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 EISENHUT,D.G. Division of Licensing

SUBJECT: Submits revised info re pressurizer safety & relief valves
 in use at facility, per NUREG-0737, Item II.D.1.

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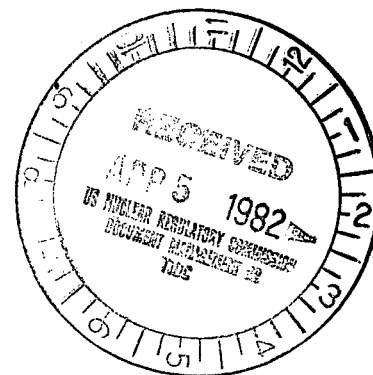
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WISCONSIN PUBLIC SERVICE CORPORATION



P.O. Box 1200, Green Bay, Wisconsin 54305

April 1, 1982



Mr. D. G. Eisenhut, Director
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Eisenhut:

Docket 50-305
Operating License DPR-43
Kewaunee Nuclear Power Plant
NUREG-0737 Item II.D.1
Relief and Safety Valve Evaluation

In accordance with NUREG-0737, Item II.D.1, and revised September 29, 1981, Wisconsin Public Service Corporation (WPS) submits the following information relative to the pressurizer safety and relief valves in use at the Kewaunee Nuclear Plant.

WPS has actively pursued resolution of this issue through direct participation in the Electric Power Research Institute's (EPRI) valve test program. This program was specifically set up to obtain test data to support pressurizer safety and relief valve operability. Test data and interim reports received to date from EPRI have been reviewed and form the basis for this submittal. Based on the review, we have concluded that valves tested represent the safety and relief valve designs and that the conditions tested envelop the range of expected operating and accident conditions for the Kewaunee Plant. Also, the referenced reports provide the evidence required by NUREG-0737 which will be used to perform the final Kewaunee specific evaluation.

Power Operated Relief Valve (PORV)

The Kewaunee Plant has two Masoneilan Series 20,000 relief valves. This valve was tested by EPRI in a test configuration similar to that of the actual pressurizer configuration at the plant. The fluid conditions for the PORV's, while not specifically addressed in the Kewaunee Final Safety Analysis Report, were identified by Westinghouse and are contained in the Fluid Conditions Justification Report. The fluid conditions for test were selected on the basis of enveloping those fluid conditions for all plants utilizing the same valve type.

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Mr. D. G. Eisenhower
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Tests conducted on the valve have confirmed that the valve opened and closed on demand and that the valve suffered no damage that would preclude future operation. The tests included steam, steam-to-water transition, water, and pre-load conditions. Specific information related to these tests is given in Revision 2 to the Interim Data Report and the Wyle Test Report (Phase III).

Safety Valve

The Kewaunee Plant has two Crosby 6M₁₆ loop-seal safety valves while the EPRI test program included the Crosby 6M6 valve in a loop-seal configuration. (The 6M₁₆ safety valve is essentially the 6M6 safety valve with a smaller orifice. The effects of the differences will be considered in the Kewaunee specific analysis.) The safety valves have been demonstrated to open and close, but certain areas of system performance are still undergoing review. WPS has retained a consultant to perform the plant specific analysis for the Kewaunee Plant. In addition to the plant specific analysis, generic analyses are being performed by Westinghouse as part of the Westinghouse Owners Group of which we are a member. Clarification of these concerns and their impact on plant performance is expected prior to the July 1, 1982, information submittal date.

Very truly yours,



E. R. Mathews
Senior Vice President
Power Supply & Engineering

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cc - Mr. Robert Nelson, US NRC