



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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Hatch
Inspection / Activity Plan
09/01/2008 - 12/31/2009

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	PB2T1176 - EMERGENCY DIESEL GENERATOR MARGIN		2			
1,2	IP 2515/176	Emergency Diesel Generator Tech Spec Surveillance Requirements Re: Endurance & Margin		07/01/2008	12/31/2008	Generic Safety Inspectio
	OL RQ - REQUAL INSPECTION		2			
1,2	IP 7111111B	Licensed Operator Requalification Program		09/08/2008	09/12/2008	Baseline Inspections
	PSB1-EP - EMERGENCY PREPAREDNESS INSPECTION		1			
1,2	IP 2515/175	Emergency Response Organization, Drill/Exercise Performance Indicator, Program Review		09/08/2008	09/12/2008	Baseline Inspections
1,2	IP 7111402	Alert and Notification System Testing		09/08/2008	09/12/2008	EP Baseline Inspection
1,2	IP 7111403	Emergency Response Organization Augmentation Testing		09/08/2008	09/12/2008	EP Baseline Inspection
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		09/08/2008	09/12/2008	EP Baseline Inspection
1,2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		09/08/2008	09/12/2008	EP Baseline Inspection
1,2	IP 71151-EP01	Drill/Exercise Performance		09/08/2008	09/12/2008	Baseline Inspections
1,2	IP 71151-EP02	ERO Drill Participation		09/08/2008	09/12/2008	Baseline Inspections
1,2	IP 71151-EP03	Alert & Notification System		09/08/2008	09/12/2008	Baseline Inspections
	TI-171 - B.5.B PHASE 2&3		3			
1,2	IP 2515/171	Verification of Site Specific Implementation Of B.5.b Phase 2 & 3 Mitigating Strategies		09/15/2008	09/19/2008	Generic Safety Inspectio
	PSB1-RP - RADIATION PROTECTION PREINSPECTION VISIT		1			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		10/20/2008	10/22/2008	Baseline Inspections
	PSB1-RP - RADIATION PROTECTION PUBLIC BASELINE		4			
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 Program		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
	PSB1-RP - RP OCCUPATIONAL PREINSPECTION (ISFSI)		1			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		01/26/2009	01/30/2009	Baseline Inspections
	PSB1-RP - RP OCCUPATIONAL BASELINE WEEK 1		2			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		02/16/2009	02/20/2009	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		02/16/2009	02/20/2009	Baseline Inspections
1,2	IP 7112202	Radioactive Material Processing and Transportation		02/16/2009	02/20/2009	Baseline Inspections
1,2	IP 71151-OR01	Occupational Exposure Control Effectiveness		02/16/2009	02/20/2009	Baseline Inspections
1,2	IP 71151-PR01	RETS/ODCM Radiological Effluent		02/16/2009	02/20/2009	Baseline Inspections
	EB3-ISI - UNIT 2 INSERVICE INSPECTION		2			
2	IP 7111108G	Inservice Inspection Activities - BWR		02/23/2009	02/27/2009	Baseline Inspections

Hatch
Inspection / Activity Plan
09/01/2008 - 12/31/2009

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	PSB1-RP - RP OCCUPATIONAL BASELINE WEEK 2		2			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		02/23/2009	02/27/2009	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		02/23/2009	02/27/2009	Baseline Inspections
1,2	IP 7112202	Radioactive Material Processing and Transportation		02/23/2009	02/27/2009	Baseline Inspections
1,2	IP 71151-OR01	Occupational Exposure Control Effectiveness		02/23/2009	02/27/2009	Baseline Inspections
1,2	IP 71151-PR01	RETS/ODCM Radiological Effluent		02/23/2009	02/27/2009	Baseline Inspections
	OL EXAM - INITIAL EXAM PREP		6			
1	V23311	HATCH/APRIL 2009 EXAM AT POWER FACILITIES		03/30/2009	04/03/2009	Not Applicable
	OL EXAM - INITIAL EXAM - WEEK 1		4			
1	V23311	HATCH/APRIL 2009 EXAM AT POWER FACILITIES		04/20/2009	04/24/2009	Not Applicable
	EB1-CDBI - COMPONENT DESIGN BASIS INSPECTION		8			
1,2	IP 7111121	Component Design Bases Inspection		04/20/2009	04/24/2009	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		05/04/2009	05/08/2009	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		05/18/2009	05/22/2009	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		06/01/2009	06/05/2009	Baseline Inspections
	OL EXAM - INITIAL EXAM - WEEK 2		4			
1	V23311	HATCH/APRIL 2009 EXAM AT POWER FACILITIES		04/27/2009	05/01/2009	Not Applicable
	PI&R - PROBLEM IDENTIFICATION AND RESOLUTION		5			
1	IP 71152B	Identification and Resolution of Problems		10/05/2009	10/09/2009	Baseline Inspections
1	IP 71152B	Identification and Resolution of Problems		10/19/2009	10/23/2009	Baseline Inspections
	OL EXAM - INITIAL EXAM PREP		6			
1	V23320	HATCH/OCTOBER 2009 EXAM AT POWER FACILITIES		10/05/2009	10/09/2009	Not Applicable
	PSB1EP - EMERGENCY PREPAREDNESS EXERCISE		3			
1,2	IP 7111401	Exercise Evaluation		10/12/2009	10/16/2009	EP Baseline Inspection
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		10/12/2009	10/16/2009	EP Baseline Inspection
1,2	IP 71151-EP01	Drill/Exercise Performance		10/12/2009	10/16/2009	Baseline Inspections
1,2	IP 71151-EP02	ERO Drill Participation		10/12/2009	10/16/2009	Baseline Inspections
1,2	IP 71151-EP03	Alert & Notification System		10/12/2009	10/16/2009	Baseline Inspections
	OL EXAM - INITIAL EXAM - WEEK 1		4			
1	V23320	HATCH/OCTOBER 2009 EXAM AT POWER FACILITIES		10/26/2009	10/30/2009	Not Applicable
	OL EXAM - INITIAL EXAM - WEEK 2		4			
1	V23320	HATCH/OCTOBER 2009 EXAM AT POWER FACILITIES		11/02/2009	11/06/2009	Not Applicable