



**UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I**

475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

January 18, 2010

Mr. Charles G. Pardee
Senior Vice President, Exelon Generation Company, LLC
President and Chief Nuclear Officer (CNO), Exelon Nuclear
4300 Winfield Rd.
Warrenville, IL 60555

**SUBJECT: PEACH BOTTOM ATOMIC POWER STATION, UNITS 2 AND 3 - NRC
EXAMINATION REPORT 05000277/2009302; 05000278/2009302**

Dear Mr. Pardee:

On December 16, 2009, the U.S. Nuclear Regulatory Commission (NRC) completed an examination at Peach Bottom. The enclosed report documents the examination findings, which were discussed on December 24, 2009, with Mr. F. Bruns of your staff.

The examination included the evaluation of two applicants for reactor operator licenses, eight applicants for instant senior reactor operator licenses, and two applicants for upgrade 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 10 CFR Part 55, and the appropriate licenses were issued on December 24, 2009.

No findings of significance 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 document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

/RA/

Samuel L. Hansell, Jr., Chief
Operations Branch
Division of Reactor Safety

Docket Nos. 50-277; 50-278
License Nos.: DPR-44, DPR-56

Enclosure: NRC Examination Report 05000277/2009302; 05000278/2009302

cc: Distribution via ListServ

cc w/encl:
A. Wasong, Director of Training

Mr. Charles G. Pardee
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A. Wasong, Director of Training

SUNSI Review Complete: *tf (Reviewer's Initials)

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EXAMINATION REPORT
U.S. NUCLEAR REGULATORY COMMISSION
REGION I

Dockets: 50-277 & 50-278

Licenses: DPR-44 and DPR-56

Report: 05000277/2009302; 05000278/2009302

Licensee: Exelon Generation Company, LLC

Facility: Peach Bottom Atomic Power Station, Units 2 and 3

Location: Delta, PA

Dates: December 7-11, 2009 (Operating Test Administration)
December 16, 2009 (Written Examination Administration)
December 23, 2009 (Licensee Submitted Post Exam Package)
December 14-23, 2009 (NRC Examination Grading)
December 24, 2009 (Licenses Issued)

Examiners: T. Fish, Chief Examiner
J. D'Antonio, Sr. Examiner
S. Hansell, Examiner
B. Fuller, Examiner
P. Presby, Examiner
D. Molteni, Examiner

Approved By: Samuel L. Hansell, Jr., Chief
Operations Branch
Division of Reactor Safety

Enclosure

SUMMARY OF FINDINGS

ER 05000277/2009302; 05000278/2009302; December 7-16, 2009; Peach Bottom Atomic Power Station, Units 2 and 3; Initial Operator Licensing Examination Report.

NRC examiners evaluated the competency of two applicants for reactor operator licenses, eight applicants for instant senior reactor operator licenses, and two upgrade senior reactor licenses at the Peach Bottom 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 December 16, 2009. Six NRC examiners administered the operating tests from December 7-11, 2009. The license examiners determined that all applicants satisfied the requirements of 10 CFR Part 55, and the appropriate licenses have been issued.

A. NRC-Identified and Self-Revealing Findings

None

B. Licensee-Identified Violations

None.

REPORT DETAILS

4. OTHER ACTIVITIES (OA)

4OA5 Other Activities (Initial Operator License Examination)

.1 License Applications

a. Scope

The examiners reviewed all twelve license applications submitted by the licensee to ensure the applications reflected that each applicant satisfied relevant 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 examiner also audited two license applications in detail to confirm that they accurately reflected the applicants' qualifications. This audit focused on the applicants' experience, on-the-job training, and eligibility to sit for the instant senior operator license exams.

b. Findings

No findings of significance were identified.

.2 Operator Knowledge and Performance

a. Examination Scope

On December 16, 2009, 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 December 23, 2009.

The NRC examination team administered the various portions of the operating examination to all applicants from December 7-11, 2009. The applicants for reactor operator licenses 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 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. The applicants for an upgrade license participated in two or three dynamic scenarios, a control room and facilities walkthrough test consisting of five system tasks, and an administrative test consisting of five administrative tasks.

b. Findings

All applicants passed all parts of the operating test and the written examination. For the written examinations, the reactor operator applicants' average score was 91.3 percent and ranged from 90.7 to 92.0 percent. The senior reactor operator applicants' overall average score was 90.3 percent and ranged from 83.0 to 98.0 percent. The examination questions may be accessed in the ADAMS system under the accession numbers noted in the attachment.

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

.3 Initial Licensing Examination Development

a. Examination Scope

The facility licensee developed the examinations in accordance with the Examination Standards. All licensee facility training and operations staff involved in examination preparation and validation were on a security agreement. The facility licensee submitted both the written and operating examination outlines on July 16, 2009. The chief examiner reviewed the outlines against the requirements of the Standards, and provided comments to the licensee. The facility licensee submitted the draft examination package on October 19, 2009. The chief examiner reviewed the draft examination package against the requirements of the Standards, and provided comments to the licensee on the examination on October 30, 2009. The examinations were within the range of acceptability for a proposed examination. The NRC conducted an onsite validation of the operating examinations and provided associated comments during the week of November 2, 2009. The facility licensee satisfactorily completed comment resolution on November 18, 2009.

b. Findings

No findings of significance 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 of significance were identified.

.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 the Examination Standards. Plans for simulator security and applicant control were reviewed and discussed with licensee personnel.

b. Findings

No findings of significance were identified.

4OA6 Meetings, Including Exit

The chief examiner presented the examination results to Mr. Fred Bruns of the facility licensee's staff on December 24, 2009.

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

ATTACHMENT 1: SUPPLEMENTAL INFORMATION

ATTACHMENT 1

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensee Personnel

F. Bruns	Facility Exam Developer
J. Verbillis	Facility Exam Developer
J. Maclintock	Operator Training - Initial Programs

ITEMS OPENED, CLOSED, AND DISCUSSED

None

ADAMS DOCUMENTS REFERENCED

Accession No. ML093620012	FINAL-Written Exam
Accession No. ML093620021	FINAL-Operating Exam