/13/2007        | Baseline Inspections |
| 1,2         | IP 7111121          | Component Design Bases Inspection   |                      | 04/23/2007          | 04/27/2007        | Baseline Inspections |
| 1,2         | IP 7111121          | Component Design Bases Inspection   |                      | 05/07/2007          | 05/11/2007        | Baseline Inspections |
| 1,2         | IP 7111121          | Component Design Bases Inspection   |                      | 05/21/2007          | 05/25/2007        | Baseline Inspections |
|             | <b>PSB1-RP</b>      | <b>- RP PUBLIC PRE-INSPECTION VISIT</b>   | <b>1</b>             |                     |                   |                      |
| 1,2         | IP 7112101          | Access Control to Radiologically Significant Areas                                      |                      | 07/16/2007          | 07/18/2007        | Baseline Inspections |
|             | <b>OL PREP</b>      | <b>- INITIAL EXAM PREPARATION</b>   | <b>3</b>             |                     |                   |                      |
| 1           | V23264              | VOGTLE/AUGUST 2007 EXAM AT POWER FACILITIES   |                      | 07/16/2007          | 07/20/2007        | Not Applicable       |
|             | <b>OL EXAM</b>      | <b>- INITIAL EXAM</b>   | <b>3</b>             |                     |                   |                      |
| 1           | V23264              | VOGTLE/AUGUST 2007 EXAM AT POWER FACILITIES   |                      | 08/06/2007          | 08/17/2007        | Not Applicable       |
|             | <b>PSB1-RP</b>      | <b>- RP PUBLIC BASELINE INSPECTION</b>  | <b>4</b>             |                     |                   |                      |
| 1,2         | IP 7112101          | Access Control to Radiologically Significant Areas                                      |                      | 08/20/2007          | 08/24/2007        | Baseline Inspections |
| 1,2         | IP 7112103          | Radiation Monitoring Instrumentation and Protective Equipment                           |                      | 08/20/2007          | 08/24/2007        | Baseline Inspections |
| 1,2         | IP 7112201          | Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems                |                      | 08/20/2007          | 08/24/2007        | Baseline Inspections |
| 1,2         | IP 7112203          | Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P |                      | 08/20/2007          | 08/24/2007        | Baseline Inspections |
| 1,2         | IP 71151            | Performance Indicator Verification  |                      | 08/20/2007          | 08/24/2007        | Baseline Inspections |
|             | <b>EB2-TFP</b>      | <b>- TRIENNIAL FIRE PROTECTION - INFO TRIP</b>  | <b>5</b>             |                     |                   |                      |
| 1,2         | IP 7111105T         | Fire Protection [Triennial]   |                      | 09/11/2007          | 09/13/2007        | Baseline Inspections |
|             | <b>OL RQ</b>        | <b>- REQUALIFICATION INSPECTION</b>   | <b>2</b>             |                     |                   |                      |
| 1,2         | IP 7111111B         | Licensed Operator Requalification Program   |                      | 09/17/2007          | 09/21/2007        | Baseline Inspections |
|             | <b>EB2-TFP</b>      | <b>- TRIENNIAL FIRE PROTECTION INSPECTION</b>   | <b>5</b>             |                     |                   |                      |
| 1,2         | IP 7111105T         | Fire Protection [Triennial]   |                      | 10/01/2007          | 10/05/2007        | Baseline Inspections |
| 1,2         | IP 7111105T         | Fire Protection [Triennial]   |                      | 10/15/2007          | 10/19/2007        | Baseline Inspections |
|             | <b>EB3-HS</b>       | <b>- HEAT SINK INSPECTION</b>   | <b>1</b>             |                     |                   |                      |
| 1,2         | IP 7111107B         | Heat Sink Performance   |                      | 01/28/2008          | 02/01/2008        | Baseline Inspections |
|             | <b>EB3-ISI</b>      | <b>- UNIT 1 INSERVICE INSPECTION</b>  | <b>1</b>             |                     |                   |                      |
| 1           | IP 7111108P         | Inservice Inspection Activities - PWR   |                      | 03/17/2008          | 03/21/2008        | Baseline Inspections |

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