



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
2100 RENAISSANCE BLVD., SUITE 100  
KING OF PRUSSIA, PA 19406-2713

November 24, 2014

Mr. Brian Sullivan  
Site Vice President  
Entergy Nuclear Northeast  
James A. FitzPatrick Nuclear Power Plant  
P. O. Box 110  
Lycoming, NY 13093

SUBJECT: JAMES A. FITZPATRICK NUCLEAR POWER PLANT - NRC INITIAL  
OPERATOR LICENSING EXAMINATION REPORT 05000333/2014302

Dear Mr. Sullivan:

On October 2, 2014, the U.S. Nuclear Regulatory Commission (NRC) completed an examination at the FitzPatrick facility. The enclosed examination report documents the examination findings, which were discussed on November 10, 2014, with Mr. R. Sullivan, Operations Training Superintendent, and other members of your staff.

The examination included the evaluation of eight applicants for reactor operator licenses and six applicants for instant senior reactor operator licenses. The written and operating examinations were developed using NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 9, Supplement 1. The license examiners determined that 13 of the 14 applicants satisfied the requirements of 10 CFR Part 55, and the appropriate licenses were issued on November 10, 2014.

No findings were identified during this examination.

In accordance with Title 10 of the "*Code of Federal Regulations* (CFR)," 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 Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html#web-based-ADAMS> (Public Electronic Reading Room).

Sincerely,

/RA/

Donald E. Jackson, Chief  
Operations Branch  
Division of Reactor Safety

B. Sullivan

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Docket No. 50-333  
License No. DPR-59

Enclosure:  
Examination Report 05000333/2014302 w/  
Attachment: Supplemental Information

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Mr. Brian Sullivan  
Site Vice President  
Entergy Nuclear Northeast  
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Sincerely,

/RA/

Donald E. Jackson, Chief  
Operations Branch  
Division of Reactor Safety

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B. Sullivan

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**U.S. NUCLEAR REGULATORY COMMISSION**

**REGION I**

Docket No. 50-333

License No. DPR-59

Report No. 05000333/2014302

Licensee: Entergy Nuclear Northeast

Facility: James A. FitzPatrick Nuclear Power Plant

Location: P. O. Box 110  
Lycoming, NY 13093

Dates: 9/22-26/2014 (Operating Test Administration)  
10/2/2014 (Written Examination Administration)  
10/10 and 10/29, 2014 (Licensee Submitted Post Exam Package)  
9/29 to 10/31, 2014 (NRC Examination Grading)  
11/10/2014 (Licenses issued)

Examiners: T. Fish, Chief Examiner, Operations Branch, DRS  
M. Patel, Examiner  
T. Hedigan, Examiner  
T. Dunn, Examiner  
J. DeMarshall, Examiner

Approved By: Donald E. Jackson, Chief  
Operations Branch  
Divisions of Reactor Safety

## **SUMMARY**

ER 0500033/2014302; September 22 to October 2, 2014; FitzPatrick Nuclear Power Plant; Initial Operator Licensing Examination Report.

NRC examiners evaluated the competency of eight applicants for reactor operator licenses and six applicants for instant senior reactor operator licenses at the FitzPatrick facility. The facility licensee developed the examinations using NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 9, Supplement 1. The written examination was administered by the facility on October 2, 2014. NRC examiners administered the operating tests on September 22 - 26, 2014. The license examiners determined that 13 of the 14 applicants satisfied the requirements of 10 CFR Part 55, and the appropriate licenses have been issued.

No findings were identified.

## REPORT DETAILS

### 4. OTHER ACTIVITIES (OA)

#### 4OA5 Other Activities (Initial Operator License Examination)

##### .1 License Applications

###### a. Scope

The examiners reviewed all license applications submitted by the licensee to ensure the applications reflected that each applicant satisfied relevant license eligibility requirements. The applications were submitted on NRC Form 398, "Personal Qualification Statement," and NRC Form 396, "Certification of Medical Examination by Facility Licensee." The examiners also audited two license applications in detail to confirm that they accurately reflected the subject applicant's qualifications. This audit focused on the applicant's experience and on-the-job training, including control manipulations that provided significant reactivity changes.

###### b. Findings

No findings were identified.

##### .2 Operator Knowledge and Performance

###### a. Examination Scope

On October 2, 2014, the licensee proctored the administration of the written examinations to all applicants. The licensee staff graded the written examinations, analyzed the results, and presented their analysis to the NRC on October 10, 2014.

The NRC examination team administered the various portions of the operating examination to all applicants on September 22 - 26, 2014. The applicants for reactor operator licenses participated in at least two dynamic simulator scenarios, in a control room and facilities walkthrough test consisting of eleven system tasks, and an administrative test consisting of four administrative tasks. The applicants seeking an instant senior reactor operator license participated in at least two dynamic simulator scenarios, a control room and facilities walkthrough test consisting of ten system tasks, and an administrative test consisting of five administrative tasks.

###### b. Findings

All applicants passed all parts of the operating test. 13 of 14 applicants passed the written examination. For the written examinations, the reactor operator applicants' average score was 89.99 percent and ranged from 78.66 to 96.00 percent; the senior reactor operator applicants' average score was 85.34 percent and ranged from 83.83 to 87.87 percent.

Enclosure

The examination questions may be accessed in the ADAMS system under the accession numbers noted in Attachment 1. In accordance with current NRC policy, the release of this written examination in ADAMS to the public will be delayed for two years.

The NRC examiners completed the final grading of the written examination on October 31, 2014, and conducted a review of each missed question to determine the accuracy and validity of the examination questions. In accordance with current NRC policy, the release of this written examination will be delayed for two years.

Chapter ES-403 and Form ES-403-1 of NUREG 1021 require the licensee to analyze the validity of any written examination questions that were missed by half or more of the applicants. The licensee conducted this performance analysis for all questions that met this criterion and submitted the analysis to the chief examiner.

The licensee submitted five post-examination questions comments on October 10, 2014, and provided additional information for those comments on October 29, 2014. The NRC reviewed the facility's post-exam comment submittal package and accepted facility recommendations on two questions. For one accepted comment, the resolution was to accept a different choice as the correct answer. For the second accepted comment, the resolution was to delete the question from the exam. The text of the examination questions, the licensee's examination analysis, and the licensee's post-examination comments with the NRC resolutions may be accessed in the ADAMS system under the accession numbers noted in the Attachment 1.

### .3 Initial Licensing Examination Development

#### a. Examination Scope

The facility licensee developed the examinations in accordance with NUREG-1021, Revision 9, Supplement 1. All licensee facility training and operations staff involved in examination preparation and validation were listed on a security agreement. The facility licensee submitted both the written and operating examination outlines on June 25, 2014. The chief examiner reviewed the outlines against the requirements of NUREG-1021, and provided comments to the licensee. The facility licensee submitted the draft examination package on July 28, 2014. The chief examiner reviewed the draft examination package against the requirements of NUREG-1021, and provided comments to the licensee on the examination on August 11, 2014. The NRC conducted an on-site validation of the operating examinations and provided further comments during the week of August 18, 2014. The licensee satisfactorily completed comment resolution on September 15, 2014.

#### b. Findings

The examiners determined that the written and operating examinations initially submitted by the licensee were within the range of acceptability expected for a proposed examination.

No findings were identified.

Enclosure



.4 Simulation Facility Performance

a. Examination Scope

The examiners observed simulator performance with regard to plant fidelity during the examination validation and administration.

b. Findings

No findings were identified.

.5 Examination Security

a. Examination Scope

The examiners reviewed examination security for examination development and during both the on-site preparation week and examination administration week for compliance with NUREG-1021 requirements. Plans for simulator security and applicant control were reviewed and discussed with licensee personnel.

b. Findings

No findings were identified.

4OA6 Meetings, Including Exit

The chief examiner presented the examination results to Mr. R. Sullivan, Operations Training Superintendent, and other facility staff on November 10, 2014. The facility staff acknowledged the findings presented.

The facility staff did not identify any information or materials used during the examination as proprietary.

**ATTACHMENT: SUPPLEMENTAL INFORMATION**

Enclosure

**SUPPLEMENTAL INFORMATION**

**KEY POINTS OF CONTACT**

Licensee Personnel

T. Restuccio, Supervisor, Operations Training  
D. Kelly, Exam Developer

Items Opened, Closed, And Discussed

None.

**ADAMS DOCUMENTS REFERENCED**

Accession No. ML14318A466 FINAL-Written Exam (Note: In accordance with current NRC policy, the release of this written examination in ADAMS to the public will be delayed for two years.)

Accession No. ML14318A510 FINAL-Operating Exam

Accession No. ML14323A253 Post Exam Comments, NRC Response, and Technical References