



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

October 14, 2010

Mr. Michael J. Annacone
Vice President
Brunswick Steam Electric Plant
P.O. Box 10429
Southport, NC 28461-0429

SUBJECT: BRUNSWICK STEAM ELECTRIC PLANT - NRC EMERGENCY
PREPAREDNESS INSPECTION REPORT 05000325/2010501 AND
05000324/2010501

Dear Mr. Annacone:

On September 2, 2010, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your Brunswick Steam Electric Plant, Units 1 and 2. The enclosed inspection report documents the inspection results, which were discussed on September 2, 2010, with Mr. M. Annacone 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.: 50-325, 50-324
License No.: DPR-71, DPR-62

Enclosure: Inspection Report 05000325/2010-501 and 05000324/2010-501
w/Attachment: Supplemental Information

cc w/encl.: (See page 2)

Mr. Michael J. Annacone
 Vice President
 Brunswick Steam Electric Plant
 P.O. Box 10429
 Southport, NC 28461-0429

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DATE	10/13/2010	10/13/2010		10/13/2010			
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cc w/encl:

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(cc w/encl continued next page)

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(cc w/encl continued)

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Letter to Michael J. Annacone from Brian Bonser dated October 14, 2010

SUBJECT: BRUNSWICK STEAM ELECTRIC PLANT - NRC EMERGENCY
PREPAREDNESS INSPECTION REPORT 05000325/2010501 AND
05000324/2010501

Distribution w/encl:

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OE Mail

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U.S. NUCLEAR REGULATORY COMMISSION

REGION II

Docket Nos.: 05000325, 05000324

License Nos.: DPR-71, DPR-62

Report No.: 05000325/2010-501 and 05000324/2010-501

Licensee: Carolina Power and Light Company

Facility: Brunswick Steam Electric Plant, Units 1 and 2

Location: Southport, NC

Dates: August 30, 2010 through September 2, 2010

Inspectors: L. Miller, Senior Emergency Preparedness Inspector
J. Beavers, Emergency Preparedness Inspector
G. Kolcum, Resident Inspector

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

Enclosure

SUMMARY OF FINDINGS

IR 05000325/2010-501; IR 05000324/2010-501; 08/30/2010 – 09/2/2010; Brunswick Steam Electric Plant, Unit 1 and 2; Baseline Inspection.

The report covered an announced inspection by two emergency preparedness inspectors and one resident inspector.

A. NRC-Identified and Self-Revealing Findings

No findings were identified.

B. Licensee-Identified Violations

None

Enclosure

REPORT DETAILS

1. REACTOR SAFETY

Cornerstone: Emergency Preparedness (EP)

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).

The onsite inspection consisted of the following review and assessment:

- The adequacy of the licensee's performance in the biennial exercise, conducted on August 31, 2010, 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 September 2, 2010, to evaluate the licensee's self-assessment of its Emergency Response Organization (ERO) performance during the exercise and to ensure compliance with 10 CFR 50, Appendix E, Subsection IV.F.2.g.

Enclosure

The inspector 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.

1EP4 Emergency Action Level and Emergency Plan Changes

a. Inspection Scope

Since the last NRC inspection of this program area, revisions 73 and 74 of the Emergency Plan was implemented based on the licensee's determination, in accordance with 10 CFR 50.54(q), that 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 November 1, 2009, and July 31, 2010, 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 were identified.

4. OTHER ACTIVITIES

4OA1 Performance Indicator Verification

a. Inspection Scope

The inspector sampled licensee submittals relative to the Performance Indicators (PIs) listed below for the period October 1, 2009, through June 30, 2010. 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 inspector examined data reported to the NRC, procedural guidance for reporting PI information, and records used by the licensee to identify potential PI occurrences. The inspector verified the accuracy of the DEP through review of a sample of drill and event records. The inspector reviewed selected training records to verify the accuracy of the ERO PI for personnel assigned to key positions in the ERO. The inspector 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 inspector reviewed various documents which are listed in the Attachment. This inspection activity satisfied one inspection sample for each of the three (3) Emergency Preparedness PIs, i.e., DEP, ERO, and ANS, on an annual basis.

b. Findings

No findings were identified.

4OA6 Meetings, Including Exit

On September 2, 2010, the lead inspector presented the inspection results to Mr. M. Annacone and other members of his staff. The inspector confirmed that proprietary information was provided and returned to your staff during the inspection.

ATTACHMENT: SUPPLEMENTAL INFORMATION

Enclosure

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensee personnel

M. Annacone, VP – BNP
K. Crocker, Supervisor Emergency Preparedness
B. Davis, Manger Engineering
S. Gordy, Manager Operations
R. Ivey, Manager NOS
J. Johnson, Manager E&RC
P. Mentel, Manager Support Services
A. Pope, Supervisor Licensing/Regulatory Programs
J. Stephenson, Corporate Emergency Preparedness
E. Willis, Plant General Manager

LIST OF DOCUMENTS REVIEWED

1EP1 Exercise Evaluation

Procedures

OPEP-02.6.20, Dose Projection Coordinator, Rev. 24
OPEP-02.6.21, Emergency Communicator, Rev. 54
OPEP-02.2.1, Emergency Action Level Technical Bases
OPEP-03.6.3, Estimate of the Extent of Core Damage Under Accident Conditions, Rev. 15
Emergency Exposure Controls, OPEP-03.7.6, Rev. 4
OPEP-03.7.7, Onsite Radiological Controls, Rev. 4
OPEP-03.8.2, Personnel Accountability and Evacuation, Rev. 20
EMG-NGGC-0002, Off-Site Dose Assessment, Rev. 1

Records and Data

Control Room, Technical Support Center, Operations Support Center, Joint Information Center - Documentation packages (logs, event notification forms, Protective Action Recommendations, Media releases, and Radiological Dose Assessment)

1EP4 Emergency Action Level (EAL) and Emergency Plan Changes

Change Packages

Emergency Plan Rev. 73 and 74
OPEP-02.1, Initial Emergency Actions, Rev. 51 and 52
OPEP-02.1.1, Emergency Control – Notification of Unusual Event, Alert, Site Area Emergency, and General Emergency, Rev. 13 and 14
OPEP-02.6, Severe Weather, Rev. 15
OPEP-02.6.21, Emergency Communicator, Rev. 52 and 54

Section 4OA1: Performance Indicator VerificationProcedures

REG-NGGC-0009, NRC Performance Indicators and Monthly Operating Report Data, Rev. 10
 OPEP-04.3, Performance of Training, Exercises, and Drills, Rev. 22

Records and Data

DEP opportunities documentation from 4th Quarter 2009 through 2nd Quarter 2010
 Drill and exercise participation records of ERO personnel from 4th Quarter 2009 through 2nd Quarter 2010
 Siren test data from 4th Quarter 2009 through 2nd Quarter 2010
 Various ERO Personnel Qualification and Participation records

LIST OF ACRONYMS

ANS	Alert and Notification System Reliability
DEP	Emergency Response Organization Drill/Exercise Performance
DHS	Department of Homeland Security
EOF	Emergency Operations Facility
ERO	Emergency Response Organization Readiness
FEMA	Federal Emergency Management Agency
OSC	Operations Support Center
PI	Performance Indicator
RSPS	Risk Significant Planning Standards
TSC	Technical Support Center