



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION I
2100 RENAISSANCE BLVD., SUITE 100
KING OF PRUSSIA, PA 19406-2713

April 20, 2016

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 05000333/2016301

Dear Mr. Sullivan:

On March 11, 2016, the U.S. Nuclear Regulatory Commission (NRC) completed an examination at the James A. FitzPatrick Nuclear Power Plant. The enclosed examination report documents the examination results, which were discussed on April 6, 2016, with yourself and other members of your staff.

The examination included the evaluation of six applicants for reactor operator licenses, and five 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 10. The license examiners determined that all eleven applicants satisfied the requirements of 10 CFR Part 55, and the appropriate licenses were issued on April 6, 2016.

No findings were identified during this examination.

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

Sincerely,

/RA/

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

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

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/RA/

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

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B. Sullivan

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

Enclosure: Examination Report 05000333/2016301
w/Attachment: Supplementary Information

cc w/encl: Distribution via ListServ

B. Sullivan

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Letter to Brian Sullivan from Donald Jackson

SUBJECT: JAMES A. FITZPATRICK NUCLEAR POWER PLANT - NRC INITIAL
OPERATOR LICENSING EXAMINATION REPORT 05000333/2016301

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EXAMINATION REPORT

**U.S. NUCLEAR REGULATORY COMMISSION
REGION I**

Docket: 50-333

License: DPR-59

Report : 05000333/2016301

Licensee: Entergy Nuclear Northeast (Entergy)

Facility: James A. FitzPatrick Nuclear Power Plant

Location: Scriba, NY

Dates: 3/7-11/2016 (Operating Test Administration)
3/16/2016 (Written Examination Administration)
3/25/2016 (Licensee Submitted Post Exam Package)
3/31/2016 (NRC Examination Grading)
4/6/2016 (Licenses Issued)

Examiners: D. Silk, Chief Examiner, Operations Branch
J. D'Antonio, Senior Operations Engineer
P. Presby, Senior Operations Engineer
T. Dunn, Operations Engineer

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

SUMMARY

ER 05000333/2016301; 03/07/2016-03/31/2016; James A. FitzPatrick Nuclear Power Plant; Initial Operator Licensing Examination Report.

Four NRC examiners evaluated the competency of six applicants for reactor operator licenses and five applicants for instant senior reactor operator licenses at the James A. FitzPatrick Nuclear Power Plant. The facility licensee developed the examinations using NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 10. NRC examiners administered the operating tests on March 7-11, 2016. The written examination was administered by the facility on March 16, 2016. The NRC examiners determined that all eleven 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 11 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 three of the 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 March 16, 2016, the licensee proctored the administration of the written examinations to all 11 applicants. The licensee staff graded the written examinations, analyzed the results, and presented their analysis to the U.S. Nuclear Regulatory Commission (NRC) on March 25, 2016.

The NRC examination team administered the various portions of the operating examination to all 11 applicants on March 7-11, 2016. The six applicants for reactor operator licenses participated in two or three dynamic simulator scenarios, in a control room and facilities walkthrough test consisting of 11 system tasks, and an administrative test consisting of four administrative tasks. The five applicants seeking an instant senior reactor operator license participated in three dynamic simulator scenarios, a control room and facilities walkthrough test consisting of 10 system tasks, and an administrative test consisting of five administrative tasks.

b. Findings

The NRC examiners completed the final grading of the written examination on March 25, 2016, and conducted a review of each missed question to determine the accuracy and validity of the examination questions. All 11 of the applicants passed all parts of the written examination and the operating test. For the written examinations,

Enclosure

the reactor operator applicants' average score was 87.5 percent and ranged from 81 to 94 percent while the senior operator applicants' average score was 86.8 percent and ranged from 84.0 to 91.0 percent. The overall written examination average was 87.2 percent. The text of the examination questions may be accessed in the Agencywide Documents Access and Management system (ADAMS) under the accession number noted in Attachment 1. However, in accordance with current NRC policy, the release of this written examination in ADAMS to the public will be delayed for 2 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 eight questions that met these criteria and submitted the analysis to the chief examiner.

.3 Initial Licensing Examination Development

a. Examination Scope

The facility licensee developed the examinations in accordance with NUREG-1021, Revision 10. 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 December 8, 2015. The chief examiner reviewed the outlines against the requirements of NUREG-1021, and provided comments to the licensee. The facility licensee submitted the draft written and operating examination packages on December 23 and 31, 2016, respectively. The chief examiner reviewed the draft examination package against the requirements of NUREG-1021, and finished providing comments to the licensee on the examination on February 29, 2016. The NRC conducted an onsite validation of the operating examinations and provided further comments during the week of February 15, 2016. The licensee satisfactorily completed comment resolution on March 2, 2016.

b. Findings

The NRC approved the initial examination outline and advised the licensee to proceed with the operating examination development.

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.

.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

One simulator discrepancy was identified (Discrepancy Report No. 10383). However, this had no impact on the administration of the operating test. Following the operating test, the issue was resolved. This item is recorded in Attachment 2, Simulator Fidelity Report.

.5 Examination Securitya. Examination Scope

The examiners reviewed examination security for examination development and during both the onsite 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. Brian Sullivan, Site Vice President, and other members of the licensee's management staff on April 6, 2016. The licensee acknowledged the findings presented.

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

Attachments:

1. Supplementary Information
2. Simulator Fidelity Report

SUPPLEMENTARY INFORMATION

KEY POINTS OF CONTACT

Licensee Personnel

M. Reno, Training Manager
A. Armstrong, Operations Training Superintendent
D. Kelly, Senior Staff Operations Instructor

ITEMS OPENED, CLOSED, AND DISCUSSED

Opened

NONE

Closed

NONE

Discussed

NONE

ADAMS DOCUMENTS REFERENCED

Accession No. ML16085A247 – 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. ML16085A249 – FINAL-Operating Exam

Use for all previously undocumented deficiencies encountered on the simulator. If none, then delete this page.

ES-501

Simulator Fidelity Report

Attachment 2

Facility Licensee: FitzPatrick
 Facility Docket No.: 50-333
 Operating Test Administered on: March 7-11, 2016

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 observed the following items:

Item	Description
68TI-101 Channel 105	Indication on Panel 09-75 failed low due to shorted transformer.