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 HINTZ, D. C. Wisconsin Public Service Corp.  
 RECIP. NAME RECIPIENT AFFILIATION  
 LEAR, G. E. Office of Nuclear Reactor Regulation, Director (post 851125)

SUBJECT: Provides addl info re proposed Amend 75 to Tech Specs for  
 License DPR-43, changing OL expiration date to 131221.  
 Pressurized thermal shock screening criteria will not be  
 exceeded by expiration date.

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**WISCONSIN PUBLIC SERVICE CORPORATION**

600 North Adams • P.O. Box 19002 • Green Bay, WI 54307-9002

July 14, 1986

Director of Nuclear Reactor Regulation  
Attention: Mr. G. E. Lear, PWR Project Directorate-1  
Operating Reactors Branch No. 1  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Gentlemen:

Docket 50-305  
Operating License DPR-43  
Kewaunee Nuclear Power Plant  
Projected Values of RTpTS for Proposed  
Operating License Expiration Date

- References: 1) Letter from C. W. Giesler (WPSC) to H. R. Denton (NRC) dated  
May 23, 1986  
2) Letter from D. C. Hintz (WPSC) to G. E. Lear (NRC) dated  
January 23, 1986

In reference 1 Wisconsin Public Service Corporation (WPSC) provided Proposed Technical Specification Amendment #75 which proposed changing the expiration date of the Kewaunee Nuclear Power Plant (KNPP) operating license from the existing date of August 6, 2008 to December 21, 2013. The basis for this request was that the 40-year life of the plant and license should begin from the date of issuance of the operating license. The current expiration date is based on forty years from the date of the construction permit.

By letter dated January 23, 1986 (reference 2), WPSC provided the response required by the pressurized thermal shock (PTS) rule (10 CFR 50.61). Our response to the rule provided the projection of RTpTS for the expiration date of the KNPP operating license (August 6, 2008). As requested by our NRC Project Manager, we hereby provide the projected RTpTS values for the newly proposed expiration date of December 21, 2013.

Based on information provided by the 1985 Wisconsin Public Service Nuclear Fuel Advance Plan, the KNPP will have experienced approximately 33 Effective Full

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Power Years (EFPY) of operation on December 21, 2013. However, a value of 34 EFPY will be assumed as this is the original design life of the KNPP (40 years at a load factor of 0.85). Based on our analysis performed to support the PTS submittal (reference 2), the peak inner diameter vessel fluence on December 21, 2013 will be approximately  $4.6 \times 10^{19}$  n/cm<sup>2</sup>.

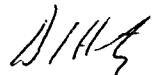
Using the same values for initial reference temperature, margin, and material chemical content as the January 23, 1986 submittal, the following table provides the projected RT<sub>PTS</sub> for the KNPP reactor vessel beltline materials on the recently proposed license expiration date of December 21, 2013:

RT<sub>PTS</sub> (December 21, 2013)

<u>Material</u>	<u>Equation (1)</u>	<u>Equation (2)</u>	<u>Applicable Value</u>	<u>Screening Criteria</u>
Intermediate Shell Forging	158°F	440°F	158°F	270°F
Lower Shell Forging	119°F	400°F	119°F	270°F
Beltline Circumferential Weld	257°F	358°F	257°F	300°F

As the table indicates, the PTS screening criteria will not be exceeded by December 21, 2013. The information provided above further supports our request for an extension to our license expiration date as presented in reference 1.

Sincerely,



D. C. Hintz  
Manager - Nuclear Power

DSN:jms

cc - Mr. Robert Nelson, US NRC