



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

February 1, 2011

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

SUBJECT: BRUNSWICK STEAM ELECTRIC PLANT – NRC EXAMINATION REPORT  
05000325/2010302 AND 05000324/2010302

Dear Mr. Annacone:

During the period December of 6 – 13, 2010, the Nuclear Regulatory Commission (NRC) administered operating tests to employees of your company who had applied for licenses to operate the Brunswick Steam Electric Plant. At the conclusion of the tests, the examiners discussed preliminary findings related to the operating tests with those members of your staff identified in the enclosed report. The written examination was administered by your staff on December 20, 2010.

All applicants passed both the operating test and written examination. There were no post-examination comments. A Simulator Fidelity Report is included in this report as Enclosure 2.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosures will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of the NRC's document system (ADAMS). ADAMS is accessible from the NRC Website at <http://www.nrc.gov/reading-rm.html> (the Public Electronic Reading Room).

If you have any questions concerning this letter, please contact me at (404) 997-4550

Sincerely,

**/RA/**

Malcolm T. Widmann, Chief  
Operations Branch  
Division of Reactor Safety

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

Enclosures:  
1. Report Details  
2. Simulator Fidelity Report

cc w/encl: (See page 2)

February 1, 2011

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

SUBJECT: BRUNSWICK STEAM ELECTRIC PLANT – NRC EXAMINATION REPORT 05000325/2010302  
AND 05000324/2010302

Dear Mr. Annacone:

During the period of December 6 – 13, 2010, the Nuclear Regulatory Commission (NRC) administered operating tests to employees of your company who had applied for licenses to operate the Brunswick Steam Electric Plant. At the conclusion of the tests, the examiners discussed preliminary findings related to the operating tests with those members of your staff identified in the enclosed report. The written examination was administered by your staff on December 20, 2010.

All applicants passed both the operating test and written examination. There were no post-examination comments. A Simulator Fidelity Report is included in this report as Enclosure 2.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosures will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of the NRC's document system (ADAMS). ADAMS is accessible from the NRC Website at <http://www.nrc.gov/reading-rm.html> (the Public Electronic Reading Room).

If you have any questions concerning this letter, please contact me at (404) 997-4550

Sincerely,

/RA/

Malcolm T. Widmann, Chief  
Operations Branch  
Division of Reactor Safety

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

- Enclosures:  
1. Report Details  
2. Simulator Fidelity Report

cc w/encl: (See page 2)

Distribution w/encl:

- C. Evans, RII EICS (Part 72 Only)
- L. Douglas, RII EICS (Linda Douglas)
- OE Mail (email address if applicable)
- RIDSNRRDIRS
- PUBLIC
- R. Pascarelli, NRR ((Regulatory Conferences Only))
- RidsNrrPMBrunswick Resource

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	
SIGNATURE	RA/ M.BATES FOR	RA	RA	RA	
NAME	PCapehart	MBates	MWidmann	RMusser	
DATE	02/01/11	02/01/11	02/01/11	02/01/11	
E-MAIL COPY?	YES    NO	YES    NO	YES    NO	YES    NO	

OFFICIAL RECORD COPY DOCUMENT NAME: O:\BRUNSWICK EXAMINATIONS\INITIAL EXAM 2010-302\CORRESPONDENCE\BRUNSWICK 2010-302 EXAM REPORT REV2.DOCX

cc w/encl:  
R. J. Duncan, II  
Vice President  
Nuclear Operations  
Carolina Power & Light Company  
Electronic Mail Distribution

William Jefferson, Jr.  
Director Site Operations  
Brunswick Steam Electric Plant  
Electronic Mail Distribution

Edward L. Wills, Jr.  
Plant General Manager  
Brunswick Steam Electric Plant  
Progress Energy Carolinas, Inc.  
Electronic Mail Distribution

Christos Kamilaris  
Director  
Fleet Support Services  
Carolina Power & Light Company  
Electronic Mail Distribution

Joseph W. Donahue  
Vice President  
Nuclear Oversight  
Carolina Power and Light Company  
Electronic Mail Distribution

Brian C. McCabe  
Manager, Nuclear Regulatory Affairs  
Progress Energy Carolinas, Inc.  
Electronic Mail Distribution

Phyllis N. Mentel  
Manager, Support Services  
Brunswick Steam Electric Plant  
Progress Energy Carolinas, Inc.  
Electronic Mail Distribution

Lenny Beller  
Interim Manager, Training  
Brunswick Steam Electric Plant  
Progress Energy Carolinas, Inc.  
Electronic Mail Distribution

(Vacant)  
Manager  
License Renewal  
Progress Energy  
Electronic Mail Distribution

Annette H. Pope  
Supervisor, Licensing/Regulatory Programs  
Brunswick Steam Electric Plant  
Progress Energy Carolinas, Inc.  
Electronic Mail Distribution

Senior Resident Inspector  
U.S. Nuclear Regulatory Commission  
Brunswick Steam Electric Plant  
U.S. NRC  
8470 River Road, SE  
Southport, NC 28461

John H. O'Neill, Jr.  
Shaw, Pittman, Potts & Trowbridge  
2300 N. Street, NW  
Washington, DC 20037-1128

Peggy Force  
Assistant Attorney General  
State of North Carolina  
P.O. Box 629  
Raleigh, NC 27602

Chairman  
North Carolina Utilities Commission  
Electronic Mail Distribution

Robert P. Gruber  
Executive Director  
Public Staff - NCUC  
4326 Mail Service Center  
Raleigh, NC 27699-4326

Brunswick County Board of Commissioners  
P.O. Box 249  
Bolivia, NC 28422

James Ross  
Nuclear Energy Institute  
Electronic Mail Distribution

(cc w/encl continued on page 4)

CP&L

3

cc w/encl continued  
Public Service Commission  
State of South Carolina  
P.O. Box 11649  
Columbia, SC 29211

W. Lee Cox, III  
Section Chief  
Radiation Protection Section  
N.C. Department of Environmental  
Commerce & Natural Resources  
Electronic Mail Distribution

Warren Lee  
Emergency Management Director  
New Hanover County Department of  
Emergency Management  
230 Government Center Drive  
Suite 115  
Wilmington, NC 28403

**U.S. NUCLEAR REGULATORY COMMISSION**

**REGION II**

Docket Nos.: 05000325, 05000324

License Nos.: DPR-71, DPR-62

Report No.: 05000325/2010302 and 05000324/2010302

Licensee: Carolina Power and Light Company

Facility: Brunswick Steam Electric Plant, Units 1 and 2

Location: Southport, NC

Dates: Operating Tests – December 6 - 13, 2010  
Written Examination – December 20, 2010

Examiners: P. Capehart, Chief Examiner  
M. Bates, Senior Operations Engineer  
K. Schaaf, Operations Engineer  
P. Young, Reactor Engineer

Approved by: Malcolm T. Widmann, Chief  
Operations Branch  
Division of Reactor Safety

## SUMMARY OF FINDINGS

ER 05000325/2010302 and ER 05000324/2010302; December 6-13, 2010, and December 20, 2010; Brunswick Steam Electric Plant, Units 1 & 2; Licensed Operator Examinations.

Nuclear Regulatory Commission (NRC) examiners conducted an initial examination in accordance with the guidelines in Revision 9, Supplement 1, of NUREG-1021, "Operator Licensing Examination Standards for Power Reactors." This examination implemented the operator licensing requirements identified in 10 CFR §55.41, §55.43, and §55.45, as applicable.

Members of the Brunswick training staff developed the written examination, the operating test outlines and the operating tests. The operating tests included job performance measures and scenarios. The NRC developed the written examination outlines.

The NRC administered the operating tests during the period of December 6 – 13, 2010. The Brunswick training staff administered the written examination on December 20, 2010. Two Reactor Operators (RO) and 10 Senior Reactor Operators (SRO) applicants passed both the operating test and written examination.

There were no post examination comments.

No findings of significance were identified.

## REPORT DETAILS

### 4. OTHER ACTIVITIES (OA)

#### 4OA5 Operator Licensing Initial Examinations

##### a. Inspection Scope

Members of the Brunswick Steam Electric Plant developed both the operating tests and the written examination. All examination material was developed in accordance with the guidelines contained in Revision 9, Supplement 1, of NUREG-1021, "Operator Licensing Examination Standards for Power Reactors." The NRC examination team reviewed the proposed examination. Examination changes agreed upon between the NRC and the licensee were made per NUREG-1021, and incorporated into the final version of the examination materials.

The NRC reviewed the licensee's examination security measures while preparing and administering the examinations in order to ensure compliance with 10 CFR §55.49, "Integrity of examinations and tests."

The NRC examiners evaluated two RO, and 10 SRO applicants using the guidelines contained in NUREG-1021. The examiners administered the operating tests during the period of December 6 – 13, 2010. Members of the Brunswick Steam Electric Plant training staff administered the written examination on December 20, 2010. Evaluations of applicants and reviews of associated documentation were performed to determine if the applicants, who applied for licenses to operate the Brunswick Steam Electric Plant, met the requirements specified in 10 CFR Part 55, "Operators' Licenses."

##### b. Findings

No findings of significance were identified. The NRC used NUREG-1021, to determine that the licensee's draft written and operating examination submittal was within the range of acceptability expected for a proposed examination.

All applicants passed both the operating test and written examination and were issued licenses.

Copies of all individual examination reports were sent to the Training Manager for evaluation and determination of appropriate remedial training.

A copy of the final RO written examination/answer key, and the final SRO written exam/answer key with all changes incorporated, was entered into the ADAMS system (ADAMS Accession Number(s) ML110240159, ML110240159); however, the release of these examinations will be delayed until December 20, 2012.

4OA6 Meetings, Including ExitExit Meeting Summary

On December 14, 2010, the NRC examination team discussed generic issues associated with the operating test with you and members of the Brunswick Steam Electric Plant staff. The examiners asked the licensee if any of the examination material was proprietary. No proprietary information was identified.

**PARTIAL LIST OF PERSONS CONTACTED**Licensee Personnel

L. Beller, Superintendent of Operator Training  
B. Bolin, Senior Nuclear Operations Training Instructor  
S. Gordy, Operations Manager  
L. Grzeck, Licensing Supervisor (Acting)  
W. Jefferson, Director of Site Operations  
M. Nemeč, Senior Nuclear Operations Training Instructor  
A. Padleckas, Superintendent Nuclear Operations Performance  
T. Pearson, Supervisor Operator Initial Training  
T. Sherrill, Licensing  
E. Wills, Plant General Manager



## **SIMULATION FACILITY REPORT**

Facility Licensee: Brunswick Steam Electric Plant

Facility Docket No.: 05000325 and 05000324

Operating Tests Administered on: December 6 – 13, 2010

This form is to be used only to report observations. These observations do not constitute audit or inspection findings, and without further verification and review in accordance with IP 71111.11, are not indicative of noncompliance with 10 CFR 55.46. No licensee action is required in response to these observations.

While conducting the simulator portion of the operating tests, examiners did not observe any simulation fidelity issues.