

SEP 28 1973

Docket No. 50-305

Mr. E. W. James
Senior Vice President
Wisconsin Public Service
Corporation
P. O. Box 1200
Green Bay, Wisconsin 54305

Dear Mr. James:

Recently, it has come to the attention of the staff that there exists a potential for possible energy addition to the containment during the period after the core has been recovered with water following a postulated LOCA. This subject has been discussed with Westinghouse on a generic basis and it is my understanding that analyses currently are underway to examine the extent of the problem as it applies to Kewaunee as well as to other plants.

While the problem, reportedly, is not serious for Kewaunee, in order that we may complete our records, it is requested that as soon as possible you file in the FSAR a reply to the following request for additional information:

The containment pressure response analysis should be expanded to include the effects of possible energy addition during the period when the core has been recovered with water. Considering that a break in a cold leg at the pump suction has occurred, the core will be cooled by boiling and a two-phase mixture of steam and water will exist in the core. Provide the results of an analysis showing the height as a function of time for the two-phase mixture level above the core. If any entrained liquid is determined to exit the core and enter the steam generators, provide the ensuing energy release rate into the containment and the results of an analysis of the containment pressure response for this release.

Mr. E. W. James

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In view of the short period of time remaining before the filing of testimony in preparation for resumption of the Kewaunee hearing, and with the concurrence of your Mr. Giesler, I am forwarding copies of this letter directly to Mr. DeLong at Pioneer Service & Engineering and to Mr. Santoro at Westinghouse.

Sincerely,

Karl Kniel, Chief
Pressurized Water Reactors Branch No. 2
Directorate of Licensing

cc: Mr. C. Giesler
Superintendent of Nuclear Power
Wisconsin Public Service Corporation
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Mr. E. W. James

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