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 AUTH.NAME AUTHOR AFFILIATION
 MCDUFFIE,M.A. Carolina Power & Light Co.
 RECIP.NAME RECIPIENT AFFILIATION

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SUBJECT: Responds to NRC Bulletin 88-008, "Thermal Stresses in Piping
 Connected to RCS."

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Carolina Power & Light Company

P. O. Box 1551 • Raleigh, N. C. 27602

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M. A. McDUFFIE
Senior Vice President
Nuclear Generation

United States Nuclear Regulatory Commission
ATTENTION: Document Control Desk
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H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-261/LICENSE NO. DPR-23
RESPONSE TO NRC BULLETIN 88-08

Gentlemen:

Carolina Power & Light Company hereby submits information requested by NRC Bulletin 88-08, "Thermal Stresses in Piping Connected to Reactor Coolant Systems," for the H. B. Robinson Steam Electric Plant, Unit 2 (HBR2). This bulletin requested that licensees review their reactor coolant systems to identify any connected, unisolable piping that could be subjected to temperature distributions which would result in unacceptable thermal stresses, and take action, where such piping is identified, to ensure that piping will not be subjected to unacceptable thermal stresses. Carolina Power & Light Company has completed an evaluation of the systems connected to the RCS at HBR2 and determined that there are no unisolable piping systems that have the potential for inducing unacceptable thermal stresses as defined in NRC Bulletin 88-08.

Specifically, the following connections to the Reactor Coolant System were evaluated:

- Safety Injection - Three cold leg connections; two hot leg connections
- RTD Bypass Manifolds - Five connections per loop
- RCS Loop Flow Connection - Four per loop
- RCS Letdown, Excess Letdown, Loop Drains, Cold Shutdown RCS Level Connection, Reactor Vessel Flange Leak Detection Connections, RVLIS Connections, Loop Vent Connections, RTD Bypass Manifold Vents and Drains, Wide Range RTD Wells, RCS Pressure, and Pressurizer Level Indication Taps
- Reactor Head Vent and Pressurizer Steam Space Vent
- Incore Thimble Guide Tubes
- Reactor Coolant Pump Seal Water Injection

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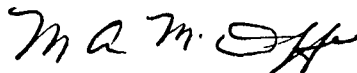
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- RCS Loop Sampling (two connections) and Pressurizer Steam Space and Pressurizer Vapor Space Sampling Connections
- RCS Loop "B" RHR Connection
- Pressurizer Spray (two connections) and Pressurizer Surge Line Connection
- Pressurizer PORVs and Safety Valves
- RCS Loop 1 Charging Connection
- RCS Loop 2 Charging Connection
- Auxiliary Spray Connection - Charging Line for Auxiliary Spray to Pressurizer Spray Line

Of the above, only the Charging Line connection to the Pressurizer Spray Line used for Auxiliary Spray involved potential conditions similar to that presented in the Bulletin. A detailed subsequent evaluation, however, revealed that due to differences in fluid temperature, piping configuration and volume, and type of weld involved, this connection also would not be susceptible to the Bulletin concerns.

Documentation of the above evaluations is available for review. If you have any questions concerning this subject, please contact Mr. L. I. Loflin.

Yours very truly,



M. A. McDuffie

JHE/dtw (5469JHE)

cc: Dr. J. Nelson Grace
Mr. R. Lo
Mr. L. Garner (NRC - HBR)

M. A. McDuffie, having been first duly sworn, did depose and say that the information contained herein is true and correct to the best of his information, knowledge and belief; and the sources of his information are officers, employees, contractors, and agents of Carolina Power & Light Company.

My commission expires: 11/27/89


Notary (Seal)

