REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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FACIL:50-261 H. B. Robinson Plant, Unit 2, Carolina Power and Ligh 05000261
AUTH.NAME AUTHOR AFFILIATION
UTLEY,E.E. Carolina Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION
VARGA,S.A. Operating Reactors Branch 1

SUBJECT: Requests verification that expanded study re adequacy of station electric distribution sys voltages,per 810113 ltr & 810317 telcon will satisfy all issues.

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Carolina Power & Light Company

June 17, 1981

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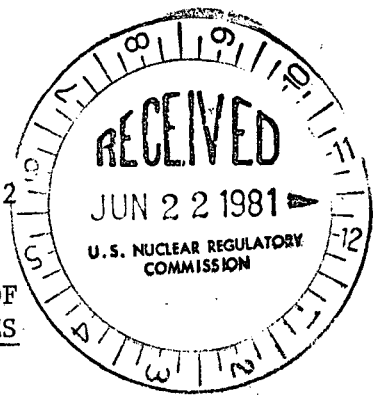
Mr. Steven A. Varga, Chief
Office of Nuclear Reactor Regulation
Operations Reactors Branch No. 1
United States Nuclear Regulatory Commission
Washington, D. C. 20555



H. B. ROBINSON STEAM ELECTRIC PLANT UNIT NO. 2
DOCKET NO. 50-261
LICENSE NO. DPR-23
ADDITIONAL INFORMATION CONCERNING ADEQUACY OF STATION ELECTRIC DISTRIBUTION SYSTEM VOLTAGES

Dear Mr. Varga:

In your January 13, 1981 letter to Mr. J. A. Jones, you requested additional information to continue your review of the adequacy of Station Electric Distribution System Voltage at H. B. Robinson Steam Electric Plant, Unit No. 2. Your letter was clarified by telephone conference between a member of your staff and the plant staff on March 17, 1981.

In order to provide this additional information, an expanded study of the H. B. Robinson Steam Electric Plant, Unit 2 Station Electric Distribution System Voltage will be performed and will include the following based on our understanding as a result of the above telephone conference:

1. A system analysis using initial conditions of the system grid at 0.95 p.u. with 100% power operation at name plate rating with safety injection initiated.

2. A system analysis using initial conditions of the grid at 1.06 p.u. with all plant buses in their most lightly loaded condition.

3. A tabulation of the load terminal voltages for steady state and transient conditions on the 4160, 480, 208, and 120-volt buses based upon results of analyses conducted in 1 and 2 above.

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4. An in-plant test to measure and record the loads and impedances during steady state, starting of a large 4160-volt motor and starting of a large Class 1E motor for comparison with and verification of results of analyses obtained by calculations with an explanation of any variances between the analytical and test results.

Current projections indicate that the aforementioned analysis work should be completed by August 31, 1981. The in-plant test (item 4) will be scheduled during the next refueling outage with a final report addressing all issues in your referenced letter being submitted thereafter.

Because of previous delays resulting from a misunderstanding of the issues involved, it is requested that your staff review the above approach, relative to your request of January 13, 1981, and verify that the described expanded study will satisfy all issues.

If you have any questions on this subject, please contact my staff.

Yours very truly,

E. E. Utley
Executive Vice President
Power Supply and
Engineering & Construction

MSG/jc (8983)

cc: Mr. J. D. Neighbors