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 AUTH. NAME: EVERS, K.H. AUTHOR AFFILIATION: Wisconsin Public Service Corp.
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SUBJECT: Discusses DCRDR, identifying human engineering improvements that if implemented would optimize human performance & minimize human errors.

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August 9, 1991

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
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Gentlemen:

Docket 50-305
Operating License DPR-43
Kewaunee Nuclear Power Plant
Detailed Control Room Design Review (DCRDR)

- Reference: 1) Generic Letter 82-33, Supplement 1 to NUREG 0737
- 2) Letter from D.C.Hintz to M.B.Fairtile dated June 26,1986
- 3) Letter from M.B.Fairtile to D.C.Hintz dated October 29,1986

NUREG 0737 as clarified in reference 1, identified the requirement to perform a Detailed Control Room Design Review (DCRDR). The review conducted for the Kewaunee Nuclear Power Plant (KNPP) identified a number of "human engineering" improvements (also known as Human Engineering Observations (HEOs) and Human Engineering Discrepancies (HEDs)) that, if implemented, would optimize human performance and minimize human errors. WPSC implemented the DCRDR in accordance with procedure Engineering Control Procedure (ECP) 4.2 "Human Engineering Review Process for Control Room Modifications". This procedure describes the process for design improvement, control room improvement verification, and verification that no unacceptable HEDs are introduced into the control room.

WPSC performed an assessment of the HEDs to determine which were significant and which should be corrected. The WPSC assessment process was described in Section 5.1 of the Summary Report (reference 2). The Summary Report also included an outline of proposed control room changes, a proposed implementation schedule and a summary justification for HEDs with safety significance to be left uncorrected or partially corrected.

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August 9, 1991

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In reference 2, WPSC also committed to implementing the remaining modifications by the end of the 1991 refueling outage. WPSC stated that the improvements would be prioritized and implemented taking into consideration their importance to safety, other scheduled modifications, the logistics involved with the change, and the minimization of "negative transfer of learning" impact on the operating personnel. In reference 3, the US NRC issued a Safety Evaluation Report indicating the acceptability of the Kewaunee Plant DCRDR. This letter is being submitted as documentation that the appropriate DCRDR improvements, as determined by WPSC using ECP 4.2, have been installed and are operational. This letter is intended to close out TAC #56133.

Sincerely,



K. H. Evers
Manager - Nuclear Power

DJM/jms

cc - US NRC - Region III
Mr. Patrick Castleman, US NRC

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