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

SUBJECT: Application to amend License DPR-23, changing Tech Spec Sections 2.3, 3.10, 3.11 & 4.11 to provide reduced temp program for Cycle 9 operation, W/Class III amend fee.

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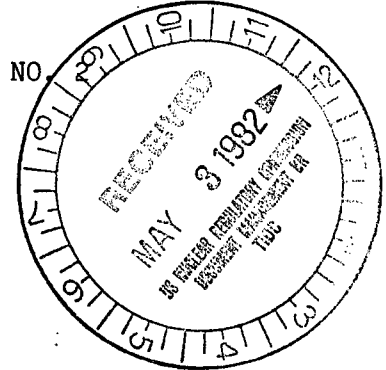


Carolina Power & Light Company

APR 30 1982

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

H. B. ROBINSON STEAM ELECTRIC PLANT UNIT NO.  
DOCKET NO. 50-261  
LICENSE NO. DPR-23  
REQUEST FOR LICENSE AMENDMENT  
CYCLE 9 OPERATION



Dear Mr. Varga:

SUMMARY

The purpose of this letter is to provide the Commission with Carolina Power & Light Company's (CP&L) plans for reactor operation of H. B. Robinson Unit 2 (HBR2) during Cycle 9 and request revisions to the HBR2 Technical Specifications. CP&L notified you of our intention to request these revisions in our letter to you dated April 20, 1982, with which we submitted copies of the "ECCS and Plant Transient Analyses for Cycle 9 Operation at Reduced Primary Temperatures."

In accordance with the Code of Federal Regulations, Title 10, Part 50.90 and Part 2.101, CP&L hereby requests revisions to the Technical Specifications (TS) to adjust the  $F_Q$  limits to those analyzed and to more clearly identify the power level referenced by various Limiting Conditions for Operation (LCO) during reduced temperature operation. Also included are corrections of several typographical errors.

DISCUSSION

Plant transient and ECCS analyses have been performed assuming a 20% tube plugging limit. The reload core design for Cycle 9 utilizes gadolinia as a burnable poison that will help maximize cycle length while achieving a desirable power distribution and control the moderator temperature coefficient. A second design feature is the use of depleted fuel assemblies on the core periphery, which reduces the neutron flux at the reactor vessel wall thereby reducing the rate of vessel embrittlement. Under the reduced temperature program for Cycle 9, hot full power and total peaking ( $F_Q$ ) are 1955 MWt and 2.32, respectively. Except for  $F_Q$ , the thermal limits utilized for Cycle 8 are applicable to Cycle 9.

TECHNICAL SPECIFICATION CHANGES

The peak  $F_Q$  (including uncertainties) assumed for Cycle 9 operation was 2.32 at 85% of rated power, i.e., 1955 MWt. As such TS 3.10.2.1 must be revised to account for  $F_Q$  under the reduced  $T_{avg}$  program.

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In the existing technical specifications there are a number of LCOs which refer to the terms rated power, full power, rated values, design values, etc. For operation under normal  $T_{avg}$  conditions these terms have generally been referenced to 2300 Mwt, the maximum power for which the unit is licensed to operate. For operation under reduced  $T_{avg}$  conditions these terms may refer to 2300 Mwt or 1955 Mwt depending upon the particular technical specification involved. To prevent confusion and to more clearly identify the referenced power level, CP&L has chosen to footnote each term which has a value of 1955 Mwt under the reduced  $T_{avg}$  program.

Attached you will find the appropriate revised pages of the HBR2 Technical Specifications. All changes are denoted by a vertical bar in the right hand margin.

The above TS changes are administrative in nature in that no unreviewed safety questions are involved. As such a check for One Thousand Two Hundred Dollars (\$1,200) is enclosed for a Class II amendment.

Should you have any questions regarding this information, please contact a member of our staff. Initial criticality following this refueling outage is currently scheduled for June 4, 1982. Your prompt attention to this matter and expeditious review would be greatly appreciated.

Yours very truly,




B. J. Furr  
Vice President  
Nuclear Operations

DCS/dk (n-C)

cc: Mr. James P. O'Reilly  
Mr. G. Requa

B. J. Furr, having been first duly sworn, did depose and say that the information contained herein is true and correct to his own personal knowledge or based upon information and belief.

  
\_\_\_\_\_  
Notary (Seal)

My commission expires: ~~My Commission Expires 6-2-86~~