



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

September 2, 2008

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

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

Dear Mr. Madison:

On August 12, 2008, the NRC staff completed its performance review of Edwin I. Hatch Nuclear Plant for the first half of the 2008 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 enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only – Security Related Information" will include the Physical Protection/Security cornerstone performance review and resultant inspection plan.

Plant performance for the most recent quarter at Hatch Unit 1 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 at Unit 1.

Plant performance for the most recent quarter at Hatch Unit 2 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", on March 6, 2008. Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at Unit 2. We also plan on conducting several non-ROP inspections

including emergency diesel generator technical specification surveillance requirements (Temporary Instruction (TI) 2515/176), site specific implementation of B.5.b phase 2 and 3 mitigation strategies (TI 2515/171), and Emergency Plan PI assessment.

In addition, TI 2515/173, Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative, will be performed at your facility prior to August 30, 2010. In the near term, we will contact you to assess your readiness for this inspection and then finalize our schedule accordingly.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 2009. 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 end-of-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 the inspection plan, we will contact you to discuss the change as soon as possible. Please contact Scott Shaffer 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 No.: 50-321, 50-366
License No.: DPR-57, NPF-5

Enclosure: Edwin I. Hatch Nuclear Plant Inspection/Activity Plan

cc w/encl: (See page 3)

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cc w/encl: (See page 3)

X PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE X NON-SENSITIVE
ADAMS: X Yes ACCESSION NUMBER: _____ X SUNSI REVIEW COMPLETE */SMS/*

OFFICE	RII:DRP	RII:DRP	RII:DRP	RII:DRP			
SIGNATURE	SMS /RA for/	SMS /RA/					
NAME	TLighty	SShaeffe	JMoonan	LWert			
DATE	08/29/2008	08/29/2008		09/02/2008			
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

cc w/encl:

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4

Letter to Dennis R. Madison from Leonard D. Wert, Jr. dated September 2, 2008

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

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