

JUN 1 8 1975

Docket No. 50-261

Carolina Power & Light Company  
ATTN: Mr. J. A. Jones  
Senior Vice President  
336 Fayetteville Street  
Raleigh, North Carolina 27602

Gentlemen:

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We have sent to licensees that have not submitted their reevaluation of the ECCS the enclosed generic issues that must be discussed and, where appropriate, resolved by proposed plant modifications and changes to the Technical Specifications. Your reevaluation of the ECCS dated March 14, 1975, does not cover all these issues, therefore, we are enclosing the listing and discussion of these additional requirements for your review and update of your reevaluation. You will find that some of the generic issues identified herein were discussed previously in our earlier letters; nevertheless, to assure your submittal is complete in this respect, we have enclosed a listing and discussion of these additional requirements for information. We have made no attempt to adjust this listing and discussion to the unique design and operating features for your facility; therefore, you must appropriately modify the enclosed document for the preparation of your response.

Should you have any question concerning your implementation of this request for additional information, we will be pleased to advise or to meet with you.

This request for generic information was approved by GAO under a blanket clearance number B-180225 (R0072); clearance expires July 31, 1977.

Sincerely,

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George Lear, Chief  
Operating Reactors Branch #3  
Division of Reactor Licensing

Enclosure:  
Request for Additional Information

ECCS  
(2)

cc: See next page

OFFICE ➤	ORB#3 <i>DB</i>	ORB#3				
SURNAME ➤	DBridges:kmf	GLear <i>GL</i>				✓
DATE ➤	6/ 17 /75	6/ 18 /75				

Carolina Power & Light Company

JUN 1 8 1975

cc:

G. F. Trowbridge, Esquire  
Shaw, Pittman, Potts, Trowbridge & Madden  
Barr Building  
910 17th Street, N. W.  
Washington, D. C. 20006

Hartsville Memorial Library  
Home and Fifth Avenue  
Hartsville, South Carolina 29550

## Attachment 1

### REQUIRED INFORMATION

#### 1. Break Spectrum and Partial Loop Operation

The information provided for each plant shall comply with the provisions of the attached memorandum entitled, "Minimum Requirements for ECCS Break Spectrum Submittals."

#### 2. Potential Boron Precipitation (PWR's Only)

The ECCS system in each plant should be evaluated by the applicant (or licensee) to show that significant changes in chemical concentrations will not occur during the long term after a loss-of-coolant accident (LOCA) and these potential changes have been specifically addressed by appropriate operating procedures. Accordingly, the applicant should review the system capabilities and operating procedures to assure that boron precipitation would not compromise long-term core cooling capability following a LOCA. This review should consider all aspects of the specific plant design, including component qualification in the LOCA environment in addition to a detailed review of operating procedures. The applicant should examine the vulnerability of the specific plant design to single failures that would result in any significant boron precipitation.

#### 3. Single Failure Analysis

A single failure evaluation of the ECCS should be provided by the applicant (or licensee) for his specific plant design, as required by Appendix K to 10 CFR 50, Section I.D.1. In performing this evaluation, the effects of a single failure or operator error that causes any manually controlled, electrically-operated valve to move to a position that could adversely affect the ECCS must be considered. Therefore, if this consideration has not been specifically reported in the past, the applicants upcoming submittal must address this consideration. Include a list of all of the ECCS valves that are currently required by the plant Technical Specifications to have power disconnected, and any proposed plant modifications and changes to the Technical Specifications that might be required in order to protect against any loss of safety function caused by this type of failure. A copy of Branch Technical Position EICSB 18 from the U.S. Nuclear Regulatory Commission's Standard Review Plan is attached to provide you with guidance.

The single failure evaluation should include the potential for passive failures of fluid systems during long term cooling following a LOCA as well as single failures of active components. For PWR plants, the single failure analysis is to consider the potential boron concentration problem as an integral part of long term cooling.

#### 4. Submerged Valves

The applicant should review the specific equipment arrangement within his plant to determine if any valve motors within containment will become submerged following a LOCA. The review should include all valve motors that may become submerged, not only those in the safety injection system. Valves in other systems may be needed to limit boric acid concentration in the reactor vessel during long term cooling or may be required for containment isolation.