

## WISCONSIN PUBLIC SERVICE CORPORATION

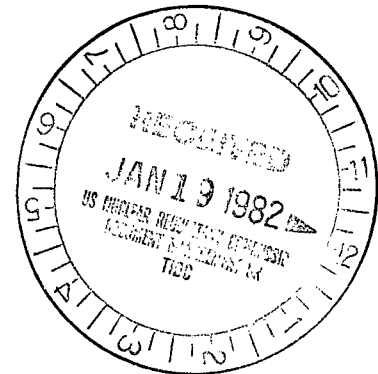


P.O. Box 1200, Green Bay, Wisconsin 54305

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Sept 10, 1981

Mr. James G. Keppler, Director  
Office of Inspection and Enforcement  
Region III  
U. S. Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, IL 60137



Dear Mr. Keppler:

Docket 50-305  
Operating License DPR-43  
Kewaunee Nuclear Power Plant  
Steam Generator Support Bolts

Reference: Letter from E. R. Mathews to J. G. Keppler dated May 29, 1981

Enclosed please find one copy of the Teledyne Engineering Services report TR-5160-1 entitled "Mechanical Testing of Steam Generator Support Bolts".

As noted in the above referenced letter, two Steam Generator Support Bolts were removed for destructive testing. These bolts were transmitted to Teledyne Engineering Services to perform charpy impact tests and tensile strength tests.

The results of the Teledyne testing are in excellent agreement with the original material certification and published values in all cases but one. The charpy impact energy is considerably less than the original certification for this material. However, it is higher than published values for this material, which were used in steam generator support leg design. Therefore, this test result is conservative. It is believed that the original certification for the charpy test on this material is questionable.

The bolts which were removed for testing during the 1981 refueling outage were replaced with 8.1 inch vascomax bolts. Since the results of this testing have shown no degradation of the bolt material has occurred, and since analyses have been done which demonstrated that the as-built bolting configuration

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(which has been improved) had sufficient load carrying capability to meet FSAR requirements, no further action is necessary in this regard.

Very truly yours,

*Carl W. Guilan*  
*for*

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

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Enclosure

cc - Mr. Robert Nelson, NRC Resident Inspector  
RR #1, Box 999, Kewaunee, WI 54216