



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

December 5, 2014

Mrs. Cherly A. Gayheart
Vice President Nuclear Plant Site
Southern Nuclear Operating Co. Inc.
Joseph M. Farley Nuclear Plant
7388 North State Highway 95
Columbia, AL 36319

**SUBJECT: JOSEPH M. FARLEY NUCLEAR PLANT – NRC OPERATOR LICENSE
EXAMINATION REPORT 05000348/2014301 AND 05000364/2014301**

Dear Mrs. Gayheart:

During the period October 6-13, 2014, the Nuclear Regulatory Commission (NRC) administered operating tests to employees of your company who had applied for licenses to operate the Joseph M. Farley Nuclear Plant. At the conclusion of the tests, the examiners discussed preliminary findings related to the operating tests and the written examination submittal 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-examination comments. A Simulator Fidelity Report is included in this report as Enclosure 2.

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).

C. Gayheart

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If you have any questions concerning this letter, please contact me at (404) 997-4662.

Sincerely,

/RA/

Eugene F. Guthrie, Chief
Operations Branch 2
Division of Reactor Safety

Docket Nos: 50-348 and 50-364

License Nos: NPF-2 and NPF-8

Enclosures: 1. Report Details
2. Simulator Fidelity Report

cc: Distribution via Listserv

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Eugene F. Guthrie, Chief
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PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE NON-SENSITIVE

ADAMS: Yes ACCESSION NUMBER: ML14342A661 SUNSI REVIEW COMPLETE FORM 665 ATTACHED

OFFICE	RII:DRS	RII:DRS	RII:DRS				
SIGNATURE	DXB2	EXL2	EFG				
NAME	BACON	LEA	GUTHRIE				
DATE	12/4/2014	12/4/2014	12/5/2014	12/ /2014	12/ /2014	12/ /2014	12/ /2014
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

U.S. NUCLEAR REGULATORY COMMISSION

REGION II

Docket No.: 05000348, 05000364

License No.: NPF-2, NPF-9

Report No.: 05000348/2014301 AND 05000364/2014301

Licensee: Southern Nuclear Company (SNC), LLC

Facility: Joseph M. Farley Nuclear Plant

Location: Ashford, AL

Dates: Operating Test – October 6-13, 2014
Written Examination – October 21, 2014

Examiners: D. Bacon, Chief Examiner, Senior Operations Engineer
E. Lea, Jr., Senior Operations Engineer
S. Currie, Reactor Engineer (Examiner)

Approved by: Eugene F. Guthrie, Chief
Operations Branch 2
Division of Reactor Safety

SUMMARY

ER 05000348/2014301 and 05000364/2014301; operating test October 6-13, 2014 & written exam October 21, 2014; Joseph M. Farley Nuclear Plant; Units 1 and 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 Joseph M. Farley Nuclear Plant staff developed both the operating tests and the written examination. The initial operating test, written RO examination, and written SRO examination submittals met the quality guidelines contained in NUREG-1021.

The NRC administered the operating tests during the period October 6-13, 2014. Members of the Joseph M. Farley Nuclear Plant training staff administered the written examination on October 21, 2014. All Reactor Operator (RO) and Senior Reactor Operator (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

The NRC evaluated the submitted operating test by combining the scenario events and JPMs in order to determine the percentage of submitted test items that required replacement or significant modification. The NRC also evaluated the submitted written examination questions (Reactor Operator and Senior Reactor Operator questions considered separately) in order to determine the percentage of submitted questions that required replacement or significant modification, or that clearly did not conform with the intent of the approved knowledge and ability (K/A) statement. Any questions that were deleted during the grading process, or for which the answer key had to be changed, were also included in the count of unacceptable questions. The percentage of submitted test items that were unacceptable was compared to the acceptance criteria of NUREG-1021, "Operator Licensing Standards for Power Reactors."

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 administered the operating tests during the period October 6-13, 2014. The NRC examiners evaluated four Reactor Operator (RO) and seven Senior Reactor Operator (SRO) applicants using the guidelines contained in NUREG-1021. Members of the Joseph M. Farley Nuclear Plant 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 Joseph M. Farley Nuclear Plant, met the requirements specified in 10 CFR Part 55, "Operators' Licenses."

The NRC evaluated the performance or fidelity of the simulation facility during the preparation and conduct of the operating tests.

b. Findings

No findings were identified.

The NRC developed the written examination sample plan outline. Members of the Joseph M. Farley Nuclear Plant 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. 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 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 facility Training Manager for evaluation of weaknesses and determination of appropriate remedial training.

The licensee did not submit any post-examination comments. A copy of the final written examination and answer key, with all changes incorporated, may be accessed not earlier than October 21, 2016, in the ADAMS system (ADAMS Accession Numbers ML14316A373 and ML14316A382).

4OA6 Meetings, Including Exit

Exit Meeting Summary

On October 10, the NRC examination team discussed generic issues associated with the operating test with Mr. J. Hutto, Plant Manager, and members of the Joseph M. Farley Nuclear Plant staff. The examiners asked the licensee if any of the examination material was proprietary. The information that the licensee identified as proprietary was handled in a manner consistent with NRC and licensee guidelines for this type of information.

KEY POINTS OF CONTACT

Licensee personnel

J. Hutto, Plant Manager
D. Reed, Operations Support Manager
R. Martin, Regulatory Affairs Manager
H. Bolen, EHS Manager
R. Godwin, Training Director
L. Shaffield, Assistant Maintenance Director
G. Bell, Licensing Supervisor
B. Thornton, Operations Training Exam Lead

NRC personnel

K. Miller, RI

SIMULATOR FIDELITY REPORT

Facility Licensee: Joseph M. Farley Nuclear Plant

Facility Docket Nos.: 05000348, 05000364

Operating Test Administered: October 6-13, 2014

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 Inspection Procedure 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 test, examiners observed the following:

<u>Item</u>	<u>Description</u>
Pressurizer Level Meter (LI460)	Pressurizer Level Meter (LI460) "stuck" for a period of time during one scenario. This resulted in an unplanned entry into FNP-1-AOP-100 (Instrument Malfunction). The meter subsequently became "un-stuck" and operated properly throughout the remainder of the scenarios. Refer to Simulator Maintenance Discrepancy Report #0006018.