



UNITED STATES
NUCLEAR REGULATORY COMMISSION

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

June 24, 2015

Mr. Lawrence Coyle
Site Vice President
Entergy Nuclear Operations, Inc.
Indian Point Energy Center
450 Broadway, GSB
P.O. Box 249
Buchanan, NY 10511-0249

SUBJECT: INDIAN POINT ENERGY CENTER, UNIT 3 - NRC INITIAL OPERATOR
LICENSING EXAMINATION REPORT 05000286/2015301

Dear Mr. Coyle:

On May 15, 2015, the U.S. Nuclear Regulatory Commission (NRC) completed an examination at the Indian Point Energy Center, Unit 3. The enclosed examination report documents the examination results, which were discussed on June 18, 2015, with Mr. Nick Lizzo, Training Manager, and other members of your staff.

The examination included the evaluation of one applicant for a reactor operator license, and four 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 all applicants satisfied the requirements of Title 10 of the *Code of Federal Regulations* (10 CFR) Part 55, and the appropriate licenses were issued on June 18, 2015.

No findings were identified during this examination

In accordance with 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

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

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ADAMS ACCESSION NUMBER: ML15175A298

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NAME	JD'Antonio	DJackson			
DATE	6/23/15	6/24/15			

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L. Coyle

2

Docket No.: 50-286
License No.: DPR-64

Enclosure:
Examination Report 05000286/2015301
w/Attachment: Supplementary Information

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ROPReports Resources

EXAMINATION REPORT

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

Docket: 50-286

License: DPR-64

Report : 05000286/2015301

Licensee: Entergy Nuclear Operations, Inc.

Facility: Indian Point Energy Center, Unit 3

Location: Buchanan, NY 10511-0249

Dates: May 11 - 14, 2015 (Operating Test Administration)
May 18, 2015 (Written Examination Administration)
May 28, 2015 (Licensee Submitted Post Exam Package)
June 18, 2015 (Completion of NRC Examination Grading)
June 18, 2015 (Licenses Issued)

Examiners: J. D'Antonio, Chief Examiner, Operations Branch (OB)
P. Presby, Senior Operations Engineer, OB
C. Lally, Operations Engineer, OB

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

SUMMARY

ER 05000286/2015301; 5/11/2015 – 6/18/2015; Indian Point Energy Center, Unit 3; Initial Operator Licensing Examination Report

Three NRC examiners evaluated the competency of one applicant for a reactor operator license and four applicants for senior reactor operator licenses at Indian Point Energy Center, Unit 3. The Nuclear Regulatory Commission 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 May 18, 2015. NRC examiners administered the operating tests on May 11-14, 2015. The NRC examiners determined that all applicants satisfied the requirements of Title 10 of the *Code of Federal Regulations* (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 the 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 all 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 May 18, 2015, the licensee proctored the administration of the written examinations to all five applicants. The licensee staff graded the written examinations, analyzed the results, and presented their analysis to the NRC on May 28, 2015.

The NRC examination team administered the various portions of the operating examination to all applicants on May 11-14, 2015. The one applicant for a reactor operator license participated in 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 four applicants seeking an instant senior reactor operator license participated in two or three 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 the written examination and operating test. For the written examinations, the one reactor operator applicant's score was 92 percent, the senior operator applicants' average score was 88.25 percent and ranged from 82 to 94 percent. The overall written examination average was 89 percent. The text of the

Enclosure

examination questions and the licensee's examination analysis 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 2 years.

The NRC examiners completed the final grading of the written examination on June 1, 2015, and conducted a review of each missed question to determine the accuracy and validity of the examination questions.

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 these criteria and submitted the analysis to the chief examiner. No post exam comments were submitted.

.3 Initial Licensing Examination Development

a. Examination Scope

The NRC 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 NRC conducted a final onsite validation of the operating examinations and written examination review during the week of January 26, 2015.

b. Findings

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

No findings were identified.

Enclosure

.5 Examination Security

a. 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. Nick Lizzo, Training Manager, and other members of the licensee's management staff on June 18, 2015. 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

Enclosure

SUPPLEMENTARY INFORMATION

KEY POINTS OF CONTACT

Licensee Personnel

J. Herrera, ILO Training Superintendent (Acting)
C. Koscis, Nuclear Training Instructor
D. Dewey, Shift Manager – Operations Training

NRC Personnel

J. D'Antonio, Chief Examiner

ITEMS OPENED, CLOSED, AND DISCUSSED

Opened

NONE

Opened and Closed

NONE

Closed

NONE

Discussed

NONE

ADAMS DOCUMENTS REFERENCED

Accession No. ML15160A409 – 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 2 years.)

Accession No. ML15160A464 – 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: EntergyFacility Docket No.: 50-286Operating Test Administered on: 5/11/2015 – 5/14/2015

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
1	RCDT size incorrectly modelled as 3500 vs 350 gallons.
2	SIT pressure drop when upstream vent opened appears excessive.