

APR 3 1974

Docket Nos. 50-280  
and 50-281

Virginia Electric and Power Company  
ATTN: Mr. Stanley Ragone  
Senior Vice President  
Post Office Box 26666  
Richmond, Virginia 23261

Change No. 14  
License Nos. DPR-32  
and DPR-37

Gentlemen:

By letter dated January 23, 1974, you submitted a proposed change to the Technical Specifications appended to Provisional Operating Licenses Nos. DPR-32 and DPR-37, as amended, for Surry Units Nos. 1 and 2. The proposed change would modify the minimum water volume required in the accumulators associated with the safety injection system and would update the organizational chart included in these Technical Specifications.

We have completed our review of the proposed change and have designated our action as Change No. 14. We have also included in our action, as discussed with members of your staff, certain changes to the Station Reporting Requirements in Section 6 of the Technical Specifications to meet Regulatory requirements. These specific changes are required to bring the Technical Specifications in conformance with the Regulatory Guide 1.16, "Reporting of Operating Information" (Revision 1 issued October 1973). These changes to the reporting requirements in Section 6 of the Technical Specifications are effective April 22, 1974, in accordance with your telephone request of March 8, 1974.

We conclude that the proposed change, as modified, does not involve a significant hazards consideration and there is reasonable assurance that the health and safety of the public will not be endangered. Pursuant to 10 CFR Part 50, Section 50.59, the Technical Specifications appended to Licenses Nos. DPR-32 and DPR-37 are changed as shown in Attachment A.

Sincerely,

Original signed by  
Donald J. Skovholt

Donald J. Skovholt  
Assistant Director for  
Operating Reactors  
Directorate of Licensing

RG.  
CJP.

Enclosures and cc on next page

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Enclosures:

1. Attachment A - Change No. 14 to the Technical Specifications
2. Safety Evaluation

cc w/enclosures:

George D. Gibson, Esquire  
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Richmond, Virginia 23213

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PFCollins, L:OLB

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ACRS (16)

RO (3)

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SURNAME ➤	LMcDonough:dc	RJSchemel	DJskovholt		
DATE ➤	3/29/74	4/2/74	4/3/74		

ATTACHMENT A

CHANGE NO. 14 TO THE TECHNICAL SPECIFICATIONS

OPERATING LICENSES NOS. DPR-32 AND DPR-37

VIRGINIA ELECTRIC AND POWER COMPANY

DOCKET NOS. 50-280 AND 50-281

1. Section 1.0, Subparagraph I

The following two definitions are replacements for subparagraphs 3 and 5:

"3. An uncontrolled or unplanned release of radioactive material from the site boundary."

"5. Uncontrolled or unanticipated changes in reactivity equal to or greater than 1% delta k/k."

2. Change Paragraph 3.3.A.2 to read as follows:

"2. Each accumulator is pressurized to at least 600 psig and contains a minimum of 925 ft<sup>3</sup> and a maximum of 939 ft<sup>3</sup> of borated water with a boron concentration of at least 1950 ppm."

3. At the top of Page 3.3-7, insert the following new paragraph:

"The accumulators are able to accept leakage from the Reactor Coolant System without any effect on their availability. Allowable inleakage is based on the volume of water than can be added to the initial amount without exceeding the volume given in Specification 3.3.A.2. The maximum acceptable inleakage is 14 cubic feet per tank."

4. Replace Figure 6.1-1 with the attached figure.

5. Section 6.6, Specification A - Routines Operating Reports - Revise the first sentence to read as follows:

"A report covering a six-month period shall be submitted in writing to the Director of the Regional Regulatory Operations Office within 60 days after January 1 and July 1 of each year."

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6. Add the following new Subparagraphs 10 and 11 under Section 6.6, Specification A:

"10. Occupational Personnel Radiation Exposure

Tabulate the number of personnel exposures for facility operations personnel (permanent and temporary) in the following exposure increments for the reporting period:

less than 100 mrem, 100-250 mrem, 250-500 mrem,  
500-750 mrem, 750-1000 mrem, 1-2 rem, 2-3 rem,  
3-4 rem, 4-5 rem, 5-6 rem, and greater than  
6 rem.

Tabulate the number of personnel receiving more than 500 mrem exposure in the reporting period according to duty function, i.e., routine plant surveillance and inspection (regular duty), routine plant maintenance, special plant maintenance (describe maintenance), routine refueling operations, special refueling operations (describe operation), and other job related exposures. Annually tabulate the number of personnel receiving more than 3 rem and report major cause(s).

11. Primary Coolant Chemistry

A tabulation on a monthly basis of the maximum, average, and minimum values for the following primary coolant system parameters:

- (i) gross radioactivity in uCi/ml,
- (ii) suspended solids in parts per million,
- (iii) gross tritium in uCi/ml,
- (iv) iodine-131 in uCi/ml,
- (v) ratio of iodine-131 to iodine-133,
- (vi) hydrogen in cc per kg,
- (vii) lithium in parts per million,
- (viii) boron-10 in parts per million,
- (ix) oxygen-16 in parts per billion,
- (x) chloride in parts per million, and
- (xi) pH at 25°C."

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7. Section 6.6, Specification B, Subparagraph 1 - Abnormal Occurrence Reports - Revise Subparagraph 1 to read as follows:

"1. Abnormal Occurrence Reports

A notification shall be made within 24 hours by telephone and telegraph to the Director of the Regional Regulatory Operations Office (cc to the Director of Licensing) followed by a written report within 10 days to the Director of the Regional Regulatory Operations Office in the event of an abnormal occurrence. The written abnormal occurrence report should follow the format presented in Regulatory Guide 1.16."

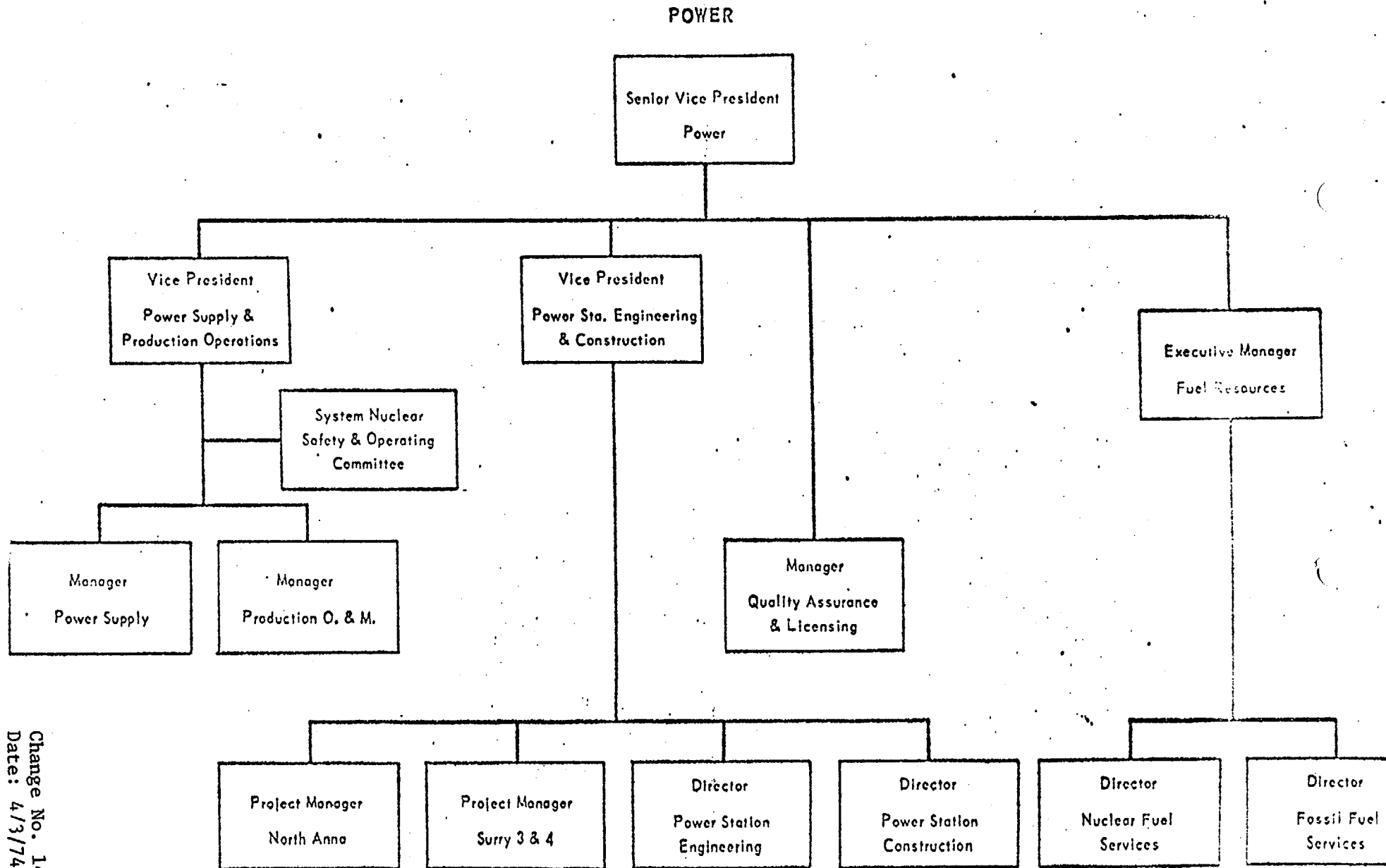
Subparagraph 2 - Reporting of Unusual Safety Events - Revise the first sentence to read as follows:

"A written report shall be forwarded within 30 days to the Director of the Regional Regulatory Operations Office in the event of an unusual safety related event."

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FIGURE 6.1-1

VIRGINIA ELECTRIC AND POWER COMPANY  
ORGANIZATION CHART



Change No. 14  
Date: 4/3/74

UNITED STATES ATOMIC ENERGY COMMISSION

SAFETY EVALUATION BY THE DIRECTORATE OF LICENSING

VIRGINIA ELECTRIC POWER AND LIGHT COMPANY

DOCKET NOS. 50-280 AND 50-281

By letter dated January 23, 1974, Virginia Electric Power and Light Company submitted a proposed change to the Technical Specifications for Surry Units 1 and 2. The proposed change would set a new limit on minimum water volume for the safety injection system accumulators and update the organizational chart included in these Technical Specifications.

The accumulators (one for each loop) discharge into the cold legs of the reactor coolant piping when the coolant system pressure decreases below accumulator pressure, thus, assuring rapid injection of cooling water in the event of a loss-of-coolant accident. Accumulator parameters to meet performance requirements are determined by an analysis presented in the SAR and independently verified by the staff. The minimum coolant volume established in the Surry Units 1 and 2 ECCS analysis was 925 ft<sup>3</sup>. The maximum allowable volume is 939 ft<sup>3</sup>. The Technical Specifications at present limit the minimum coolant volume at 934 ft<sup>3</sup> and the maximum volume at 939 ft<sup>3</sup>. These limits on coolant volume presents operational difficulties since the uncertainty in measurement ( $\pm 2.2$  ft<sup>3</sup>) requires control in the narrow band of .6 ft<sup>3</sup> in the permissible range of 5 ft<sup>3</sup> (939 ft<sup>3</sup> - 934 ft<sup>3</sup>). In the course of our review, we have determined that sound technical justification exists for a minimum coolant volume of 925 ft<sup>3</sup>. A minimum limit of 925 ft<sup>3</sup> will reduce operational difficulty in that the control band can be expanded to 9.6 ft<sup>3</sup> in the permissible range of 14 ft<sup>3</sup> (939 ft<sup>3</sup> - 925 ft<sup>3</sup>).

The proposed changes to Section 6.1-1 reflect organizational changes that went into effect within VEPCO on January 1, 1974, and are found acceptable.

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Based on the above, we have concluded this change will not involve any significant hazards consideration and that there is reasonable assurance that the health and safety of the public will not be endangered.

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Leo McDonough  
Operating Reactors Branch #1  
Directorate of Licensing

Original signed by  
Robert J. Schemel

Robert J. Schemel, Chief  
Operating Reactors Branch #1  
Directorate of Licensing

Date: APR 3 1974

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