NAC For 9-831	LICENSEE EVENT REPORT (LER)						U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMS NO 3150-0104 EXPIRES 8/31/85								
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Investigation on July 5 found a loose connection (CON) on the line side of the AC output breaker (52) compression type connector. It is felt that vibration over a period of time caused this connection to loosen allowing the two wires at this point to momentarily separate. This momentary separation caused the Instrument Bus voltage to drop to approximately 100 volts; upon remake of the connection Instrument Bus voltage returned to normal 118 volts AC. This condition was duplicated by plant electricians, thus verifying the cause of a momentary low voltage on Instrument Bus IV. Preventative Maintenance Procedures on DC equipment have been revised to include the Instrument Bus Inverters; this should be adequate to prevent a recurrence.

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LICENSE	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION							
FACILITY NAME (1)	DOCKET NUMBER (2)	T	L	ER NUMBER 16	,	PAGE (3)		
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TEXT If more space is required, use additional NRC Form 385A's/ (17)

At 1832 on 7/3/84 a loss of power occurred on Instrument Bus IV (BU). This was noted in the Control Room by the loss of indication on all the yellow protective channel instruments. These instrument failures caused various alarms (ALM) and made up partial reactor trip logic indications. It also caused a level control problem on the Steam Generators (SG). The operators took manual control of the Steam Generators, but could not prevent a Reactor Trip from Lo S/G level coincident with Steam Flow/Feed Flow mismatch on S/G 'B', which occurred approximately 3 minutes after the power failure. Procedures for Reactor Trip were properly followed.

The battery room was checked for indications (fire, etc.) or cause for the power failure. By the time personnel arrived in the battery room, power had returned and there was no indication of any abnormal lineup or tripped circuit breakers (BKR). Later investigation of SER printout showed that power had returned at 1838. An electrician was called in to check the operation of the Inverter (INVT), but could find nothing abnormal.

The Assistant Superintendent of Operations came in and together with the STA and Shift Supervisor performed the "Post Trip Review". Their discussions included a call to the Maintenance Superintendent/acting Plant Manager and an agreement was reached to supply power to Instrument Bus IV from the alternate power supply (BRA-105), and to de-energize the Inverter. This was accomplished approximately two hours after the trip and the plant was ready for a return to power.

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NRC-84-125

WISCONSIN PUBLIC SERVICE CORPORATION



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

August 2, 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 84-014-00

In accordance with the requirements of 10 CFR 50.73 "Licensee Event Report System", the attached Licensee Event Report for reportable occurrence 84-014-00 is being submitted.

Very truly yours,

D. C. Hintz Manager - Nuclear Power

JGT/js

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, IL 60137

