



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

September 3, 2010

Mr. Michael J. Pacilio  
Senior Vice President, Exelon Generation Company, LLC  
President and Chief Nuclear Officer, Exelon Nuclear  
4300 Winfield Rd.  
Warrenville, IL 60555

SUBJECT: LIMERICK GENERATING STATION UNITS 1 AND 2 AND  
PEACH BOTTOM ATOMIC POWER STATION UNITS 2 AND 3  
LIMITED SENIOR REACTOR OPERATOR INITIAL EXAMINATION REPORT  
NOS. 05000352/2010301, 05000353/2010301, 05000277/2010301, AND  
05000278/2010301

Dear Mr. Pacilio:

During the weeks of July 19, 2010, and July 26, 2010, the U.S. Nuclear Regulatory Commission (NRC) completed an examination at Limerick Generating Station Units 1 and 2, and Peach Bottom Atomic Power Station Units 2 and 3. The enclosed report documents the examination conclusions, which were discussed on August 26, 2010, with Mr. Corey Goff of your staff.

The examination included the evaluation of six applicants for senior operator licenses limited to fuel handling. 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 six applicants satisfied the requirements of 10 CFR Part 55, and the appropriate licenses were issued on August 26, 2010. 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,

A handwritten signature in black ink, appearing to read "Samuel L. Hansell, Jr.", written over a horizontal line.

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

Enclosure: NRC Examination Report 05000352/2010301, 05000353/2010301,  
05000277/2010301, 05000278/2010301

cc w/enclosure:  
Distribution via ListServ  
R. B. Dickinson, Limerick Director of Training  
A. Wasong, Peach Bottom Director of Training

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/RA/

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

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05000277/2010301, 05000278/2010301

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R. B. Dickinson, Limerick Director of Training

A. Wasong, Peach Bottom Director of Training

SUNSI Review Complete: SLH (Reviewer's Initials)

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NAME	CBixler/SLH	JD'Antonio/SLH	SHansell				
DATE	9/3/10	9/3/10	9/3/10				

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**EXAMINATION REPORT**

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

Dockets: 05000352, 05000353, 05000277, 05000278

Licenses: NPF-39, NPF-85, DPR-44, DPR-56

Report : 05000352/2010301, 05000353/2010301, 05000277/2010301,  
05000278/2010301

Licensee: Exelon Generating Company

Facility: Limerick Generating Station and Peach Bottom Atomic Power Station

Location: Sanatoga, PA  
Delta, PA

Dates: July 21 - July 29, 2010 (Operating Test Administration)  
July 27, 2010 (Written Exam Administration)  
August 10, 2010 (End of Grading Period)

Examiners: Joseph D'Antonio, Chief Examiner, Senior Operations Engineer  
John Caruso, Senior Operations Engineer  
Samuel Hansell, Branch Chief

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

## SUMMARY OF FINDINGS

ER 05000352/2010301, 05000353/2010301, 05000277/2010301, 05000278/2010301;  
July 21-29, 2010; Limerick Generating Station Units 1 and 2 and Peach Bottom Atomic Power  
Station Units 2 and 3; Initial Operator Licensing Examination Report.

NRC examiners evaluated the competency of six applicants for senior operator licenses limited to fuel handling at Limerick Generating Station Units 1 and 2 and Peach Bottom Atomic Power Station Units 2 and 3. 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 July 27, 2010. NRC examiners administered the operating tests during the weeks of July 19 and July 26, 2010. The license examiners determined that all six applicants satisfied the requirements of 10 CFR Part 55, and the appropriate licenses have been issued.

A. NRC-Identified and Self-Revealing Findings

No findings of significance were identified.

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 six 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, on-the-job training, and control manipulations.

###### b. Findings

No findings of significance were identified.

##### .2 Operator Knowledge and Performance

###### a. Examination Scope

On July 27, 2010, the licensee proctored the administration of the written examinations to all six applicants. The licensee staff graded the written examinations, analyzed the results, and presented their analysis to the NRC on August 10, 2010.

The NRC examination team administered the operating examination to all six applicants during the weeks of July 19 and July 26, 2010. The six applicants seeking a senior operator license limited to fuel handling participated in a facilities walkthrough test consisting of ten system tasks, and an administrative test consisting of five administrative tasks.

###### b. Findings

All six of the applicants passed the operating test and written examination. For the written examinations, the applicants' average score was 85 percent and ranged from 82 to 92 percent. The text of the examination questions and the licensee's examination analysis 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 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 those questions that met these criteria and submitted the analysis to the chief examiner. The licensee made no recommendations for changes to the examination.

Enclosure

.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 April 30, 2010. The chief examiner reviewed the outlines against the requirements of NUREG-1021, Revision 9, Supplement 1, and provided comments to the licensee. The facility licensee submitted the draft examination package on May 27, 2010. The chief examiner reviewed the draft examination package against the requirements of NUREG-1021, Revision 9, Supplement 1, and provided comments to the licensee on the examination on June 14, 2010. The NRC conducted an onsite validation of the operating examinations and provided further comments during the week of June 14, 2010. The licensee satisfactorily completed comment resolution prior to administration of the examination.

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 of significance were identified.

.4 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 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. Corey Goff, Operations Training Manager at Limerick Generating Station, in a telephone exit on August 26, 2010. The licensee acknowledged the comments provided.

The licensee 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**

R. B. Dickinson, Limerick Director of Training  
A. Wasong, Peach Bottom Director of Training

**NRC Personnel**

Joseph M. D'Antonio, Chief Examiner

**ITEMS OPENED, CLOSED, AND DISCUSSED**

NONE

**ADAMS DOCUMENTS REFERENCED**

Accession No. ML102420248 – FINAL-Written Exam  
Accession No. ML102420261 – FINAL-Operating Exam