

50-261

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TO: NRC

FROM: Carolina Pwr & Light Co
Raleigh, NC
J A Jones

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8-25-76

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DESCRIPTION

Ltr re thér 8-25-76 submittal....furnishing
addinfo concerning peaking factor.....

ENCLOSURE

PLANT NAME: Robinson

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ACKNOWLEDGED

SAFETY

FOR ACTION/INFORMATION

ENVIRO 8-20-76 ehf

ASSIGNED AD:

BRANCH CHIEF:

PROJECT MANAGER:

LIC. ASST.:

Reid (5)
Zwet 215
Tngrom

ASSIGNED AD:

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ROSS

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ROSZTOCZY

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RUTBERG

OPERATING TECH.

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BAER

BUTLER

GRIMES

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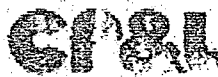
CONSULTANTS

BROOKHAVEN NAT LAB

ULRIKSON(ORNL)

CONTROL NUMBER

8805



Carolina Power & Light Company

August 25, 1976

DELIVER TO:
Mike FLETCHER
Phone 27403
Immediately

FILE: NG-3514(R)

SERIAL: NG-76-1155

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



H. B. ROBINSON STEAM ELECTRIC PLANT

DOCKET NO. 76-261

OPERATING LICENSE NO. DPR-23

ADDITIONAL INFORMATION ON TOTAL PEAKING FACTOR, F

Dear Mr. Reid:

Regulatory Docket File

On August 18, 1976, the Company submitted a letter informing the NRC Staff of the limit to be applied to the total peaking factor, F_q , at H. B. Robinson Unit 3. This submittal was made at the request of the Staff and was based on recent discoveries by Westinghouse Electric Corporation concerning non-conservatism in the ECCS analysis as explained in the August 18 letter. The F_q limit presented in that letter was calculated from information supplied to the Company by Westinghouse which had been verbally agreed to by the Staff.

On August 24, 1976, the Company was notified by the Staff that the Peak Clad Temperature (PCT) increase which Westinghouse presented to the individual utilities should be 50°F higher due to use of different versions of the ECCS model when making the comparisons of PCT. The Staff requested that a new F_q limit be submitted, reflecting the additional 50°F increase in PCT.

The total PCT increase presented in the August 18 letter was $+290^\circ\text{F}$ which included $+260^\circ\text{F}$ for the elevated head temperature and $+30^\circ\text{F}$ for plugged steam generator tubes. With the additional 50°F this results in a total PCT increase of 340°F . Using the correlation provided in the Staff's August 12, 1976 order results in an F_q reduction of 0.34. Therefore, the 2300 MWt operation limit on F_q would be 1.96. Since H. B. Robinson is licensed for operation at 2200 MWt, the credit obtained from the 100 MWt reduction yields a limiting F_q of 2.05. This value of F_q will accommodate the Exxon fuel as explained in the August 18 letter. This limit on F_q of 2.05 has been placed into effect.

Yours very truly,

J. A. Jones

Executive Vice President
Engineering, Construction & Operation

MFP/c11

cc: Mr. Norman C. Moseley