

September 8, 1999

Virginia Electric and Power Company  
ATTN: Mr. J. P. O'Hanlon  
Senior Vice President - Nuclear  
Innsbrook Technical Center  
5000 Dominion Boulevard  
Glen Allen, VA 23060

SUBJECT: NRC RETAKE EXAMINATION REPORT NOS. 50-280/99-302 AND  
50-281/99-302

Dear Mr. O'Hanlon:

On August 24, 1999, the NRC administered a re-take examination to an employee of your company who had applied for a license to operate the Surry Power Station. At the conclusion of the examination, the examiner discussed the examination and preliminary findings with those members of your staff identified in the enclosed report.

The Simulation Facility Report is included in this report as Enclosure 2.

One senior reactor (SRO) applicant who received a re-take operating test passed the re-take examination, representing a 100 percent pass rate. The individual examination report should be reviewed to determine if adjustments to the training program, as well as individual remediation, are necessary.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter and its enclosures will be placed in the NRC Public Document Room. Should you have any questions concerning this letter, please contact me at (404) 562-4638.

Sincerely,

(Original signed by  
H. Christensen)

Harold O. Christensen, Chief  
Operator Licensing and  
Human Performance Branch  
Division of Reactor Safety

Docket Nos. 50-280, 50-281  
License Nos. DPR-32, DPR-37

Enclosures: 1. Report Details  
2. Simulation Facility Report

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**\*FOR PREVIOUS CONCURRENCE SEE ATTACHED SHEET**

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 U.S. Nuclear Regulatory Commission  
 Surry Nuclear Power Station  
 5850 Hog Island Road  
 Surry, VA 23883

NRC Resident Inspector  
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**U. S. NUCLEAR REGULATORY COMMISSION**

**REGION II**

**Docket Nos.:** 50-280, 50-281  
**License Nos.:** DPR-32, DPR-37

**Report Nos.:** 50-280/99-302, 50-281/99-302

**Licensee:** Virginia Electric and Power Company (VEPCO)

**Facility:** Surry Power Station, Units 1 & 2

**Location:** 5850 Hog Island Road  
Surry, VA 23883

**Date:** August 24, 1999

**Examiner:** Richard S. Baldwin, Chief License Examiner

**Approved by:** Harold O. Christensen, Chief  
Operator Licensing and Human  
Performance Branch  
Division of Reactor Safety

Enclosure 1

## EXECUTIVE SUMMARY

### Surry Nuclear Power Station Units 1 & 2 NRC Examination Report Nos. 50-280/99-302 and 50-281/99-302

During August 24, 1999, an NRC examiner conducted an announced operator licensing initial re-take examination in accordance with the guidance of Examiner Standards, NUREG-1021, Interim Revision 8. This examination implemented the operator licensing requirements of 10 CFR §55.45.

One Senior Reactor Operator (SRO) candidate received a Part B re-take operating examination. The operating test was administered by the NRC on August 24, 1999.

#### Operations

- The submitted operating test met the requirements of NUREG-1021. The licensee's submittal was considered satisfactory. (Section O5.1)
- The SRO candidate passed the examination. (Section O5.1)
- Overall performance on the re-take operating test was satisfactory. (Section O5.1)
- Candidate Pass/Fail

	SRO	RO	Total	Percent
Pass	1	0	1	100
Fail	0	0	0	0

## Report Details

### I. Operations

#### **O5 Operator Training and Qualifications**

##### **O5.1 Initial Licensing Examinations**

###### **a. Scope**

An NRC examiner conducted a regular, announced operator licensing initial re-take examination on August 24, 1999. The NRC examiner administered an examination developed by the licensee's training department, under the requirements of an NRC security agreement, in accordance with the guidelines of the Examiner Standards (ES), NUREG-1021, Interim Revision 8. One Senior Reactor Operator upgrade (SRO(U)) received a Part B re-take operating examination.

###### **b. Observations and Findings**

The licensee developed the SRO Part B Job Performance Measure (JPM) set for use during this examination. All materials were submitted to the NRC on schedule. The NRC examiners reviewed, modified as necessary, and approved the examination prior to administration. The NRC conducted an on-site preparation visit during the week of the examination to validate examination materials and familiarize themselves with the details required for examination administration.

###### **Operating Test Development**

The NRC reviewed one Part B walkthrough examination submitted by the facility, for one SRO(U). This was comprised of three simulator and two in-plant JPMs. The examiner found the JPMs were developed at the appropriate level as described in NUREG-1021. There were two JPM questions that were considered direct look-up which lacked operational validity. These questions were either changed or references were not allowed to answer these questions.

###### **Examination Results**

The NRC noted that the quality of the licensee's proposed examination was satisfactory.

The review of this operating re-take examination revealed the SRO candidate passed the examination. The examiner identified one weakness in candidate performance during the operations portion of the examination. Details of the weakness are described in the individual's examination report, Form ES-303-1, "Operator Licensing Examination Report." Copies of the evaluation were forwarded under separate cover to the training manager in order to enable the licensee to evaluate the weakness and provide appropriate remedial training for that operator, as necessary. In general, the weakness concerned the use of radiation adverse containment numbers.

c. Conclusion

The submitted examination met the requirements of NUREG-1021. The candidate passed the examination. Overall performance on the operating test was satisfactory.

**V. Management Meetings**

**X1. Exit Meeting Summary**

At the conclusion of the site visit, the examiners met with representatives of the plant staff listed on the following page to discuss the results of the examinations and other issues. No proprietary material was provided.

PARTIAL LIST OF PERSONS CONTACTED

Licensee:

- M. Crist, Superintendent-Operations
- D. Dickey, Operations Instructor
- B. Garber, Licensing
- E. Grecheck, Site Vice President
- W. Henry, Shift Supervisor, Operations
- D. Llewellyn, Superintendent-Nuclear Training
- H. McCallum, Supervisor-Operations Training
- D. Modlin, Oversight Department
- E. Shore, Operations Instructor
- R. Simmons, Operations Instructor
- M. Smith, Station Nuclear Safety
- J. Spence, Operations Instructor
- K. Spencer, Operations Instructor
- A. Stanley, Operations Instructor
- S. Stanley, Licensing
- T. Swindell, Radiation Protection

NRC:

- R. Musser, Senior Resident Inspector, Surry
- M. Sykes, Examiner, RII

ITEMS OPENED, CLOSED, AND DISCUSSED

Opened:

None

Closed:

None

Discussed:

None



## SIMULATION FACILITY REPORT

Facility Licensee: Virginia Power - Surry Power Station Units 1 & 2

Facility Docket Nos.: 50-280 and 50-281

Operating Tests Administered on: August 24, 1999

This form is to be used only to report observations. These observations do not constitute audit or inspection findings and are not, without further verification and review, indicative of noncompliance with 10 CFR 55.45(b). These observations do not affect NRC certification or approval of the simulation facility other than to provide information that may be used in future evaluations. No licensee action is required in response to these observations.

While conducting the simulator portion of the operating tests, the following items were observed:

<u>ITEM</u>	<u>DESCRIPTION</u>
There were no simulator fidelity problems.	