

ENCLOSURE 1

01

EXAMINATION REPORT - 50-395/OL-86-02

Facility Licensee: South Carolina Electric and Gas Company  
ATTN: Mr. D. A. Nauman, Vice President  
Nuclear Operations  
P. O. Box 764 (167)  
Columbia, SC 29218

Facility Name: V. C. Summer

Facility Docket No.: 50-395

Written and operating examinations were administered at V. C. Summer near Jenkinsville, South Carolina.

Chief Examiner: J. H. Munro II for 11-12-86  
T. Rogers Date Signed

Approved by: John E. Munro 11-12-86  
John E. Munro, Section Chief Date Signed

Summary:

Examinations on August 13, 1986 and September 12, 1986.

Oral and simulator examinations were administered to three candidates; two of whom passed. Four candidates were administered written examinations; three of four candidates passed.

Based on the results described above, the one RO candidate did not pass and the two SRO (IC) candidates did pass. Oral and Simulator examinations will be administered to the remaining SRO (IC) candidate at a later date.

## REPORT DETAILS

### 1. Facility Employees Contacted:

- \*J. Heilman, Associate Manager, Nuclear Operations Education and Training
- \*T. Matlosz, Nuclear Operations Training Supervisor
- \*M. Williams, Manager, Nuclear Operations Education and Training

\*Attended Exit Meeting

### 2. Examiners:

- C. Casto
- J. Munro
- \*T. Rogers
- J. Moorman
- J. Arildsen

\*Chief Examiner

### 3. Examination Review Meeting

At the conclusion of the written examinations, the examiners provided T. L. Matlosz with a copy of the written examination and answer key for review. The comments made by the facility reviewers are included as Enclosure 3 to this report, and the NRC Resolutions to these comments are listed below.

#### a. SRO Examination - Analogous RO questions are in parenthesis

Question 5.01 b.3.

NRC Resolution:

Utility comments not accepted. Due to insufficient detail provided in the enclosure to support the facility comment, no change to the answer key is warranted. Training materials should be updated to reflect this information.

Question 5.13 (1.14)

NRC Resolution:

Utility comment accepted. Additional answers from Technical Specification 3/4.1.3 bases are acceptable for full credit. V. C. Summer Reactor Theory publications should be modified to reflect this information.

## Question 6.05 (2.08)

A post-examination review of this question by the examiners determined that this question should be deleted since many of the sources of water to the BRS are not "systems" as stated in the question. The utilities training material, including Systems Descriptions AB-11, should be corrected to properly categorize these sources of water.

## Question 6.06 (2.09)

NRC Resolution:

Utility comment accepted. Question deleted due to equipment removal. Training materials have not incorporated these plant changes. Such materials should be modified to reflect current plant design.

## Question 6.14 (2.16)

NRC Resolution:

Utility comment not accepted. The utilities system description of the service water system clearly describes the capability for independent loop operation. This requires that a "specific back-up source of emergency feedwater" be identified in such a manner as to be loop specific.

## Question 7.11

NRC Resolution:

Utility comment accepted. The answer is modified not to require parameter values.

## Question 7.20

NRC Resolution:

Utility comment accepted. Either "for life saving operations" or "for search and rescue for KNOWN missing persons" is acceptable.

## Question 7.22 (4.22)

NRC Resolution:

Utility comment accepted. Due to the lack of question specificity, either the original answer or any one of the additional answers provided for SOP-114 is acceptable for full credit. The utilities systems description, IC-5, should be modified to reflect the explicit systematic requirements.



## Question 7.23 b. (4.23)

## NRC Resolution:

Utility comment not accepted. The utilities procedure GOP-3 clearly states the review requirement of within four hours of criticality. This will be true despite any postulated delays which may further limit the time of review. (i.e. The completion of the ECC calculation being less than three hours prior to criticality, such as could be postulated due to a recalculation required by the criticality no longer expected to occur within the two hours of the initial estimated time of criticality.) Therefore, the answer remains unchanged. However, full credit will be given for a specific answer stating the requirement to "Recalculate or reverify" the ECC if criticality will not occur within 2 hours of the estimated time of criticality (REP-109.001).

## b. RO Examination

## Question 3.09

## NRC Resolution:

Utility comment accepted. The additional answer from the Westinghouse Tech Manual for solid state protection system is acceptable as one of the three answers required for full credit. The utilities training material, including Systems Description IC-9, should be modified to reflect this additional information.

4. Exit Meeting

At the conclusion of the site visit, the examiners met with representatives of the plant staff to discuss the results of the examination.

There were no generic weaknesses noted during the oral examination.

The cooperation given to the examiners and the effort to ensure an atmosphere in the control room conducive to oral examinations was also noted and appreciated.

The licensee did not identify as proprietary any of the material provided to or reviewed by the examiners.