



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

March 3, 2010

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 05000321/2010001 AND 05000366/2010001)

Dear Mr. Madison:

On February 9, 2010, 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, 2009. 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 and 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 White inspection finding in the Mitigating Systems Cornerstone for the failure of the 1B emergency diesel generator coupling. A supplemental inspection was completed in November 18, 2009 for this White finding, the results of which are documented in NRC inspection report 05000321,366/2009009. No significant weaknesses were identified in the supplemental inspection.

Although plant performance was within the Regulatory Response column, the significance of the finding documented in NRC inspection report 05000321,366/2009005 for failure to establish and perform preventive maintenance activities to replace aged electrolytic capacitors is still under review as part of the Significance Determination Process which, when finalized, may change our assessment of your plant's safety performance. For Unit 2, the performance deficiency led to failures of the emergency diesel generator (EDG) loss of offsite power (LOSP) circuits and a failure of the power supply for the main feedwater median level controller.

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Based on plant performance over the cycle, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility. We also plan on conducting, a triennial Fire Protection inspection, triennial Heat Sink inspection, triennial 50.59 Modifications inspection, temporary instruction (TI) 2515/173, "Industry Ground Water Protection Initiative," TI 2515/180 "Inspection of Procedures and Processes for Managing Fatigue" and reactor operator licensing examinations.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through June 30, 2011. 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.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  
License Nos.: DPR-57, NPF-5

Enclosure: Hatch Inspection/Activity Plan

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cc w/encl:

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(cc w/encl: continued next page)

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**Hatch**  
**Inspection / Activity Plan**  
**03/01/2010 - 06/30/2011**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>PSB1-RP - RAD HAZARD ASSESSMENT &amp; EXPOSURE CONTROL</b>		<b>2</b>
1,2	03/01/2010	03/05/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
			<b>TI-180 - TI-180 MANAGING FATIGUE</b>		<b>2</b>
1,2	03/08/2010	03/12/2010	IP 2515/180	Inspection of Procedures and Processes for Managing Fatigue	
			<b>EB3 HS - HEAT SINK INSPECTION</b>		<b>1</b>
1,2	04/12/2010	04/16/2010	IP 7111107T	Heat Sink Performance	
			<b>EB1-MODS - MODIFICATIONS-10CFR50.59</b>		<b>3</b>
1,2	05/03/2010	05/07/2010	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
1,2	05/10/2010	05/14/2010	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
			<b>PSB1-RP - RP GROUNDWATER PROTECTION</b>		<b>1</b>
1,2	05/17/2010	05/21/2010	IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative	
			<b>OL RQ - REQUAL INSPECTION</b>		<b>5</b>
1,2	09/20/2010	09/24/2010	IP 7111111B	Licensed Operator Requalification Program	
			<b>PSB1EP - EMERGENCY PREPAREDNESS INSPECTION</b>		<b>1</b>
1,2	10/18/2010	10/22/2010	IP 7111402	Alert and Notification System Evaluation	
1,2	10/18/2010	10/22/2010	IP 7111403	Emergency Response Organization Augmentation Testing	
1,2	10/18/2010	10/22/2010	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	10/18/2010	10/22/2010	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1,2	10/18/2010	10/22/2010	IP 71151	Performance Indicator Verification	
			<b>TFPI - TFPI</b>		<b>7</b>
1,2	11/15/2010	11/19/2010	IP 7111105T	Fire Protection [Triennial]	
1,2	11/29/2010	12/03/2010	IP 7111105T	Fire Protection [Triennial]	
			<b>PSB1-RP - RP OCCUPATIONAL WEEK 1</b>		<b>3</b>
1,2	02/28/2011	03/04/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	02/28/2011	03/04/2011	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	02/28/2011	03/04/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	02/28/2011	03/04/2011	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1,2	02/28/2011	03/04/2011	IP 71151	Performance Indicator Verification	
			<b>PSB1-RP - RP-OCCUPATIONAL WEEK 2</b>		<b>2</b>
1,2	03/14/2011	03/18/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	03/14/2011	03/18/2011	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	03/14/2011	03/18/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	03/14/2011	03/18/2011	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1,2	03/14/2011	03/18/2011	IP 71151	Performance Indicator Verification	

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

Enclosure

**Hatch**  
**Inspection / Activity Plan**  
**03/01/2010 - 06/30/2011**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>EB3ISI - UNIT 2 INSERVICE INSPECTION</b>		<b>1</b>
2	04/11/2011	04/15/2011	IP 7111108G	Inservice Inspection Activities - BWR	
			<b>OL EXAM - INITIAL EXAM PREP</b>		<b>3</b>
1	05/16/2011	05/20/2011	V23345	HATCH/JUNE 2011 EXAM AT POWER FACILITIES	
			<b>OL EXAM - INITIAL EXAM - WEEK 1</b>		<b>3</b>
1	06/06/2011	06/10/2011	V23345	HATCH/JUNE 2011 EXAM AT POWER FACILITIES	
			<b>OL EXAM - INITIAL EXAM - WEEK 2</b>		<b>3</b>
1	06/13/2011	06/24/2011	V23345	HATCH/JUNE 2011 EXAM AT POWER FACILITIES	

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Enclosure