

JUN 10 1987

Docket No. 50-305

Mr. D. C. Hintz  
Vice President - Nuclear Power  
Wisconsin Public Service Corporation  
Post Office Box 19002  
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Dear Mr. Hintz:

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SUBJECT: INSTRUMENTATION FOR DETECTION OF INADEQUATE CORE COOLING FOR  
KEWAUNEE NUCLEAR POWER PLANT (TAC 45143)

The staff has reviewed 14 Wisconsin Public Service Corporation (WPSC) submittals dated from October 19, 1979 to March 29, 1985 regarding the Kewaunee design for instrumentation to detect inadequate core cooling (ICC). These reviews resulted in three safety evaluations and requests for additional information dated May 18, 1984, November 30, 1984 and May 22, 1985. Five additional submittals from WPSC dated July 29, 1985 to April 21, 1987 provided the information necessary to complete the ICCI review.

The WPSC submittals adequately describe the licensee's proposed design and answer the staff's questions. The Kewaunee installation of hardware is now complete.

The implementation of this program will be complete when WPSC certifies that all procedures utilizing ICCI are in place, operator training has been completed and Technical Specification changes for ICC instrumentation in accordance with the guidelines of Generic Letter 83-37 have been approved by the NRC.

The staff has concluded that the proposed design for instrumentation to satisfy the requirements of the TMI Action Plan, NUREG-0737, Item II.F.2 is satisfactory and review of this proposed design is complete. The staff's Safety Evaluation is enclosed.

Sincerely,

*Theodore R. Quay*

Theodore R. Quay, Project Manager  
Project Directorate III-3  
Division of Reactor Projects

Enclosure:  
Safety Evaluation

cc w/enclosure:  
See next page

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Surname: PKreutzer  
Date: 6/10/87

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Wisconsin Public Service Corporation

Kewaunee Nuclear Power Plant

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