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

November 18, 2009

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

SUBJECT: EDWIN I. HATCH NUCLEAR PLANT - NRC EMERGENCY PREPAREDNESS INSPECTION REPORT 05000321/2009501 AND 05000366/2009501

Dear Mr. Madison:

On October 16, 2009, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your Edwin I. Hatch Nuclear Plant, Units 1 and 2. The enclosed inspection report documents the inspection results, which were discussed on October 16, 2009, with Mr. W. Bargeron and other members of your staff.

The inspection examined activities conducted under your license as they relate to safety and compliance with the Commission's rules and regulations and with the conditions of your license. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel.

Based on the results of this inspection, no findings of significance were identified.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response, if any, will be 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 Website at http://www.nrc.gov/reading-rm/adams.html (the Public Electronic Reading Room).

Sincerely,

/RA/
Brian Bonser, Chief
Plant Support Branch 1
Division of Reactor Safety

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

Enclosure: Inspection Report 05000321/2009501 and 05000366/2009501
w/Attachment: Supplemental Information

cc w/encl.: (See page 2)

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X PUBLICLY AVAILABLE ☐ NON-PUBLICLY AVAILABLE ☐ SENSITIVE X NON-SENSITIVE

ADAMS: ☐ Yes ACCESSION NUMBER:_____ X SUNSI REVIEW COMPLETE

OFFICE	RII:DRS	RII:DRS	RII:DRS	RII:DRP	RII:DRS		
SIGNATURE	Via email	Via email	Via email	Via email	BRB /RA/		
NAME	LMiller	JBeavers	BHolbrook	EMorris	BBonser		
DATE	11/18/2009	11/10/2009	11/10/2009	11/16/2009	11/18/2009		
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY DOCUMENT NAME: G:\DRSII\PSB1\INSPECTION REPORTS (EP)\HATCH EXERCISE IR2009501 .DOC

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Letter to Dennis R. Madison from Brian Bonser dated November 18, 2009

SUBJECT: EDWIN I. HATCH NUCLEAR PLANT - NRC EMERGENCY PREPAREDNESS INSPECTION REPORT 05000321/2009501 AND 05000366/2009501

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RIDSNRRDIRS
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RidsNrrPMHatch Resource

U.S. NUCLEAR REGULATORY COMMISSION

REGION II

Docket Nos.:	05000321, 05000366
License Nos.:	DPR-57, NPF-5
Report No.:	05000321/2009501 and 05000366/2009501
Licensee:	Southern Nuclear Operating Company, Inc.
Facility:	Edwin I. Hatch Nuclear Plant, Units 1 and 2
Location:	Baxley, GA
Dates:	October 12, 2009 through October 16, 2009
Inspectors:	L. Miller, Senior Emergency Preparedness Inspector J. Beavers, Emergency Preparedness Inspector B. Holbrook, Emergency Preparedness Inspector E. Morris, Senior Resident Inspector B. Bonser, Chief, Plant Support Branch 1
Approved by:	Brian R. Bonser, Chief Plant Support Branch 1 Division of Reactor Safety

Enclosure

SUMMARY OF FINDINGS

IR 05000321/2009-501, 05000366/2009-501; 10/12 – 16/2009; Edwin I. Hatch Nuclear Plant, Units 1 and 2; Exercise and Baseline Inspection.

The report covered an announced inspection by three emergency preparedness inspectors, the Branch Chief for Plant Support Branch 1, and a resident inspector. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process."

A. NRC-Identified and Self-Revealing Findings

No findings of significance were identified.

B. Licensee-Identified Violations

None

REPORT DETAILS

1. REACTOR SAFETY

Cornerstone: Emergency Preparedness

1EP1 Exercise Evaluation

a. Inspection Scope

Prior to the inspection activity, the inspectors conducted an in-office review of the exercise objectives and scenario submitted to the NRC to determine if the exercise would test major elements of the emergency plan as required by 10 CFR 50.47(b)(14). This inspection activity represents one sample on a biennial cycle.

The onsite inspection consisted of the following review and assessment:

- The adequacy of the licensee's performance in the biennial exercise conducted on October 14, 2009, was reviewed and assessed regarding the implementation of the Risk Significant Planning Standards (RSPSs) in 10 CFR 50.47 (b)(4), (5), (9), and (10), which address emergency classification, offsite notification, radiological assessment, and protective action recommendations, respectively.

- The overall adequacy of the licensee's emergency response facilities with regard to NUREG-0696, "Functional Criteria for Emergency Response Facilities" and Emergency Plan commitments. The facilities assessed were the Control Room simulator, Technical Support Center (TSC), Operations Support Center (OSC) and Emergency Operations Facility (EOF).

- Other performance areas besides the RSPS, such as the emergency response organization's (ERO) recognition of abnormal plant conditions, command and control, intra- and inter-facility communications, prioritization of mitigation activities, utilization of repair and field monitoring teams, interface with offsite agencies, and the overall implementation of the emergency plan and its implementing procedures.

- Past performance issues from NRC inspection reports and Federal Emergency Management Agency (FEMA)/Department of Homeland Security (DHS) exercise reports to determine effectiveness of corrective actions as demonstrated during this exercise to ensure compliance with 10 CFR 50.47(b)(14).

- The post-exercise critique process and the presentation to the licensee's senior management conducted on October 16, 2009, to evaluate the licensee's self-assessment of its ERO performance during the exercise and to ensure compliance with 10 CFR 50 Appendix E.IV.F.2.g.

The inspectors reviewed various documents which are listed in the Attachment to this report.

b. Findings

No findings of significance were identified.

1EP4 Emergency Action Level and Emergency Plan Changes

a. Inspection Scope

Since the last NRC inspection of this program area, revisions 28 and 29 of the Hatch Nuclear Plant Emergency Plan were implemented. The licensee determined that in accordance with 10 CFR 50.54(q), the changes resulted in no decrease in the effectiveness of the Plan, and that the revised Plan continued to meet the requirements of 10 CFR 50.47(b) and Appendix E to 10 CFR Part 50. The inspectors conducted a sampling review of the implementing procedure changes made between July 1, 2008 and September 30, 2009, to evaluate for potential decreases in effectiveness of the Plan. However, this review was not documented in a Safety Evaluation Report and does not constitute formal NRC approval of the changes. Therefore, these changes remain subject to future NRC inspection in their entirety.

The inspection was conducted in accordance with NRC Inspection Procedure 71114, Attachment 04, "Emergency Action Level and Emergency Plan Changes." The applicable planning standard (PS), 10 CFR 50.47(b)(4) and its related 10 CFR 50, Appendix E requirements were used as reference criteria.

The inspectors reviewed various documents which are listed in the Attachment. This inspection activity satisfied one inspection sample for the emergency action level and emergency plan changes on an annual basis.

b. Findings

No findings of significance were identified.

4. OTHER ACTIVITIES

4OA1 Performance Indicator Verification

a. Inspection Scope

Cornerstone: Emergency Preparedness

The inspectors sampled licensee submittals for three Performance Indicators (PI) listed below. For each of the submittals reviewed, the inspectors reviewed the period from July 1, 2008, through June 30, 2009. To verify the accuracy of the PI data reported during that period, PI definitions and guidance contained in Nuclear Energy Institute (NEI) 99-02, "Regulatory Assessment Indicator Guideline," Revision 5, were used to verify the basis in reporting for each data element.

- Emergency Response Organization Drill/Exercise Performance (DEP)
- Emergency Response Organization Readiness (ERO)
- Alert and Notification System Reliability (ANS)

The inspectors reviewed portions of the raw PI data developed from monthly performance indicator reports and discussed the methods for compiling and reporting the PIs with cognizant emergency preparedness personnel. The inspectors also independently screened drill and exercise opportunity evaluations, drill participation reports, and drill evaluations. Selected reported values were calculated to verify their accuracy. The inspectors compared graphical representations from the most recent PI report to the raw data to verify that the data was correctly reflected in the report. Reviewed documents are listed in the Attachment.

b. Findings

No findings of significance were identified.

4OA6 Meetings, including Exit

On October 16, 2009, the lead inspector presented the inspection results to Mr. W. Bargeron and other members of your staff. The inspector confirmed that proprietary information was not provided during the inspection.

ATTACHMENT: SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensee personnel

W. Bargeron, Plant Manager
C. Brown, Emergency Preparedness Coordinator - Corporate
S. Grantham, Training Manager
J. Lewis, Site Support Manager
D. Madison, Vice President
R. Otto, Emergency Preparedness Supervisor

LIST OF DOCUMENTS REVIEWED

1EP1: Exercise Evaluation

Procedures
73EP-EIP-004-0, Duties of Emergency Director, Rev. 10
73EP-EIP-016-0, TSC HVAC Operation, Rev. 4
73EP-EIP-020-0, Offsite Environmental Monitoring During Emergencies, Rev. 3.1
73EP-EIP-062-0, Operations Support Center Activation, Rev. 5.7
73EP-EIP-063-0, Technical Support Center Activation, Rev. 9.3
NMP-EP-109, Protective Action Recommendations, Rev. 2
TRN-0070, OSC Communications Checks, Rev. 3.1

Records and Data
Control Room (Simulator), Technical Support Center, Operations Support Center, Emergency Operations Facility, Joint Information Center - Documentation packages (logs, event notification forms, Protective Action Recommendations, Media releases, and Radiological Dose/Core damage Assessments)

Corrective Action - Action Request
2009100684, Freon leak on 1N62B527A.
2009100685, NOUE was declared at 0850 for release of Freon Gas into the Waste Gas Treatment Building
2009109959, Core Damage Assessment calculations not documented
2009109962, Inaccurate information on Alert Notification form
2009109963, ENN notification message TSC #4 was made with EAL FS1 on line 4
2009109967, Late notification of PAR upgrade
2009109978, Emergency Director did not fully demonstrate command and control
2009109993, Controller information was handed out to a player concerning habitability
2009109976, Need to develop extensive expectations and rules of conduct for controllers
2009109974, Review all EIP and administrative EP procedures to provide performance enhancement tools
2009109973, Need to develop procedural direction and expectations for use and quality of log keeping and documentation
2009109972, ERO members were using uncontrolled copies of procedures

1EP4: Emergency Action Level and Emergency Plan Changes

Changes packages
Edwin I. Hatch Nuclear Plant Emergency Plan, Rev. 28 and 29
73EP-EIP-001-0, Emergency Classification and Initial Actions, Rev. 17
73EP-EIP-073-0, Offsite Emergency Notifications, Rev. 19.1
73EP-EIP-018-0, Prompt Offsite Dose Assessment, Rev. 8.5
73EP-EIP-023-0, Core Damage Assessment, Rev. 0.5
73EP-EIP-063-0, Rev. 9.3

4OA1: Performance Indicator Verification

00AC-REG-005-0, Preparation and Reporting of NRC PI Data, Rev. 6.0
DI-TRN-49-0691, Alert and Notification Radio Program, Rev. 6.0
2008 Annual Report of the Edwin I. Hatch Nuclear Plant EPZ Prompt Notification Program

Records and Data
Documentation of Performance Indicator data July 1, 2008, through June 30, 2009 for DEP, ANS, and ERO

LIST OF ACRONYMS

ANS	Alert and Notification System
EOF	Emergency Operations Facility
DEP	Drill/Exercise Performance
DHS	Department of Homeland Security
ERO	Emergency Response Organization
FEMA	Federal Emergency Management Agency
NEI	Nuclear Energy Institute
OSC	Operations Support Center
PI	Performance Indicator
PS	Planning Standard
RSPSs	Risk Significant Planning Standards
TI	Temporary Instruction
TSC	Technical Support Center