



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION II
245 PEACHTREE CENTER AVENUE NE, SUITE 1200
ATLANTA, GEORGIA 30303-1257

May 21, 2013

Mr. George T. Hamrick
Site Vice President
Shearon Harris Nuclear Plant
Carolina Power & Light Company
P.O. Box 165, Mail Code: Zone 1
New Hill, NC 27562-0165

**SUBJECT: SHEARON HARRIS NUCLEAR PLANT - EMERGENCY PREPAREDNESS
INSPECTION REPORT 05000400/2013503**

Dear Mr. Hamrick:

On May 3, 2013, the U.S. Nuclear Regulatory Commission (NRC) completed an emergency preparedness inspection at the Harris Nuclear Plant. The enclosed inspection report documents the inspection results, which were discussed on May 3, 2013, with you and other members of plant 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 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. 50-400
License No. NPF-63

Enclosure:
Inspection Report 05000400/2013503
w/Attachment: Supp. Info

cc: (See page 3)

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NAME	WLOO	DBERKSHIRE	BBONSER				
DATE	5/20/2013	5/21/2013	5/21/2013	5/ /2013	5/ /2013	5/ /2013	5/ /2013
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cc continued: (See page 3)

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Letter to George T. Hamrick from Brian Bonser dated May 21, 2013

SUBJECT: SHEARON HARRIS NUCLEAR PLANT - EMERGENCY PREPAREDNESS
INSPECTION REPORT 05000400/2013503

DISTRIBUTION:

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U.S. NUCLEAR REGULATORY COMMISSION

REGION II

Docket Nos.: 05000400

License Nos.: NPF-63

Report No.: 05000400/2013503

Licensee: Carolina Power and Light Company

Facility: Shearon Harris Nuclear Plant, Unit 1

Location: New Hill, NC

Dates: April 29 through May 3, 2013

Inspectors: W. Loo, Senior Health Physicist
D. Berkshire, Emergency Preparedness Inspector
Patrick Lessard, Resident Inspector

Approved by: Brian Bonser, Chief
Plant Support Branch 1
Division of Reactor Safety

Enclosure

SUMMARY OF FINDINGS

IR 05000400/2013503; 04/29/2013 – 05/03/2013; Shearon Harris Nuclear Power Plant;
Exercise and Baseline Inspection

The report covered an announced inspection by one emergency preparedness inspector, one senior health physicist, and one resident inspector. No findings were identified. The NRC program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process," Revision 4.

REPORT DETAILS

1. REACTOR SAFETY

Cornerstone: Emergency Preparedness

1EP1 Exercise Evaluation

a. Inspection Scope

Prior to the arrival onsite, the inspectors conducted an in-office review of the exercise objectives and scenario submitted to the NRC using IP 71114.08, Exercise Evaluation, Scenario Review, to determine if the exercise would test major elements of the emergency plan as required by 10 CFR 50.47(b)(14).

The onsite inspection consisted of the following review and assessment:

- The adequacy of the licensee's performance in the biennial exercise, conducted on April 30, 2013, was reviewed and assessed regarding the implementation of the Risk Significant Planning Standards (RSPS) 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, 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 the 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 May 2, 2013, to evaluate the licensee's self-assessment of its ERO performance during the exercise and to ensure compliance with 10 CFR 50, Appendix E, Subsection IV.F.2.g.

The inspectors reviewed various documents which are listed in the Attachment. This inspection activity satisfied one inspection sample for the exercise evaluation on a biennial basis.

b. Findings

No findings were identified.

4. OTHER ACTIVITIES

4OA1 Performance Indicator Verification

a. Inspection Scope

The inspectors sampled licensee submittals relative to the Performance Indicators (PI) listed below for the period July 1, 2012, through March 31, 2013. To verify the accuracy of the PI data reported during that period, PI definitions and guidance contained in NEI 99-02, "Regulatory Assessment Performance Indicator Guideline", Revision 6, were used to confirm the reporting basis for each data element.

Emergency Preparedness Cornerstone

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

For the specified review period, the inspectors examined data reported to the NRC, procedural guidance for reporting PI information, and records used by the licensee to identify potential PI occurrences. The inspectors verified the accuracy of the DEP through review of a sample of drill and event records. The inspectors reviewed selected training records to verify the accuracy of the ERO PI for personnel assigned to key positions in the ERO. The inspectors verified the accuracy of the PI for ANS reliability through review of a sample of the licensee's records of periodic system tests. Licensee procedures, records, and other documents reviewed within this inspection area are listed in the Attachment.

The inspectors reviewed various documents which are listed in the Attachment. This inspection activity satisfied one inspection sample for each of the three Emergency Preparedness PI, i.e., DEP, ERO, and ANS, on an annual basis.

b. Findings

No findings were identified.

4OA6 Meetings, Including Exit

On May 3, 2013, the lead inspector presented the inspection results to Mr. G. Hamrick, Site Vice President, and other members of the plant staff. The inspectors confirmed that proprietary information was not provided during the inspection.

ATTACHMENT: SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensee Personnel

M. Austin, Emergency Preparedness Corporate Functional Area Manager
D. Corlett, Reg. Affairs Supervisor
J. Dufner, Manager
S. Fischer, EP Specialist
D. Griffith, Training Manager
G. Hamrick, Site Vice President
E. Kapopoulos, Plant Manager
E. Lipetzky, Systems Engineering Manager
T. McDowell, EP Specialist
J. Overly, Corporate Emergency Preparedness
S. O'Connor, Organizational Effectiveness Manager
M. Parker, RP Superintendent
G. Simmons, EP Supervisor
J. Stephenson, Fleet Emergency Preparedness Manager
D. Stih, EP Specialist
T. Toler, NOS Manager
M. Wallace, Sr. Licensing Specialist
J. Warner, Outage Scheduling Manager

ITEMS OPENED, CLOSED, AND DISCUSSED

None

LIST OF DOCUMENTS REVIEWED

1EP1 Exercise Evaluation

Procedures

CAP-NGGC-0200, Condition Identification and Screening Process, Revision (Rev.) 36
CAP-NGGC-0205, Condition Evaluation and Corrective Action Process, Rev. 17
EMG-NGGC-0002, Offsite Dose Assessment, Rev. 4
EP-EAL, Emergency Action Level, Rev. 10
EPM-200, ERO Training Program, Rev. 11
EPM-210, EP Drill and Exercise Program, Rev. 16
EPM-601, Core Damage Assessment Technical Basis, Rev. 2
PEP-110, Emergency Classification and Protective Action Recommendations, Rev. 21
PEP-230, Control Room Operations, Rev. 20
PEP-240, Activation and Operation of the Technical Support Center, Rev. 15
PEP-241, Technical Support Center Emergency Ventilation System Operation, Rev. 2
PEP-250, Activation and Operation of the Joint Information Center, Rev. 17
PEP-260, Activation and Operation of the Operations Support Center, Rev. 12
PEP-270, Activation and Operation of the Emergency Operations Facility, Rev. 24
PEP-310, Notifications and Communications, Rev. 28
PEP-330, Radiological Consequences, Rev. 9

PEP-342, Core Damage Assessment, Rev. 5
 PEP-344, HNP Offsite Dose Assessment Based on Monitored Releases, Rev. 1
 PEP-350, Protective Actions, Rev. 8
 PLP-201, Emergency Plan, Rev. 59

Records and Data

2011 and 2012 Emergency Exercise and drill scenario documents
 Control Room, Technical Support Center, Operations Support Center, Joint Information Center,
 Emergency Operations Facility - Documentation packages (logs, event notification forms,
 Protective Action Recommendations, Media releases, and Radiological Dose Assessments)
 HNP NRC/FEMA 2013 Graded IPZ Exercise Management Debrief
 Quick Hit Self Assessment, EP Drill 11-04 EP Drill Critique

Corrective Action Program documents

CR 604110, Unable to Activate ERDS During EP Drill 13-04
 CR 604111, Number of EnMon Positions on OSC Personnel Status Board not Correct
 CR 604113, Drill Controller not Pre-Staged with OSC Shift Techs
 CR 604114, Authority for using 10CFR50.54(x) Incorrectly Delegated to SEC-MCR
 CR 604115, EP Graded Exercise Validation not Taken to Endpoint
 CR 604117, EP Graded Exercise Started Without Simulator Operator
 CR 604118, TSC Controller/Evaluator not in TSC at Prescribed Time
 CR 604119, Untimely Notification of INPO in Emergency Drill
 CR 604120, Incorrect Time Entered on Emergency Notification Form
 CR 604121, Lack of Update to Facility on Meteorology Data Changes
 CR 604122, Questionable Hydrogen Production and Containment Radiation Monitor Data
 CR 604320, Lead TSC Controller Stated an Additional TSC Accident Assessment Team
 Controller and an Additional TSC Admin Team Controller are Needed
 CR 604444, Duke Press Releases Should not Address Off Site Recommendations/Actions

Section 40A1: Performance Indicator Verification

Procedures

EMG-NGGC-0004, Maintenance of the Emergency Response Organization Notification System,
 Rev. 2
 EMG-NGGC-0005, Activation of the Emergency Response Organization Notification System,
 Rev. 2
 PLP-201, Emergency Plan, Revision 59
 REG-NGGC-0009, NRC Performance Indicators and Monthly Operating Report Data, Rev. 11

Records and Data

Drill and Exercise Performance opportunities documentation from 3rd Quarter 2012, through 1st
 Quarter 2013
 Drill and exercise participation records of ERO personnel from 3rd Quarter 2012, through 1st
 Quarter 2013
 Siren Test Data from 3rd Quarter 2012, through 1st Quarter 2013

LIST OF ACRONYMS USED

ANS	Alert and Notification System
DEP	Drill and Exercise Performance
DHS	Department of Homeland Security
EOF	Emergency Operations Facility
ERO	Emergency Response Organization
FEMA	Federal Emergency Management Agency
NEI	Nuclear Energy Institute
NRC	Nuclear Regulatory Commission
OSC	Operations Support Center
PI	Performance Indicator
RSPS	Risk Significant Planning Standard
TSC	Technical Support Center