



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
SAM NUNN ATLANTA FEDERAL CENTER  
61 FORSYTH STREET, SW, SUITE 23T85  
ATLANTA, GEORGIA 30303-8931

March 4, 2009

Mr. Dennis R. Madison  
Vice President  
Southern Nuclear Operating Company, Inc.  
Edwin I. Hatch Nuclear Plant  
11028 Hatch Parkway North  
Baxley, GA 31513

SUBJECT: ANNUAL ASSESSMENT LETTER - EDWIN I. HATCH NUCLEAR PLANT  
(NRC INSPECTION REPORT 05000321/2009001 AND 05000366/2009001)

Dear Mr. Madison:

On February 10, 2009, the NRC staff completed its performance review of the Edwin I. Hatch Nuclear Plant. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2008. 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 enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only - Security Related Information" will include the Security Cornerstone performance review and resultant inspection plan.

Overall, Hatch Units 1 and 2 operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance at Unit 1 for the most recent quarter as well as the previous three quarters was within 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 for Unit 1.

Plant performance at Unit 2 for the most recent quarter as well as the previous three quarters was within the Regulatory Response column of the NRC's Action Matrix based on a Mitigating System Performance Index (MSPI) - High Pressure Injection Systems PI which crossed the threshold from Green to White in the second quarter of 2007. The NRC completed a supplemental inspection in accordance with Inspection Procedure 95001, "Inspection for One or Two White Inputs in a Strategic Performance Area," in the first quarter of 2008. Therefore, we plan to conduct ROP baseline inspections at Unit 2.

The significance of a 1B Emergency Diesel Generator coupling failure is still under NRC review as part of the Significance Determination Process which, when finalized, may change the current assessment of your plant's safety performance.

In addition to ROP baseline inspections, we also plan on performing NRC Temporary Instruction (TI) 2515/173, Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative, and conducting reactor operator licensing examinations.

The enclosed inspection plan details the inspections, less those related to security, scheduled through June 30, 2010. The inspection plan is provided 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 nine months of the inspection plan are tentative and may be revised at the mid-cycle review.

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 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 this inspection plan, we will contact you to discuss the change as soon as possible. Please contact Scott Shaeffer at (404) 562-4521 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

*/RA/*

Leonard D. Wert, Jr., Director  
Division of Reactor Projects

Docket Nos.: 50-321, 50-366  
Licensee Nos.: DPR-57, NPF-5

Enclosure: Hatch Inspection/ Activity Plan

cc w/encl: (See page 3)

cc w/encl:  
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**Hatch**  
**Inspection / Activity Plan**  
**03/01/2009 - 06/30/2010**

| Unit Number | Planned Dates |            | Inspection Activity                                      | Title   | No. of Staff on Site |
|-------------|---------------|------------|--|---|----------------------|
|             | Start         | End        |  |   |                      |
|             |               |            | <b>OL EXAM - INITIAL EXAM PREP</b>                       |   | <b>6</b>             |
| 1           | 03/30/2009    | 04/03/2009 | V23311   | HATCH/APRIL 2009 EXAM AT POWER FACILITIES   |                      |
|             |               |            | <b>OL EXAM - INITIAL EXAM - WEEK 1</b>                   |   | <b>4</b>             |
| 1           | 04/20/2009    | 04/24/2009 | V23311   | HATCH/APRIL 2009 EXAM AT POWER FACILITIES   |                      |
|             |               |            | <b>EB1-CDBI - COMPONENT DESIGN BASIS INSPECTION</b>      |   | <b>9</b>             |
| 1,2         | 04/20/2009    | 04/24/2009 | IP 7111121   | Component Design Bases Inspection   |                      |
| 1,2         | 05/04/2009    | 05/08/2009 | IP 7111121   | Component Design Bases Inspection   |                      |
| 1,2         | 05/18/2009    | 05/22/2009 | IP 7111121   | Component Design Bases Inspection   |                      |
| 1,2         | 06/01/2009    | 06/05/2009 | IP 7111121   | Component Design Bases Inspection   |                      |
|             |               |            | <b>OL EXAM - INITIAL EXAM - WEEK 2</b>                   |   | <b>4</b>             |
| 1           | 04/27/2009    | 05/01/2009 | V23311   | HATCH/APRIL 2009 EXAM AT POWER FACILITIES   |                      |
|             |               |            | <b>PI&amp;R - PRE INSPECTION</b>                         |   | <b>1</b>             |
| 1,2         | 08/31/2009    | 09/04/2009 | IP 71152B  | Identification and Resolution of Problems   |                      |
|             |               |            | <b>PI&amp;R - PROBLEM IDENTIFICATION AND RESOLUTION</b>  |   | <b>6</b>             |
| 1,2         | 10/05/2009    | 10/09/2009 | IP 71152B  | Identification and Resolution of Problems   |                      |
| 1,2         | 10/19/2009    | 10/23/2009 | IP 71152B  | Identification and Resolution of Problems   |                      |
|             |               |            | <b>OL EXAM - INITIAL EXAM PREP</b>                       |   | <b>7</b>             |
| 1           | 10/05/2009    | 10/09/2009 | V23320   | HATCH/OCTOBER 2009 EXAM AT POWER FACILITIES   |                      |
|             |               |            | <b>PSB1EP - EMERGENCY PREPAREDNESS EXERCISE</b>          |   | <b>3</b>             |
| 1,2         | 10/12/2009    | 10/16/2009 | IP 7111401   | Exercise Evaluation   |                      |
| 1,2         | 10/12/2009    | 10/16/2009 | IP 7111404   | Emergency Action Level and Emergency Plan Changes   |                      |
| 1,2         | 10/12/2009    | 10/16/2009 | IP 71151   | Performance Indicator Verification  |                      |
|             |               |            | <b>OL EXAM - INITIAL EXAM - WEEK 1</b>                   |   | <b>5</b>             |
| 1           | 10/26/2009    | 10/30/2009 | V23320   | HATCH/OCTOBER 2009 EXAM AT POWER FACILITIES   |                      |
|             |               |            | <b>OL EXAM - INITIAL EXAM - WEEK 2</b>                   |   | <b>5</b>             |
| 1           | 11/02/2009    | 11/06/2009 | V23320   | HATCH/OCTOBER 2009 EXAM AT POWER FACILITIES   |                      |
|             |               |            | <b>PSB1-RP - RP PUBLIC RADIATION PROTECTION BASELINE</b> |   | <b>3</b>             |
| 1,2         | 01/25/2010    | 01/29/2010 | IP 7112103   | Radiation Monitoring Instrumentation and Protective Equipment                                 |                      |
| 1,2         | 01/25/2010    | 01/29/2010 | IP 7112201   | Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems                      |                      |
| 1,2         | 01/25/2010    | 01/29/2010 | IP 7112203   | Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program |                      |
| 1,2         | 01/25/2010    | 01/29/2010 | IP 71151   | Performance Indicator Verification  |                      |
|             |               |            | <b>PSB1-RP - RP GROUNDWATER PROTECTION</b>               |   | <b>1</b>             |
| 1,2         | 02/01/2010    | 02/05/2010 | IP 2515/173  | Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative     |                      |
|             |               |            | <b>EB3 HS - HEAT SINK INSPECTION</b>                     |   | <b>1</b>             |
| 1,2         | 02/22/2010    | 02/26/2010 | IP 7111107T  | Heat Sink Performance   |                      |

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

Enclosure

**Hatch**  
**Inspection / Activity Plan**  
**03/01/2009 - 06/30/2010**

| Unit Number                                | Planned Dates |            | Inspection Activity | Title   | No. of Staff on Site |
|--|---------------|------------|---------------------|---|----------------------|
|  | Start         | End        |                     |   |                      |
| <b>PSB1-RP - RP ACCESS CONTROLS</b>        |               |            |                     |   |                      |
| 1,2  | 03/08/2010    | 03/12/2010 | IP 7112101          | Access Control to Radiologically Significant Areas                              | 1                    |
| <b>EB1-MODS - MODIFICATIONS-10CFR50.59</b> |               |            |                     |   |                      |
| 1,2  | 05/17/2010    | 05/21/2010 | IP 7111117T         | Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications | 2                    |
| 1,2  | 05/24/2010    | 05/28/2010 | IP 7111117T         | Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications |                      |

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

Enclosure

## 07200036 - SOUTHERN NUCLE

## Inspection / Activity Plan

03/01/2009 - 06/30/2010

| Unit Number | Planned Dates |            | Inspection Activity                            | Title  | No. of Staff on Site |
|-------------|---------------|------------|--|--|----------------------|
|             | Start         | End        |  |  |                      |
|             |               |            | <b>ISFSI - ISFSI PREOPERATIONAL INSPECTION</b> |  |                      |
| 1           | 06/01/2009    | 07/15/2009 | IP 60854                                       | Preoperational Testing Of An ISFSI                             | 1                    |
|             |               |            | <b>ISFSI - ISFSI PAD CONSTRUCTION</b>          |  |                      |
| 1           | 04/01/2010    | 06/30/2010 | IP 60853                                       | On-Site Fabrication Of Components And Construction On An ISFSI | 2                    |

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

Enclosure