



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

March 4, 2011

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  
(REPORT 05000321/2011001 AND 05000366/2011001)**

Dear Mr. Madison:

On February 8, 2011, the NRC staff completed its end-of-cycle performance review of the Edwin I. Hatch Nuclear Plant. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2010, through December 31, 2010. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

The NRC determined that overall, Hatch Unit 1 and Unit 2 operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Hatch Unit 1 and Unit 2 for the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

Performance at Hatch Unit 2 was in the Degraded Cornerstone column of the NRC's Action Matrix for the first three quarters of the assessment cycle. In accordance with Manual Chapter 0305, "Operating Reactor Assessment Program," a supplemental inspection (Inspection Procedure 95002, "Supplemental Inspection for One Degraded Cornerstone or Any Three White Inputs in a Strategic Performance Area") was completed in the third quarter 2010 (IR 05000321/2010007 AND 05000366/2010007, ML102670412). No significant issues were identified. Therefore, Unit 2 transitioned to the Licensee Response column on October 1, 2010.

The enclosed inspection plan lists the inspections scheduled through June 30, 2012. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the mid-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. We also plan on conducting Operator Licensing Examinations, Component Design Basis Inspection, and TI 2515/177, "Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems (NRC Generic Letter 2008-01)."

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.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) 997-4521 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

*/RA/*

Victor M. McCree  
Regional Administrator

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

Enclosure: Hatch Inspection/Activity Plan (01/01/2011 – 06/30/2012)

cc w/encl: (See page 3)

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Victor M. McCree  
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cc w/encl: (See page 3)

X PUBLICLY AVAILABLE       NON-PUBLICLY AVAILABLE       SENSITIVE      X NON-SENSITIVE  
ADAMS:  Yes      ACCESSION NUMBER: \_\_\_\_\_       SUNSI REVIEW COMPLETE

OFFICE	RII:DRP	RII:DRP	RII:DRP	RII:DRP	RII:ORA	RII:ORA	
SIGNATURE	SDR /RA for/	SDR /RA/	SMS /RA/	RXC /RA/		VMM /RA/	
NAME	TLighty	SRose	SShaeffler	RCroteau	LWert	VMcCree	
DATE	03/01/2011	03/01/2011	03/02/2011	03/02/2011		03/03/2011	
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	

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(cc w/encl continued next page)

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(cc w/encl continued)

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Letter to Dennis R. Madison from Victor M. McCree dated March 4, 2011

SUBJECT: ANNUAL ASSESSMENT LETTER - EDWIN I. HATCH NUCLEAR PLANT  
(NRC INSPECTION REPORT 05000321/2011001 AND 05000366/2011001)

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Institute of Nuclear Power Operations (INPO)