



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,

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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)

SNC

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cc w/encls:

J. T. Gasser  
Executive Vice President  
Southern Nuclear Operating Company, Inc.  
Electronic Mail Distribution

David H. Jones  
Vice President - Engineering  
Southern Nuclear Operating Company, Inc.  
P.O. Box 1295  
Birmingham, AL 35201-1295

L. M. Stinson  
Vice President , Fleet Operations Support  
Plant Hatch  
Southern Nuclear Operating Company, Inc.  
Electronic Mail Distribution

Raymond D. Baker  
Manager Licensing - Hatch  
Southern Nuclear Operating Company, Inc.  
Electronic Mail Distribution

Arthur H. Dobby, Esq.  
Troutman Sanders  
Electronic Mail Distribution

Laurence Bergen  
Oglethorpe Power Corporation  
Electronic Mail Distribution

Moanica Caston  
Southern Nuclear Operating Company, Inc.  
Bin B-022  
P. O. Box 1295  
Birmingham, AL 35201-1295

Director  
Department of Natural Resources  
205 Butler Street, SE, Suite 1252  
Atlanta, GA 30334

Manager, Radioactive Materials Program  
Department of Natural Resources  
Electronic Mail Distribution

Chairman  
Appling County Commissioners  
69 Tippins St., Suite 201  
Baxley, GA 31513

Resident Manager  
Oglethorpe Power Corporation  
Edwin I. Hatch Nuclear Plant  
Electronic Mail Distribution

Senior Engineer - Power Supply  
Municipal Electric Authority  
of Georgia  
Electronic Mail Distribution

Reece McAlister  
Executive Secretary  
Georgia Public Service Commission  
244 Washington Street, SW  
Atlanta, GA 30334

**Hatch**  
**Inspection / Activity Plan**  
**09/01/2007 - 03/31/2009**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>OL EXAM - INITIAL EXAM PREP</b>		<b>3</b>			
1	V23274	HATCH/NOVEMBER 2007 EXAM AT POWER FACILITIES		11/05/2007	11/09/2007	Not Applicable
	<b>OL EXAM - INITIAL EXAM</b>		<b>3</b>			
1	V23274	HATCH/NOVEMBER 2007 EXAM AT POWER FACILITIES		12/03/2007	12/07/2007	Not Applicable
	<b>EB3-HS - HEAT SINK INSPECTION</b>		<b>1</b>			
1,2	IP 7111107B	Heat Sink Performance		12/10/2007	12/14/2007	Baseline Inspections
	<b>EB3-ISI - UNIT 1 - INSERVICE INSPECTION</b>		<b>1</b>			
1	IP 7111108G	Inservice Inspection Activities - BWR		02/18/2008	02/22/2008	Baseline Inspections
	<b>EB1-CDBI - COMPONENT DESIGN BASIS INSPECTION</b>		<b>8</b>			
1,2	IP 7111121	Component Design Bases Inspection		06/09/2008	06/13/2008	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		06/23/2008	06/27/2008	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		07/07/2008	07/11/2008	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		07/21/2008	07/25/2008	Baseline Inspections
	<b>OL RQ - REQUAL INSPECTION</b>		<b>2</b>			
1,2	IP 7111111B	Licensed Operator Requalification Program		07/21/2008	07/25/2008	Baseline Inspections
	<b>PSB1-EP - EP INSP</b>		<b>1</b>			
1,2	IP 7111402	Alert and Notification System Testing		08/18/2008	08/22/2008	Baseline Inspections
1,2	IP 7111403	Emergency Response Organization Augmentation Testing		08/18/2008	08/22/2008	Baseline Inspections
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		08/18/2008	08/22/2008	Baseline Inspections
1,2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		08/18/2008	08/22/2008	Baseline Inspections
1,2	IP 71151-EP01	Drill/Exercise Performance		08/18/2008	08/22/2008	Baseline Inspections
1,2	IP 71151-EP02	ERO Drill Participation		08/18/2008	08/22/2008	Baseline Inspections
1,2	IP 71151-EP03	Alert & Notification System		08/18/2008	08/22/2008	Baseline Inspections
	<b>PSB1-RP - RADIATION PROTECTION PREINSPECTION VISIT</b>		<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		10/20/2008	10/22/2008	Baseline Inspections
	<b>PSB1-RP - RADIATION PROTECTION PUBLIC BASELINE</b>		<b>4</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		11/17/2008	11/21/2008	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		11/17/2008	11/21/2008	Baseline Inspections
1,2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		11/17/2008	11/21/2008	Baseline Inspections
1,2	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P		11/17/2008	11/21/2008	Baseline Inspections
1,2	IP 71151-OR01	Occupational Exposure Control Effectiveness		11/17/2008	11/21/2008	Baseline Inspections
1,2	IP 71151-PR01	RETS/ODCM Radiological Effluent		11/17/2008	11/21/2008	Baseline Inspections
	<b>OL EXAM - INITIAL EXAM PREP</b>		<b>3</b>			
1	V23289	HATCH/DECEMBER 2008 EXAM AT POWER FACILITIES		03/30/2009	04/03/2009	Not Applicable