



Carolina Power & Light Company

SERIAL: NLS-84-499

DEC 10 1984

Mr. Darrell G. Eisenhut, Director  
Division of Licensing  
United States Nuclear Regulatory Commission  
Washington, DC 20555

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2  
DOCKET NOS. 50-325 & 50-324/LICENSE NOS. DPR-71 & DPR-62  
RESPONSE TO GENERIC LETTER NO. 84-23  
REACTOR VESSEL WATER LEVEL INSTRUMENTATION

Dear Mr. Eisenhut:

By letter dated October 26, 1984 (Generic Letter 84-23), Carolina Power & Light Company (the Company) was requested to submit a description of its plans and schedule for implementation of the three potential improvement categories for BWR water level measurement and instrumentation systems presented in Generic Letter 84-23.

The first improvement category suggested modifications to reduce level indication errors caused by high drywell temperature. The Company is currently pursuing engineering assistance in evaluating potential design modifications such as reference leg cooling and reduction of vertical drops in the drywell. Due to the engineering effort necessary to evaluate potential solutions to the problem of high drywell temperature, an implementation plan and schedule cannot be provided within the 30 days requested by the Generic Letter. Carolina Power & Light Company anticipates the engineering evaluation to be completed by October 1985 with submittal of our planned improvements by December 31, 1985. Any modifications resulting from the engineering evaluation will be incorporated into the five-year program being developed for Brunswick.

The second improvement category recommends replacement of mechanical level indication equipment with analog level transmitters. An analog trip system has already been installed at Brunswick. Reactor water level indication is included in this system.

The final improvement category, dealing with changes to the protection system logic, is still being evaluated by the NRC. The Company will address this category when a final recommendation is made.

Should you have any questions concerning this matter, please contact Mr. Sherwood R. Zimmerman at (919) 836-6242.

Yours very truly,

A. B. Cutter - Vice President  
Nuclear Engineering & Licensing

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PDR ADOCK 05000324  
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MAT/crs (906MAT)

cc: Mr. D. O. Myers (NRC-BNP)  
Mr. J. P. O'Reilly (NRC-RII)  
Mr. M. Grotenhuis (NRC)

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