

November 7, 1996

Mr. M. S. Tuckman
Senior Vice President
Nuclear Generation
Duke Power Company
P. O. Box 1006
Charlotte, NC 28201

SUBJECT: SAFETY EVALUATION ON THE USE OF THE BWU-Z CRITICAL HEAT FLUX
CORRELATION FOR MCGUIRE NUCLEAR STATION, UNITS 1 AND 2; AND CATAWBA
NUCLEAR STATION, UNITS 1 AND 2 (TAC NOS. M95267, M95268 AND M95333,
M95334)

Dear Mr. Tuckman:

By letters dated October 13 and December 4, 1995, as supplemented by letters dated April 26 and September 5, 1996, Duke Power Company requested approval for applying the BWU-Z critical heat flux (CHF) correlation for analyses of the McGuire and Catawba reactor cores with Mark-BW 17x17 type fuel. The BWU-Z CHF correlation for the Mark-BW 17x17 type fuel is one of the three applications stated in Babcock and Wilcox Fuel Company's (BWFC's) (now Framatome Cogema Fuels) Topical Report BAW-10199P, "The BWU CHF Correlations." This topical report was reviewed and approved by the NRC by letter dated April 5, 1996.

Based on its review, the staff finds the proposed application of the BWU-Z CHF correlation for the McGuire and Catawba Mark-BW 17x17 type fuel acceptable. Our safety evaluation, which provides the results of the review, is enclosed.

Sincerely,

(original signed by)

Herbert N. Berkow, Director
Project Directorate II-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket Nos. 50-369, 50-370
50-413, and 50-414

Enclosure: Safety Evaluation

cc w/encl: See next page

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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

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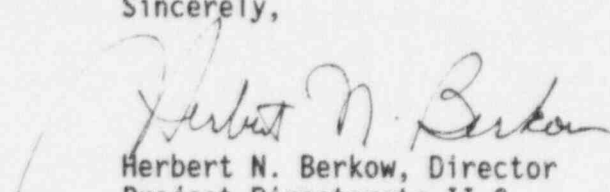
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Project Directorate II-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket Nos. 50-369, 50-170
50-413, and 50-414

Enclosure: Safety Evaluation

cc w/encl: See next page

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