



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

February 21, 1992

Docket No. 50-302

Mr. Percy M. Beard, Jr.
Senior Vice President,
Nuclear Operations
Florida Power Corporation
ATTN: Manager, Nuclear Operations
Licensing
P.O. Box 219-NA-21
Crystal River, Florida 32629

Dear Mr. Beard:

SUBJECT: PRESSURIZER SURGE LINE THERMAL STRATIFICATION, BULLETIN 88-11,
CRYSTAL RIVER UNIT 3 (TAC NO. M72127)

The NRC staff and its consultant, Brookhaven National Laboratory, have completed their review of the Babcock & Wilcox Owners Group (BWOG) report (BAW-2127) on generic final analysis of surge line thermal stratification. The staff concluded that the methodology used to evaluate and analyze the stress and fatigue effects due to thermal stratification and thermal striping was generally acceptable. NRC staff concerns and questions on the report were resolved and found to be acceptable with the exception of one major issue. This issue involves the stress index used in calculating thermal expansion stress for surge line elbows. This issue may have significant impact on acceptability of stress levels and fatigue life of the surge line and needs to be resolved. The NRC staff has recommended several actions for resolving this issue in the enclosed Safety Evaluation. The NRC staff will review the proposed resolutions when they are received, which is now expected by May 1992.

Subsequent to our final acceptance of the BWOG report, you are requested to provide to the NRC, in writing, verification of the plant-specific applicability of the BWOG program and results. This includes a verification of the analysis assumptions, qualifications of supports and attached piping, and revision of operating procedures as indicated in BAW-2127. This request is in accordance with Action Item 1.b of Bulletin 88-11.

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Mr. Percy M. Beard, Jr.

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February 21, 1992

This requirement affects fewer than 10 respondents, and, therefore, is not subject to Office of Management and Budget review under P.L. 96-511.

Sincerely,

/s/

Harley Silver, Sr. Project Manager
Project Directorate II-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosure:
Safety Evaluation

cc w/enclosure:
See next page

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Crystal River Unit No.3
Generating Plant

cc:

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