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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

SEPTEMBER 2 4 1980

Docket Nos. 50-325
and 50-324

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

Dear Mr. Jones:

By our letter dated August 7, 1978, we informed you of deficiencies we identified in the design of the Hatch 2 regulator system for the motor generator (M-G) sets which supply power to the reactor protection system (RPS). In general, the problem involved the possibility of the M-G producing power which was of a quality (High/low outage, etc.) that could be outside that for which the RPS has been demonstrated to be acceptable. Specifically, the deficiencies involved:

(1) Potential sequence of undetected single component failures which could adversely affect the operability of the RPS; and

(2) Postulated component malfunctions initiated by a seismic event which could adversely affect the operability of the RPS.

Our letter requested that you review your RPS power supply to determine if your system was susceptible to the same adverse possibilities that tthe staff had identified for Hatch 2.

We have completed our review of your response to our request and have determined that the power supply RPS design at your facility is such that it could experience the same adverse conditions as described above. Accordingly, we have determined that modifications should be performed to provide fully redundant Class 1E protection at the interface of the non-Class 1E power supplies and the RPS. We believe that the use of alarms or shift surveillance is acceptable as an interim measure but is not adequate for the long-term solution of our concerns.

We have found that the conceptual design proposed by the General Electric Company and the installed modification on Hatch 1 are acceptable solutions to our concern.

In view of the above, we believe that you should modify the power supply for the RPS at your facility. This modification should be implemented by the end of the next refueling outage. Should this scheduled outage occur within the next six months, the modifications should be accomplished by the end of the subsequent refueling outage. We will perform a post-implementation review of your modification and will require appropriate Technical Specifications for the system.

We request that you provide within 60 days of your receipt of this letter: your (1) commitment to install a Class 1E system, (2) schedule for completion of the modification and (3) schedule for submission of design information and proposed Technical Specifications.

Sincerely,

Thomas A. Ippolito, Chief
Operating Reactors Branch #2
Division of Licensing

cc: See next page

cc:

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