

DUKE POWER COMPANY

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VICE PRESIDENT
NUCLEAR PRODUCTION

TELEPHONE
(704) 373-4531

October 9, 1989

U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

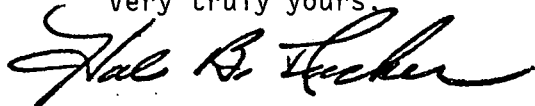
Subject: Oconee Nuclear Station
Docket Nos. 50-269, -270, -287
LOCA - Limited Maximum Allowable
Linear Heat Rate

Gentlemen:

By letter dated January 22, 1988 I submitted a proposed amendment to the Oconee Nuclear Station (ONS) Facility Operating License and revision to the ONS Technical Specification Bases. The proposed revision was provided to update the LOCA - Limited Maximum Allowable Linear Heat Rate (Figure 3.5.2-16) in accordance with the technical justification provided in B&W Owners Group Report BAW-2001P, Low Pre-Pressure Fuel Rod Program.

Please find attached a supplement to the January 22, 1988 amendment request. This supplement represents the results of analyses described in BAW-2001P with two burnup windows rather than three. The attached letter (Attachment 2) is provided to supplement Table 3 of BAW-2001P. The LOCA kw/ft limits provided in this supplement and the limits described in Table 3 of BAW-2001P will not violate 10CFR50.46 or 10CFR50, Appendix K requirements. As such, no changes to the previously submitted No Significant Hazards Consideration Evaluation are necessary.

Very truly yours,



Hal B. Tucker

PJN/55/td
Attachments

cc: Mr. S. D. Ebnetter
Regional Administrator, Region II
U. S. Nuclear Regulatory Commission
101 Marietta Street, NW, Suite 2900
Atlanta, GA 30323

Mr. L. A. Wiens
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, DC 20555

Mr. P. H. Skinner
NRC Resident Inspector
Oconee Nuclear Station

Mr. Heyward Shealy, Chief
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SC Dept. of Health &
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2600 Bull Street
Columbia, SC 29201

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Duke Power Company

Oconee Nuclear Station

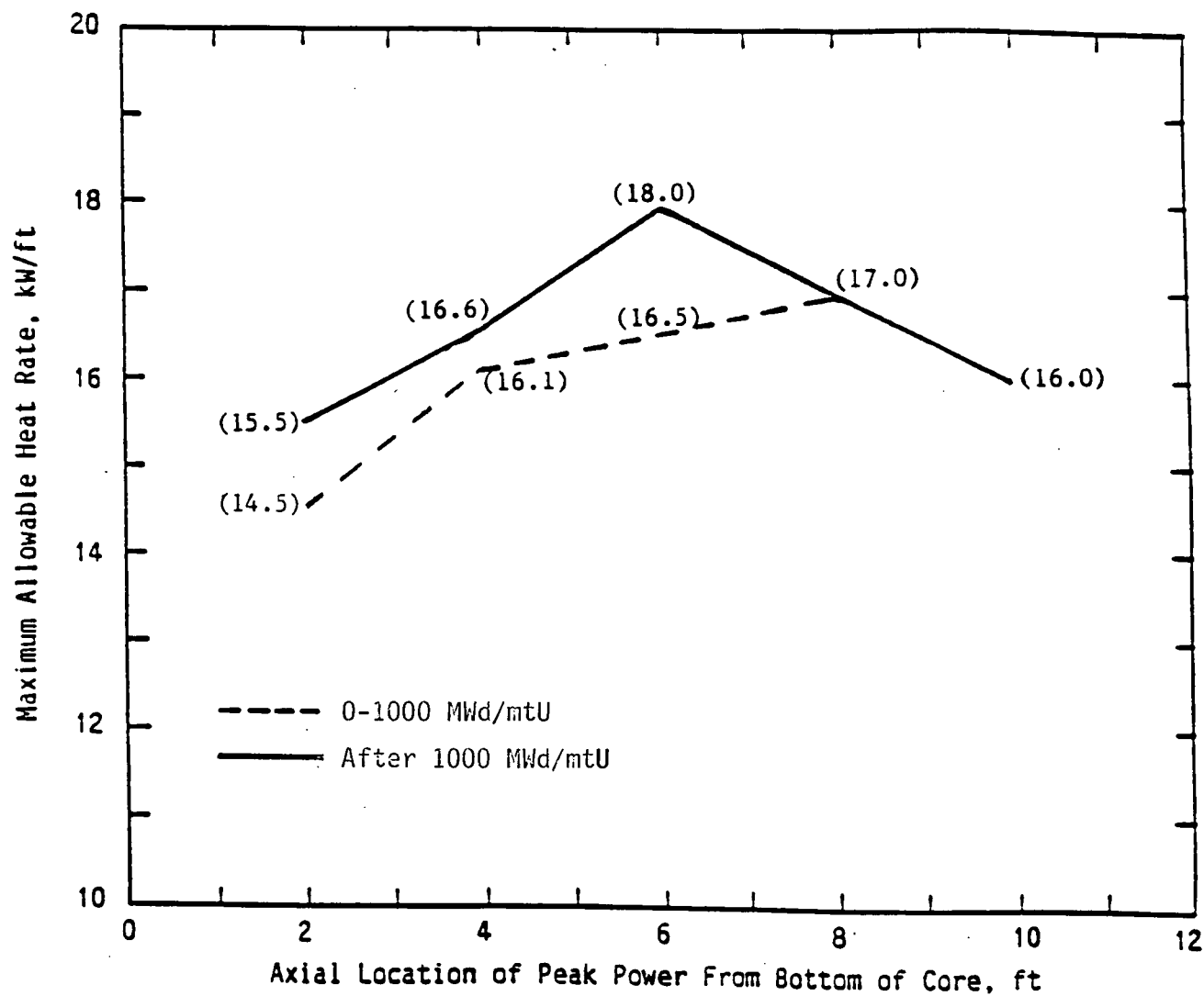
Attachment 1

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3.5-30

Insert Pages

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LOCA-Limited Maximum Allowable
Linear Heat

Oconee Nuclear Station
Figure 3.5.2-16

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Oconee Nuclear Station

Attachment 2

LOCA Limits for Low Pre-Pressure Fuel Rods



B&W Fuel Company

An American Company With
Worldwide Resources

3315 Old Forest Road
P.O. Box 10935
Lynchburg, VA 24506-0935
(804) 385-2000

June 2, 1988

Mr. T. F. Wyke, Chief Engineer
Mechanical & Nuclear Division
Duke Power Company
P. O. Box 33189
Charlotte, NC 28242

Attention: Mr. Glenn Horne

Subject: LOCA Limits for Low Pre-pressure Fuel Rods
(Master Services Task 701)

- References:
1. BAW-2001P, "Low Pre-pressure Fuel Rod Program Burnup Extension LOCA Analysis," June 1987.
 2. BAW-1915P, (77-1164183-00), "Bounding Analytical Assessment of NUREG-0630 Models on LOCA kw/ft Limits with the use of FLECSET," May 1986.

Dear Glenn: DUKE POWER CO.
Lynchburg

It has recently been brought to our attention that the references given above allow different but valid LOCA limits for the B&W 177 lowered loop plants which are using reduced pre-pressure fuel rods. The purpose of this letter is to confirm the validity of both sets of limits.

Table 3 of Reference 1 may have a supplement added to it to include the following table:

Core Elevation (ft)	<u>LOCA Limits</u>	-	<u>Linear Heat Rates (kw/ft)</u>
	BOL-1000 MWD/mtu		1000 MWD/mtu-EOL
2	14.5		15.5
4	16.1		16.6
6	16.5		18.0
8	17.0		17.0
10	16.0		16.0

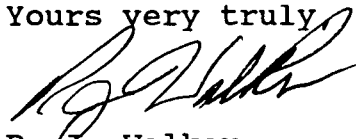
Both Table 3 of Reference 1 and this supplement are equally valid and will not violate 10 CFR 50.46 and Appendix K requirements of

Mr. T. F. Wyke
Page 2

June 2, 1988

2200 F cladding temperatures. This supplement table will be used for future Reloads, on B&W 177 lowered loop plants, in which every fresh fuel assembly is of the reduced pre-pressure design.

Yours very truly



R. J. Walker
Fuel Project Manager
Nuclear Fuel Services

RJW/beb

cc: K. S. Canady
R. M. Gribble
P. M. Abraham
N. A. Rutherford
F. W. Hallman
R. N. Edwards, Jr. - Charlotte Sales