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Following the scheduled annual refueling outage, a power escalation from 10% to 25% of full power was being made on May 7, 1984. This escalation had been started prior to the 2300 shift turnover and was being continued by the relieving operations crew.

Power was being increased at 1/2% per minute. Control of Main Feedwater (SJ) was in manual, using the feedwater bypass control valves (V), FW10A and FW10B. Using valve demand and the Steam Generator Narrow Range level indications, (LI) the operator attempted to match the increasing steam demand while maintaining an indicated narrow range level between 35% and 40%. The lo-lo level setpoint (17% narrow range level) was reached in steam generator 1B, while the operator adjusted the feedwater bypass control valves in an attempt to stabilize a level oscillation. Per design, the reactor tripped on the lo-lo level signal.

The reactor/turbine trip was followed by the immediate operator actions of procedure E-0-04, "Turbine and Reactor Trip", and the plant was placed in the hot shutdown operating mode. No equipment or system failures contributed to this event.

Although no additional corrective actions are necessary at this time, the sensitivity of steam generator level control in manual is being addressed as part of the human factors associated with the control room design review program.

NRC-84-98

Public

## WISCONSIN PUBLIC SERVICE CORPORATION

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

June 6, 1984

U. S. Nuclear Regulatory Commission Document Control Desk Washington, D.C. 20555

Gentlemen:

Docket 50-305 Operating License DPR-43 Kewaunee Nuclear Power Plant Reportable Occurrence 84-010-00

In accordance with the requirements of 10 CFR 50.73 "Licensee Event Report System", the attached Licensee Event Report for reportable occurrence 84-010-00 is being submitted.

Very truly yours,

Carlantise.

C. W. Giesler Vice President - Power Production

DJM/jks

Attach.

cc - INPO Records Center Suite 1500, 1100 Circle 75 Parkway Atlanta, GA 30339 Mr. Robert Nelson, NRC Resident Inspector RR #1, Box 999, Kewaunee, WI 54216 Mr. S. A. Varga, Chief US NRC, Washington, DC 20555 Mr. J. G. Keppler, Regional Administrator Region III, US NRC, 799 Roosevelt Road Glen Ellyn, 1L 60137

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