

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Kewaunee Nuclear Power Plant										DOCKET NUMBER (2) 0 5 0 0 0 3 0 5					PAGE 13 1 OF 02	
TITLE (4) INADVERTENT REACTOR TRIP DURING INTERMEDIATE RANGE DETECTOR CALIBRATION																
EVENT DATE (5)			LER NUMBER (6)				REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)						
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES NA				DOCKET NUMBER(S) 0 5 0 0 0			
04	10	85	85	012	00	05	10	85					0 5 0 0 0			
OPERATING MODE (9) N		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)														
POWER LEVEL (10) 0100		20.402(b)				20.406(c)				<input checked="" type="checkbox"/> 80.73(a)(2)(iv)				73.71(b)		
		20.406(a)(1)(i)				80.36(c)(1)				<input type="checkbox"/> 80.73(a)(2)(v)				73.71(c)		
		20.406(a)(1)(ii)				80.36(c)(2)				<input type="checkbox"/> 80.73(a)(2)(vii)				OTHER (Specify in Abstract below and in Text, NRC Form 366A)		
		20.406(a)(1)(iii)				80.73(a)(2)(ii)				<input type="checkbox"/> 80.73(a)(2)(viii)(A)						
		20.406(a)(1)(iv)				80.73(a)(2)(iii)				<input type="checkbox"/> 80.73(a)(2)(viii)(B)						
		20.406(a)(1)(v)				80.73(a)(2)(iii)				<input type="checkbox"/> 80.73(a)(2)(ix)						
LICENSEE CONTACT FOR THIS LER (12)																
NAME Sherry L Bernhoft - Plant Technical Support Engineer										TELEPHONE NUMBER AREA CODE 414 388-2560						
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS						
X	IG	FU	W120	Y												
SUPPLEMENTAL REPORT EXPECTED (14)																
YES (If yes, complete EXPECTED SUBMISSION DATE)										<input checked="" type="checkbox"/> NO		EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR
												NA				
ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single space typewritten lines) (16)																

At 1522 on April 10, 1985, with the plant in the Hot Shutdown operating mode preparing to start up following a refueling outage, a reactor trip occurred during performance of the surveillance procedure to calibrate the intermediate range nuclear instrumentation channels. The trip was caused by the P-6 relay chattering, which was introduced through the grounding of the test equipment. The chattering bistable caused the control power fuses for intermediate range channel N35 detector to blow. This completed the one out of two actuation logic for an Intermediate Range Hi Flux Reactor Trip.

Immediate actions were taken to stop the in progress dilution and verify the reactor trip. Consideration is being given to purchasing a new portable pico-ammeter to prevent a recurrence of this event.

The reactor was in the shutdown condition with the control banks inserted prior to the event and the reactor protection system performed as designed, hence there was no impact on public health and safety.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1) Kewaunee Nuclear Power Plant	DOCKET NUMBER (2) 0 5 0 0 0 3 0 5 8 5	LER NUMBER (6)			PAGE (3) 0 2 OF 0 2		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 5	— 0 1 2	— 0 0			

TEXT (If more space is required, use additional NRC Form 365A's) (17)

At 1522 on April 10, 1985, with the plant in the Hot Shutdown Operating Mode preparing to startup following a refueling outage, a reactor trip occurred during the performance of the surveillance procedure to calibrate the intermediate range nuclear instrumentation (IG) channels. The operators stopped the in-progress dilution and performed the immediate actions prescribed in the Reactor Trip Response procedure.

The trip was caused by differences in the ground potential between the NI's and the test equipment. The permanently installed picoammeter which is part of the flux map system was being used to perform the calibration. The flux map system and the NI's are each on their own ground grids. This introduced a ground potential problem resulting in chattering of the bistables (RLY) for the P-6 setpoint, the permissive which allows blocking the source range detector channels. The bistable cycling caused the control power fuses (FU) for intermediate range channel N35 detector (DET) to blow. This completed the one out of two actuation logic for an Intermediate Range Hi Flux Reactor Trip.

Consideration is being given to purchasing a new portable picoammeter for the purpose of calibrating the NI's to prevent a recurrence of this event.

The Reactor was in the shutdown condition with the control banks inserted prior to the event. The reactor protection system performed its required function, hence there was no impact on public health and safety.

WISCONSIN PUBLIC SERVICE CORPORATION

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



May 10, 1985

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 85-012-00

In accordance with the requirements of 10 CFR 50.73, "Licensee Event Report System", the attached Licensee Event Report for reportable occurrence 85-012-00 is being submitted.

Very truly yours,

A handwritten signature in dark ink, appearing to read "DCH".

D. C. Hintz
Manager - Nuclear Power

GWH/js
Attach.

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