



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

October 28, 1991

Docket Nos. 50-315
and 50-316

Mr. E. E. Fitzpatrick, Vice President
Indiana Michigan Power Company
c/o American Electric Power Service Corporation
1 Riverside Plaza
Columbus, Ohio 43216

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Dear Mr. Fitzpatrick

SUBJECT: PRESSURIZER SURGE LINE THERMAL STRATIFICATION, NRC BULLETIN 88-11,
DONALD C. COOK NUCLEAR PLANT, UNITS 1 AND 2 (TAC NOS. ~~m~~2125 AND ~~m~~2126)

The NRC staff and its consultant, Brookhaven National Laboratory, have completed their review of the Westinghouse Owners Group (WOG) report (WCAP-12639) on generic detailed analysis of pressurizer surge line stratification. The staff concluded that the methodology used to analyze and evaluate the stress and fatigue effects due to thermal stratification and thermal striping was acceptable. However, for the 43 plants included in the WOG generic analysis, only 15 plants demonstrated acceptable stress and fatigue usage in the surge line.

Although the results of the WOG generic analysis cannot be used to satisfy Actions 1.c and 1.d of Bulletin 88-11 for your facility, a copy of our review of WCAP-12639 that was sent to the WOG is being provided for your information. The Safety Evaluation provides some guidance for the 28 Westinghouse plants that could not be shown acceptable by the WOG generic analysis.

By letter dated March 19, 1991, you submitted a plant specific structural analysis (WCAP-12850) for the Donald C. Cook Nuclear Plant, Units 1 and 2 as required by the enclosure. The analysis provides the basis for a conclusion that your facilities conform to the requirements of ASME Code Section III, including both stress limits and fatigue usage, for 32 Effective Full Power Years of operation of each unit. The displacements and support loadings for the surge line were verified and found acceptable. No need for modifications to plant piping, procedures, or operational practices was indicated.

The submittal of the plant specific analysis satisfies Item 1.d of Bulletin 88-11. Therefore, Bulletin 88-11 is considered complete to your facilities. As stated in Item 3 of the Bulletin, your analyses as well as supporting records and documentation should be appropriately maintained for audit purposes.

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Mr. E. E. Fitzpatrick

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October 28, 1991

If you have any questions regarding this action, please contact W. Long at (301) 492-3026 or T. Colburn at (301) 492-1341.

Sincerely,

Original signed by
William O. Long, Sr. Project Manager
Project Directorate III-1
Division of Reactor Projects III/IV/V
Office of Nuclear Reactor Regulation

Enclosure:
As stated

cc: w/enclosure:
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Mr. E. E. Fitzpatrick
Indiana Michigan Power Company

Donald C. Cook Nuclear Plant

cc:

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