ACCESSIONENBR:8141470384 DOC.DATE: 81/14/13: NOTARIZED: YES DOCKET: # FACIL:50-305 Kewaunee Nuclear Power: Planty, Wisconsin Public Servic 05000305:

AUTHL AFFILIATION

MATHEWS, El. R. Wisconsin Public Service Corp.

RECIP. NAME: RECIPIENT AFFILIATION Division of Licensing.

SUBJECT: Responds to 810505 General cittle 81-21 respectured circulations cooldown. Controlled cooldown has been accomplished; at least twice: w/p reactor vessel voiding. Training programs include training in postulated station blackout events.

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WISCONSIN PUBLIC SERVICE CORPORATION



U.S. NUCLEAR REGULATORY

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

November 13, 1981

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

Gentlemen:

Docket No. 50-305
Operating License DPR-43
Kewaunee Nuclear Power Plant
Generic Letter 81-21: Natural Circulation Cooldown (May 5, 1981)

In response to the referenced letter:

1. A review of operating history has revealed that Kewaunee Nuclear Power Plant has successfully accomplished (on at least two occasions) controlled natural circulation cooldown from operating conditions without reactor vessel voiding.

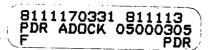
The most recent event occurred on January 17, 1980, when a transformer failure resulted in a partial station blackout. During the event, safe shutdown (hot) and natural circulation cooldown (to within Residual Heat Removal System operating limits) was achieved with no complications.

The "Natural Circulation Operation" Operating Procedure currently in place, in conjunction with the normal cooldown procedure, specifies normal cooldown parameters and precautions and limitations to be observed to prevent reactor vessel voiding.

For more details see our May 26, 1981, response to NRC Generic Letter 81-04.

2. The Kewaunee Nuclear Power Plant Technical Specifications state: specified minimum water supply in the condensate storage tanks (75,000 gallons) is sufficient for two hours of hot shutdown plus

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cooling of the plant to the cold shutdown condition and maintenance of this condition for an additional four hours. Unlimited replenishment of the condensate supply is available from Lake Michigan through the Service Water System."

3. The Kewaunee Plant licensed operator training and retraining programs include training in postulated station blackout events. This training incorporates the review of plant procedures pertinent to the station blackout events and controlled natural circulation operation. In addition, simulator training sessions include simulator exercises in a station blackout event utilizing the turbine driven auxiliary feedwater pump and natural circulation cooldown operations.

The normal cooldown procedure addresses forced circulation cooldown with references to the natural circulation cooldown procedure in the event that the reactor coolant pumps are, or become, unavailable. The natural circulation procedure specifies precautions and limitations to insure valid pressure/temperature indication, continued maintenance of natural circulation flow and adequate subcooling. In addition, the procedure describes reactor vessel voiding symptoms and action to be taken for the prevention or mitigation of vessel voiding.

Very truly yours,

E.R. Mathewal

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

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cc - Mr. Robert Nelson, NRC Resident Inspector

Subscribed and Sworn to Before Me This 13th Day of November 1981

Notary Public, State of Wisconsin

My/Commission Expires:

March 24, 1985