

50-261

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TO:

Mr. Robert W. Reid

FROM:

Carolina Power & Light Company
Raleigh, North Carolina
E. E. Etley

DATE OF DOCUMENT

9/28/76

DATE RECEIVED

10/1/76

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DESCRIPTION

Ltr. re discussions on 9/20/76 and the Commission's order of 8/27/76..... concerning procedure to be followed in monitoring the interim Fq limit of 2.05 for Unit No. 2.

(1-P)

PLANT NAME:

H. B. Robinson #2

ENCLOSURE

ACKNOWLEDGED

DO NOT REMOVE

SAFETY

FOR ACTION/INFORMATION

ENVIRO 10/1/76

RJL

ASSIGNED AD:

BRANCH CHIEF:

Reid (5)

PROJECT MANAGER:

Zwetzig

LIC. ASST.:

Ingram

ASSIGNED AD:

BRANCH CHIEF:

PROJECT MANAGER:

LIC. ASST.:

INTERNAL DISTRIBUTION

REG FILE

NRC PDR

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EISENHUT

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GRIMES

SITE SAFETY &

ENVIRO ANALYSIS

DENTON & MULLER

ENVIRO TECH.

ERNST

BALLARD

SPANGLER

SITE TECH.

GAMMILL

STAPP

HULMAN

SITE ANALYSIS

VOLLMER

BUNCH

J. COLLINS

KREGER

CONTROL NUMBER

9961

LPDR: Hartsville, S.C.

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ACRS /6 CYS HOLDING/SENT : INGRAM

NAT LAB:

REG. VIE

LA PDR

CONSULTANTS

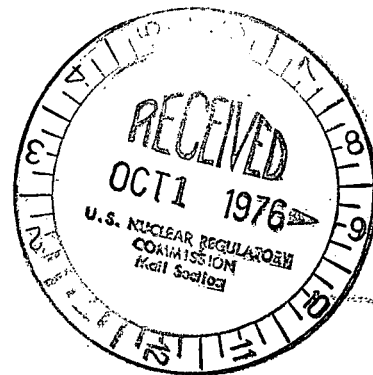
BROOKHAVEN NAT LAB

ULRIKSON (ORNL.)



Carolina Power & Light Company

September 28, 1976



Director of Nuclear Reactor Regulation
ATTN: Robert W. Reid, Chief
Operating Reactors Branch No. 4
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

H. B. ROBINSON STEAM ELECTRIC PLANT UNIT NO. 2
DOCKET NO. 50-261
LICENSE NO. DPR-23
METHOD FOR MONITORING HOT CHANNEL FACTOR, F_q

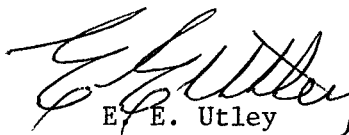
Dear Mr. Reid:

During discussions with your staff on September 20, 1976, it was requested that Carolina Power & Light Company identify the procedure to be followed in monitoring the interim F_q limit of 2.05 for H. B. Robinson Unit No. 2 as set forth in the Commission's Order of August 27, 1976. In response to this request, the following information is provided.

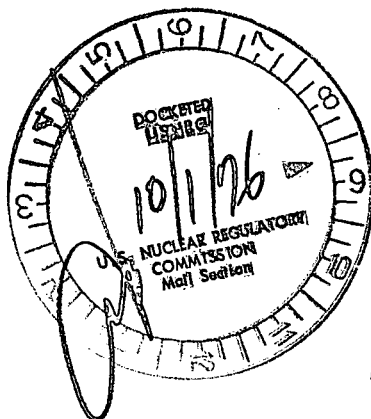
The monitoring method to be employed to ensure F_q remains below a full power limit of 2.05 will be the Axial Power Distribution Monitoring System (APDMS) which has been employed previously to determine hot channel factors at H. B. Robinson. The method for employing APDMS is presently contained in Sections 3.10.2.1 and 4.11 of the H. B. Robinson Unit No. 2 Technical Specifications, but is applicable only if the value of F_{xy} exceeds a limiting value. We have procedurally extended the requirements for APDMS initiation such that the system will be in operation above a power level of 88% of full power; this is equivalent to the ratio 2.05/2.32, where 2.32 is the appropriate value of F_q for Constant Axial Offset Control (CAOC) monitoring of peaking factors. All other values of peaking factor limits in Section 3.10.2.1 have been adjusted appropriately to reflect an F_q of 2.05. In addition, the ratio of 2.05/2.32 has been applied to the large break LOCA portions of the $K(z)$ curve (the line segments below the 10.8' elevation) of Technical Specification Figure 3.10-3.

Using the above procedure, we can adequately and safely maintain the value of F_q below 2.05 and continue to operate the plant at its full rated power level of 2200 MWt. We trust the above information is suitable for your use.

Yours very truly,


E. E. Utley
Vice President
Bulk Power Supply

MFP/dkm



REGULATORY DOCKET FILE COPY 9961