



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION II
SAM NUNN ATLANTA FEDERAL CENTER
61 FORSYTH STREET, SW, SUITE 23T85
ATLANTA, GEORGIA 30303-8931

November 17, 2006

Carolina Power and Light Company
ATTN: Mr. J. Scarola
Vice President
Brunswick Steam Electric Plant
P. O. Box 10429
Southport, NC 28461

SUBJECT: BRUNSWICK STEAM ELECTRIC PLANT - NRC INSPECTION REPORT
05000325/2006501 AND 05000324/2006501

Dear Mr. Scarola:

On November 9, 2006, the U. S. Nuclear Regulatory Commission (NRC) completed an inspection at your Brunswick Steam Electric Plant. The enclosed inspection report documents the inspections results, which were discussed with Mr. T. Cleary, Director Site Operations, 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 and its enclosure 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 Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Should you have any questions concerning this letter, please contact us.

Sincerely,

/RA/

Brian R. Bonser, Chief
Plant Support Branch 1
Division of Reactor Safety

Docket Nos. 50-325, 50-324
License Nos. DPR-71, DPR-62

Enclosure: (See page 2)

Enclosure: NRC Inspection Report 05000325/2006501 and 05000324/2006501
w/Attachment: Supplemental Information

cc w/encl:

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(cc w/encl cont'd - See page 3)

(cc w/encl cont'd)

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(cc w/encl cont'd - See page 4)

CP&L

4

(cc w/encl cont'd)

Warren Lee

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RIDSNRRDIRS

PUBLIC

November 17, 2006

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P. O. Box 10429
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Enclosure: (See page 2)

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DATE	11/17/2006	11/13/2006	11/13/2006	11/17/2006	11/ /2006	11/ /2006	11/ /2006
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U. S. NUCLEAR REGULATORY COMMISSION

REGION II

Docket Nos: 50-325, 50-324

License Nos: DPR-71, DPR-62

Report Nos: 05000325/2006003 and 05000324/2006003

Licensee: Carolina Power and Light (CP&L)

Facility: Brunswick Steam Electric Plant, Units 1 & 2

Location: 8470 River Road SE
Southport, NC 28461

Dates: November 6, 2006 through November 9, 2006

Inspectors: L. Miller, Senior Emergency Preparedness Inspector
(Section 1EP1, 1EP4)
J. Kreh, Emergency Preparedness Inspector
(Section 1EP1, 4OA1)
N. Sanfilippo, Emergency Preparedness Specialist
(Section 1EP1, 1EP4, 4OA1)

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

Enclosure

SUMMARY OF FINDINGS

IR 05000325/2006501, 05000324/2006008; 11/06-11/09/2006; Brunswick Steam Electric Plant, Units 1 and 2; routine baseline emergency preparedness inspection.

The report covered an announced inspection by two emergency preparedness inspectors and one emergency preparedness specialist. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process," Revision 3, dated July 2000.

A. NRC-Identified and Self-Revealing Findings

Cornerstone: Emergency Preparedness

None

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 November 7, 2006, 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 are 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), 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 conducted November 8, 2006, 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 (EAL) and Emergency Plan Changes

a. Inspection Scope

The inspector's review of revisions to the emergency plan, implementing procedures and EAL changes was performed to determine that changes had not decreased the effectiveness of the plan. The inspectors also evaluated the associated 10 CFR 50.54(q) reviews associated with non-administrative emergency plan, implementing procedures and EAL changes. The Radiological Emergency Plan Revision 67 and Revision 68 were reviewed and covered the period from November 2005 to November 2006.

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 criteria contained in NUREG-0654, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Regulatory Guide 1.101 were also used as references. This inspection activity represents one sample on an annual basis.

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

b. Findings

No findings of significance were identified.

4. OTHER ACTIVITIES

4OA1 Performance Indicator (PI) Verification

a. Inspection Scope

The inspectors reviewed the licensee's procedure for developing the data for the Emergency Preparedness PIs which are: (1) Drill/Exercise Performance (DEP); (2) ERO Drill Participation; and (3) Alert and Notification System (ANS) Reliability. The inspectors examined data reported to the NRC for the period September, 2005 to September, 2006. Procedural guidance for reporting PI information and records used by the licensee to identify potential PI occurrences were also reviewed. The inspectors verified the accuracy of the PI for ERO DEP through review of a sample of drill and event records. The inspectors reviewed selected training records to verify the accuracy of the PI for ERO drill participation 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.

The inspection was conducted in accordance with NRC Inspection Procedure 71151, "Performance Indicator Verification." The applicable PI, 10 CFR 50.9 and Nuclear Energy Institute (NEI) 99-02, Revisions 3 and 4, "Regulatory Assessment Performance

Indicator Guidelines,” were used as reference criteria. This inspection activity represents three samples on an annual basis.

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

b. Findings

No findings of significance were identified.

4OA6 Meetings, including Exit

On November 9, 2006, the lead inspector for the emergency preparedness inspection presented the inspection results to Mr. T. Cleary, Director Site Operations, and other members of his staff. The inspectors confirmed that proprietary information was not provided or taken during the inspection.

ATTACHMENT: SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensee personnel

T. Cleary, Director Site Operations
S. Rogers, Manager, Maintenance
R. Ivey, Manager, Nuclear Support Services
J. Tittrington, Manager, Nuclear Assessment
G. Atkinson, Supervisor, Emergency Preparedness
A. Pope, Supervisor, Licensing and Regulatory Programs
K. Crocker, Emergency Preparedness

LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

Opened

None

Closed

None

Discussed

None

LIST OF DOCUMENTS REVIEWED

Section 1EP1: Exercise Evaluation

Emergency Plans and Implementing Procedures

OPEP-02.1, Initial Emergency Actions, Rev 50
OPEP-02.1.1, Emergency Control - Notification of Unusual Event, Alert, Site Area Emergency, and General Emergency, Rev 10
OPEP-02.6.21, Emergency Communicator, Rev. 46
OPEP-02.6.26, Activation and Operation of the Technical Support Center, Revision 16
OPEP-02.6.27, Activation and operation of the Emergency Operations Facility (EOF), Rev 18
OPEP-02.6.28, Off-Site Protective Action Recommendations, Rev 9

Corrective Actions

AR 211850, Control Room Improvement Items during 11/07/06 exercise
AR 211854, Accident Assessment Team Evaluation of Core Damage
AR 211858, Precautionary Relocation of Personnel during 11/07/06 exercise
AR 211863, AAT did not Communicate Data of Mission Complete to TSC
AR 211872, Follow-up Emergency Notification form Errors Radiological Release Information
AR 211888, Follow-up Emergency Notification form Errors Radiological Release Data
AR 211887, Radiological Dose projection forms do not contain Unique Identifier
AR 188683, Implementing EC 63657, Rev. 0
AR 189122, Implementing OPEP-02.1, Rev. 50
AR 189628, Implementing Emergency Plan, Rev. 68

Section 1EP4: Performance Indicator (PI) Verification

E-Plan Changes

Radiological Emergency Plan (ERP), Rev. 68
50.54(q) evaluation for (OERP) Radiological Emergency Response Plan (ERP), Rev 67
50.54(q) evaluation for (OERP) Radiological Emergency Response Plan (ERP), Rev 68

Section 4OA1: Performance Indicator (PI) Verification

Procedures, Records, and Data

REG-NGGC-0009, NRC Performance Indicators and Monthly Operating Report Data, Rev. 5
NGGD-0006, NGG Key Performance Indicators, Rev. 1
Documentation package (scenario/time line/event notification forms/critique report) for ERO drill on 06/08/2006
Documentation of Licensed Operator Continuing Training evaluation on 05/17/2006
Records of drill and exercise participation by selected key ERO personnel, 2004-2006
ANS data from October 2005 - September 2006

LIST OF ACRONYMS

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