



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

November 19, 2014

George T. Hamrick
Vice President
Brunswick Steam Electric Plant
P.O. Box 10429
Southport, NC 28461-0429

SUBJECT: BRUNSWICK STEAM ELECTRIC PLANT – NRC EXAMINATION REPORT
05000325/2014301 AND 05000324/2014301

Dear Mr. Hamrick:

During the period of October 6 – 14, 2014, 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 October 21, 2014.

All applicants passed both the operating test and written examination. There were no post-administration comments concerning the written examination.

The initial examination submittal was within the range of acceptability expected for a proposed examination. All examination changes agreed upon between the NRC and your staff were made according to NUREG-1021, Operator Licensing Examination Standards for Power Reactors, Revision 9, Supplement 1.

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.adams.html> (the Public Electronic Reading Room).

If you have any questions concerning this letter, please contact me at (404) 997-4551.

Sincerely,

/RA: Eugene F. Guthrie for/

Gerald J. McCoy, Chief
Operations Branch 1
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: Distribution via ListServ

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☐ NON-PUBLICLY AVAILABLE

☐ SENSITIVE

☒ NON-SENSITIVE

ADAMS: ☒ Yes ACCESSION NUMBER: __ML14323A888__

☒ SUNSI REVIEW COMPLETE ☐ FORM 665 ATTACHED

OFFICE	RII:DRS	RII:DRS					
SIGNATURE	EFG FOR PFGC1	EFG FOR GJM1					
NAME	Capehart	McCoy					
DATE	11/19/2013	11/19/2013					
E-MAIL COPY?	YES NO	YES NO	YES	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY

DOCUMENT NAME: G:\OLEXAMS\BRUNSWICK EXAMINATIONS\INITIAL EXAM 2014-301\CORRESPONDENCE\BRUNSWICK 2014-301 EXAM REPORT.DOCX

Letter to George T. Hamrick from Gerald J. McCoy dated November 19, 2014.

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05000325/2014301 AND 05000324/2014301

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U.S. NUCLEAR REGULATORY COMMISSION

REGION II

Docket No.: 05000325, 05000324

License No.: DPR-71, DPR-62

Report No.: 05000325/2014301 and 05000324/2014301

Licensee: Duke Energy Progress, Inc.

Facility: Brunswick Steam Electric Plant, Units 1 and 2

Location: Southport, NC

Dates: Operating Tests - October 6 - 14, 2014
Written Examination - October 21, 2014

Examiners: P. Capehart, Chief Examiner
B. Caballero, Senior Operations Engineer
A. Goldau, Operations Engineer

Approved by: Gerald J. McCoy, Chief
Operations Branch 1
Division of Reactor Safety

SUMMARY OF FINDINGS

ER 05000325/2014301 and ER 05000324/2014301; operating test October 6 - 14, 2014, & written exam October 21, 2014; Brunswick Steam Electric Plant, Units 1 & 2; Operator License 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 both the operating tests and the written examination. The NRC developed the written examination outline.

The NRC administered the operating tests during the period of October 6 - 14, 2014. The Brunswick training staff administered the written examination on October 21, 2014. Four Reactor Operators (RO) and seven Senior Reactor Operators (SRO) applicants passed both the operating test and written examination. All applicants were issued licenses commensurate with the level of examination administered.

There were no post-examination comments.

No findings were identified.

REPORT DETAILS

4. OTHER ACTIVITIES

4OA5 Operator Licensing Examinations

a. Inspection Scope

Members of the Brunswick training staff 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 four RO and seven SRO applicants using the guidelines contained in NUREG-1021. The examiners administered the operating tests during the period of October 6 - 14, 2014. Members of the Brunswick training staff administered the written examination on October 21, 2014. 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 were identified. The NRC determined, using NUREG-1021, that the licensee's initial 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.

The licensee submitted no post-examination comments concerning the written examination. A copy of the final RO written examination and answer key, final SRO written examination and answer key, with all changes incorporated, may be accessed not earlier than October 4, 2016, in the ADAMS system (ADAMS Accession Numbers ML14316A366 and ML14316A391).

4OA6 Meetings, Including Exit

Exit Meeting Summary

On October 13, 2014, 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.

KEY POINTS OF CONTACT

Licensee Personnel

M. Similey, Superintendent of Operator Training
B. Bolin, Exam Writer
L. Sosler, Exam Writer
F. Jefferson, Engineer Manager
J. Barry, Simulator Supervisor
J. Angel, Operator Training Supervisor
J. Kalamaja, Operations Manager
A. Padleckas, Shift Operations Manager
L. Grzeck, Regulatory Affairs Manager
S. Braown, NOS Manager
J. Krakuszeki, Plant Manager

SIMULATOR FIDELITY REPORT

Facility Licensee: Brunswick Steam Electric Plant

Facility Docket No.: 05000325 and 05000324

Operating Tests Administered on: October 6 – 14, 2014

This form is to used only to report observations. This observation does not constitute audit or inspection findings and, without further verification and review in accordance with Inspection Procedure 71111.11, is 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 test, examiners observed the following:

<u>Item</u>	<u>Description</u>
Inadequate labeling of H2-O2 monitor	2OP-15, SAMPLING SYSTEM OPERATING PROCEDURE, step 8.1.2.1.A states to ensure H2-O2 monitor, CAC-AT-4410 (CAC-AT4410) is in OFF. This step should be enhanced to add that this step is performed on the XU-51 panel to prevent the confusion of placing the 4409/4410 power to OFF on the XU-75/79 panel. PR-713615 written to document this issue.
Alarm Panel Procedure directs operators to wrong procedure section	2APP-A-06 contains action steps that reference the wrong procedure sections for OP-02. The procedure was revised to the new Duke format and the APP actions were not revised to the new procedure sections from the format change. This issue is addressed as part of PR-713615 and has been previously addressed by PR-690669 during the 2013 NRC exam.
Improper labeling of drip drain valves for CRD pumps	An Engineering Change Request (ECR) has been submitted to have the names of the "Drain Isolation Valves" for both unit CRD pumps changed to "Drip Tray Drain Valves", or something more descriptive. The ECR number is 17561.