

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Kewaunee Nuclear Power Plant										DOCKET NUMBER (2) 0 5 0 0 0 3 0 5										PAGE (3) 1 OF 0 2																							
TITLE (4) Steam Generator Tubes Plugges in 1985 Incorrect Location of Steam Generator Tube Plug																																											
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						DOCKET NUMBER(S)										
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0 2			2 0			8 5			8 5			- 0 0 6			- 0 0 0 3			1 5 8 5									0 5 0 0 0																
OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5 (Check one or more of the following) (11)																																									
N		20 402(b)										20 406(e)										50 73(a)(2)(iv)										73 71(b)											
POWER LEVEL (10)		0 0 0										20 406(a)(1)(i)										50 36(e)(1)										50 73(a)(2)(iv)										73 71(e)	
												20 406(a)(1)(ii)										50 36(e)(2)										50 73(a)(2)(v)										X OTHER (Specify in Abstract below and in Text NRC Form 366A)	
												20 406(a)(1)(iii)										50 73(a)(2)(iii)										50 73(a)(2)(vi)(A)											
												20 406(a)(1)(iv)										50 73(a)(2)(iv)										50 73(a)(2)(vi)(B)											
												20 406(a)(1)(v)										50 73(a)(2)(v)										50 73(a)(2)(vii)											
												20 406(a)(1)(vi)										50 73(a)(2)(vi)										50 73(a)(2)(viii)											
Special Report																																											
LICENSEE CONTACT FOR THIS LER (12)																																											
NAME Chuck Smoker, Plant Systems/Reliability Supervisor																TELEPHONE NUMBER																											
																AREA CODE 4 1 4						3 8 8 - 2 5 6 0																					
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																																											
CAUSE		SYSTEM		COMPONENT		MANUFACTURER		REPORTABLE TO NRC		CAUSE		SYSTEM		COMPONENT		MANUFACTURER		REPORTABLE TO NRC																									
SUPPLEMENTAL REPORT EXPECTED (14)																EXPECTED SUBMISSION DATE (15)		MONTH		DAY		YEAR																					
YES (if yes, complete EXPECTED SUBMISSION DATE)																X NO																											

ABSTRACT (Limit to 1400 spaces - i.e. approximately fifteen single space typewritten lines) (16)

On February 20, 1985, while shutdown for refueling and during the Steam Generator tube eddy current examination, a tube in the 1A steam generator requiring plugging in 1984 was found plugged in the hot leg only. An adjacent tube, not requiring plugging, was found plugged in the cold leg only. The tube that required plugging had a 55% thru-wall indication in 1984 and a 91% thru-wall indication in 1985. The exact cause of this event remains unknown; however, it is suspected that the cold leg tube sheet was mismarked during the 1984 steam generator tube plugging effort.

To prevent recurrence of this event the tubesheet templates, rather than the tubesheets, are marked to identify the tubes to be plugged. These templates are independently verified prior to tube plugging. The installed plugs are verified against the tube plugging list and a video tape is made of the tube sheets for final verification.

Twenty-six tubes in the 1A S/G and 22 tubes in the 1B S/G were removed from service as a result of tube plugging in 1985.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

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

On February 20, 1985, while shutdown for refueling, the steam generator (HX) tube (TBG) eddy current examination was being performed. In the 1A steam generator, tube R23-C36, which showed a 55% thru-wall indication in 1984, was found plugged in the hot leg only. (Kewaunee Plant Technical Specification 4.2.b.4 requires plugging of tubes with > 50% thru-wall indications.) An adjacent tube, R24-C36, not requiring plugging, was found plugged in the cold leg only. Tube R23-C36 was eddy-current tested, showing a 91% thru-wall indication, and subsequently plugged. The exact cause of this event remains unknown; however, it is suspected that the cold leg tubesheet was incorrectly marked during the 1984 steam generator tube plugging effort.

To prevent recurrence of this type of event the template, rather than the tube sheet, is marked to identify the tubes to be plugged. These templates are independently verified prior to their installation in the channel heads. The plugs are verified against the tube plugging list as they are installed. Upon completion of plugging a video tape is made of the tube sheets for final verification.

Although operation continued through Cycle X with a 55% indication in a steam generator tube there were no safety consequences. While some primary to secondary leakage was evident at the end of Cycle X, it was well within Technical Specification limits. Furthermore, the Kewaunee Updated Final Safety Analysis Report discusses the consequences of a steam generator tube rupture and concludes they are within acceptable limits.

The 1985 steam generator tube eddy current examination included all the accessible tubes as it did in 1984 and 1983. Twenty-six tubes in the 1A steam generator and 22 tubes in the 1B steam generator were removed from service as a result of mechanical tube plugging in 1985.

In 1984 9 tubes were removed from service and in 1983 23 tubes were removed from service as a result of mechanical tube plugging in the 1A steam generator. Presently 1.7% of the tubes are plugged in the 1A steam generator.

In 1984 17 tubes were removed from service and in 1983 49 tubes were removed from service as a result of mechanical tube plugging in the 1B steam generator. Presently 2.6% of the tubes in the 1B steam generator are plugged.

WISCONSIN PUBLIC SERVICE CORPORATION

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



March 15, 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 85-006-00

In accordance with the requirements of 10 CFR 50.73 "Licensee Event Report System", the attached Licensee Event Report for reportable occurrence 85-006-00 is being submitted.

Very truly yours,

A handwritten signature in cursive script, appearing to read "D. C. Hintz for".

D. C. Hintz
Manager - Nuclear Power

GWH/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
Regi. II, US NRC, 799 Roosevelt Road
Glen Llyn, IL 60137

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