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

SUBJECT: Application for amend to License DPR-23, changing Tech Specs  
 to allow use of 10 spent fuel assembly storage locations  
 previously to be maintained as spares.

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Carolina Power & Light Company

SERIAL: LAP-83-536

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Director of Nuclear Reactor Regulation  
Attention: Mr. Steven A. Varga, Chief  
Operating Reactors Branch No. 1  
Division of Licensing  
United States Nuclear Regulatory Commission  
Washington, DC 20555

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2

DOCKET NO. 50-261

LICENSE NO. DPR-23

REQUEST FOR LICENSE AMENDMENT

UTILIZATION OF 10 SPARE SPACES FOR SPENT FUEL ASSEMBLY STORAGE

Dear Mr. Varga:

Summary

In accordance with the Code of Federal Regulations, Title 10, Parts 50.90 and Part 2.101, Carolina Power & Light Company (CP&L) hereby requests revisions to the Technical Specifications (TS) for H. B. Robinson Steam Electric Plant Unit No. 2 (HBR2). The proposed revision of the existing TS would allow use of 10 spent fuel assembly (SFA) storage locations which had previously been intended to be maintained as spares.

Details

By the issuance of License Amendment 69, dated June 8, 1982, and the subsequent TS changes, the spent fuel storage capacity at HBR2 was expanded to 544 spaces, 10 of which were administratively controlled as unused spares. Carolina Power & Light Company now requests that approval be granted for the 10 spare spaces to be utilized for SFA storage. The bases for the original criticality analysis assumed an infinite lattice of fuel assemblies in the spent fuel pool (SFP), thus demonstrating the SFP's capacity to safely contain the proposed 544 assemblies. The SFP has been structurally analyzed as if all the 544 spaces for fuel cells were loaded. Thus, there are no structural constraints involved in using the spare spaces for additional fuel storage. Ebasco Services Incorporated performed a revised analysis of the decay heat load on the high density spent fuel storage racks to account for the additional contribution of the 10 spare storage spaces when filled with 8 year old fuel assemblies, and with 10 year old fuel assemblies when no space is allotted for full core reserve. The results of the analysis confirm that the additional heat load resulting from use of the ten spare spaces will not exceed the original heat load stated in the spent fuel storage expansion amendment.

In addition, Technical Specification 5.4.2 has been revised to more accurately describe the design of the spent fuel storage racks.

Significant Hazards

Carolina Power & Light Company has reviewed this request and determined that the proposed TS revisions involve no significant hazards consideration because the proposed changes have been analyzed and found to be

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bounded within the analyses and assumptions approved by NRC in Amendment 69 (Spent Fuel Pool Expansion). The Commission has provided guidance concerning the application of its standards set forth in 10 CFR 50.92 for no significant hazards considerations by providing certain examples published in the Federal Register on April 6, 1983 (48 FR 14864). One of the examples of an amendment which will likely be found to involve no significant hazards considerations is a change which may either result in some increase to the probability or consequences of a previously-analyzed accident, or may reduce in some way a safety margin, but where the results of the change are clearly within all acceptable criteria with respect to the system or component specified in the Standard Review Plan: for example, a change resulting from the application of a small refinement of a previously used calculational model or design method. The attached proposed changes are similar to the Commission's example (vi) of a change not likely to involve a significant hazards consideration.

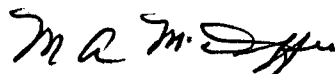
#### Administrative

These revisions represent a single Class III Amendment as defined in 10 CFR 170.22, and require a \$4,000 fee. A check for that amount is attached accordingly.

The affected pages are enclosed for your use. Changes are denoted by vertical bars in the right margin.

If you have any questions regarding this request, please contact a number of the Nuclear Licensing staff.

Yours very truly,



M. A. McDuffie  
Senior Vice President  
Nuclear Generation

MAM/kjr (8511NLU)  
Attachments

cc: Attorney General (SC)  
Mr. J. P. O'Reilly (NRC-RII)  
Mr. G. Requa (NRC)  
Mr. Heyward G. Shealy (SC)  
Mr. Steve Weise (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: 5/18/88

