



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

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

August 31, 2007

Southern Nuclear Operating Company, Inc.  
ATTN: Mr. Dennis R. Madison  
Vice President, Hatch  
Edwin I. Hatch Nuclear Plant  
11208 Hatch Parkway North  
Baxley, GA 31513

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN - EDWIN I.  
HATCH NUCLEAR PLANT

Dear Mr. Madison:

On August 15, 2007, the NRC staff completed its performance review of the Edwin I. Hatch Nuclear Plant for the first half of the calendar year 2007 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, Hatch Unit 1 and Unit 2 operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for 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. Therefore, the NRC plans to conduct only baseline inspections at Unit 1 through March 31, 2009. In addition we plan to conduct non-ROP activities involving initial reactor operator examinations for both Unit 1 and Unit 2.

Plant performance for Unit 2 for the previous three quarters was within the Licensee response Column of the NRC's Action Matrix. However, the Mitigating Systems Performance Index High Pressure Injection System PI crossed the threshold from Green to White in the second quarter of calendar year 2007. This White PI resulted in Unit 2 moving into the Regulatory Response Column of the NRC's Action Matrix which reflected performance at a level requiring increased regulatory response. Therefore, in addition to the reactor oversight process (ROP) baseline inspection program at your facility, the NRC plans to conduct a supplemental inspection in accordance with Inspection Procedure 95001, "Inspection for One or Two White Inputs In a Strategic Performance Area," when you have informed us of your readiness.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through March 31, 2009. 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 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).

The NRC is currently evaluating the scope and frequency of all baseline inspection procedures. If the results of this evaluation, or any other circumstances, cause us to change the inspection plan, we will contact you to discuss the changes as soon as possible. Please contact Scott Shaeffer to (404) 562-4521 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

*/RA/*

Charles A. Casto, Director  
Division of Reactor Projects

Docket No.: 50-321, 50-366  
Licensee No.: DPR-57 and NPF-5

Enclosure: Inspection/Activity Plan

cc w/encl: (See page 3)

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Charles A. Casto, Director  
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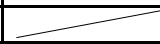
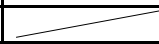
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X PUBLICLY AVAILABLE       NON-PUBLICLY AVAILABLE       SENSITIVE      X NON-SENSITIVE

ADAMS: X Yes      ACCESSION NUMBER: \_\_\_\_\_

OFFICE	RII:DRP	RII:DRP	RII:DRP	RII:DRP			
SIGNATURE	SMS /RA/			CAC /RA/			
NAME	SShaeffer	GWilson	HChristensen	CCasto			
DATE	08/30/2007			08/30/2007			
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

SNC

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cc w/encls:

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SNC

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Letter to Dennis R. Madison from Charles A. Casto dated August 31, 2007

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HATCH NUCLEAR PLANT

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