

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Kewaunee Nuclear Power Plant DOCKET NUMBER (2) 0 5 0 0 0 3 0 5 1 OF 0 3

TITLE (4)

Manual Reactor Trip Due To Rupture of Steam Vent Line

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)
08	08	85	85	017	000	09	06	85	NA	0 5 0 0 0

OPERATING MODE (9)	POWER LEVEL (10)	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)									
N	073	20.402(b)	20.406(c)	X	50.73(a)(2)(iv)	73.71(b)					
		20.406(a)(1)(i)	50.73(e)(1)		50.73(a)(2)(v)	73.71(c)					
		20.406(a)(1)(ii)	50.73(e)(2)		50.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 365A)					
		20.406(a)(1)(iii)	50.73(a)(2)(i)		50.73(a)(2)(vii)(A)						
		20.406(a)(1)(iv)	50.73(a)(2)(ii)		50.73(a)(2)(vii)(B)						
		20.406(a)(1)(v)	50.73(a)(2)(iii)		50.73(a)(2)(ix)						

LICENSEE CONTACT FOR THIS LER (12)

NAME Sherry L. Bernhoft, Plant Technical Support Engineer TELEPHONE NUMBER 414 388-2560

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)

YES (If yes, complete EXPECTED SUBMISSION DATE) X NO EXPECTED SUBMISSION DATE (15) N/A

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

On August 8, 1985 at 0032 a manual reactor trip was required in order to isolate a ruptured excess steam vent line from the 1A2 MSR to the 15A feedwater heater. Immediately after the trip recovery actions were followed per procedure and a post trip review was performed. All of the equipment necessary to ensure a complete reactor and turbine trip operated properly.

At 0825 on the same day, when attempting a reactor startup, the operator failed to block the source range hi flux signal and received a reactor trip. A post trip review was performed and all the equipment required to ensure a complete reactor trip functioned normally. A startup was reinitiated and the reactor was critical by 0908. Maintenance completed replacing the ruptured vent line and at 1513 the plant was synchronized to the distribution grid.

Cause of the ruptured line was attributed to erosion of the carbon steel piping. An inplace program to examine steamline piping for tube wall thinning and replacement will be continued.

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Kewaunee Nuclear Power Plant	0500030585	85	017	00	02	OF	03

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

On August 8, 1985 at 0032 a manual reactor trip from 73% power was required in order to isolate the ruptured excess steam vent line from the 1A2 moisture separator reheater [MSR] (SB) to the 15A high pressure feedwater heater (SN). The vent line ruptured at approximately 0025 during the performance of the monthly turbine stop and governor valve operability test. A power reduction was started at 0026, but due to the amount of steam leakage and personnel safety hazard, the plant was manually tripped. See the attached sketch for exact location of the vent line rupture.

Immediately after the trip the recovery actions of operating procedure "Reactor Trip or Safety Injection" were followed and a post trip review as performed. All of the equipment necessary to ensure a complete reactor and turbine trip operated properly.

At 0058 Operations was able to isolate the ruptured section and maintenance personnel were called in to begin repair work. The ruptured line as well as three other vent lines that serve as at power excess steam vents from the MRSS to the feedwater heaters were replaced. The cause of the ruptured steam line is attributed to erosion of the carbon steel piping.

At 0825 a reactor startup was commenced in order to add enough heat to put blowdown in service for secondary side chemistry control. During the startup the operator failed to block the source range hi flux trip signal and received a reactor trip. A post trip review was performed and all of the equipment required to ensure a complete reactor trip functioned normally.

A startup was reinitiated at 0840 and the reactor critical at 0908. Maintenance completed their work and at 1513 the plant was synchronized to the distribution grid.

For both trips all of the system responses performed as expected; hence, there was no reactor safety concern. The ruptured steam line presented a personnel safety hazard and a plant reliability concern.

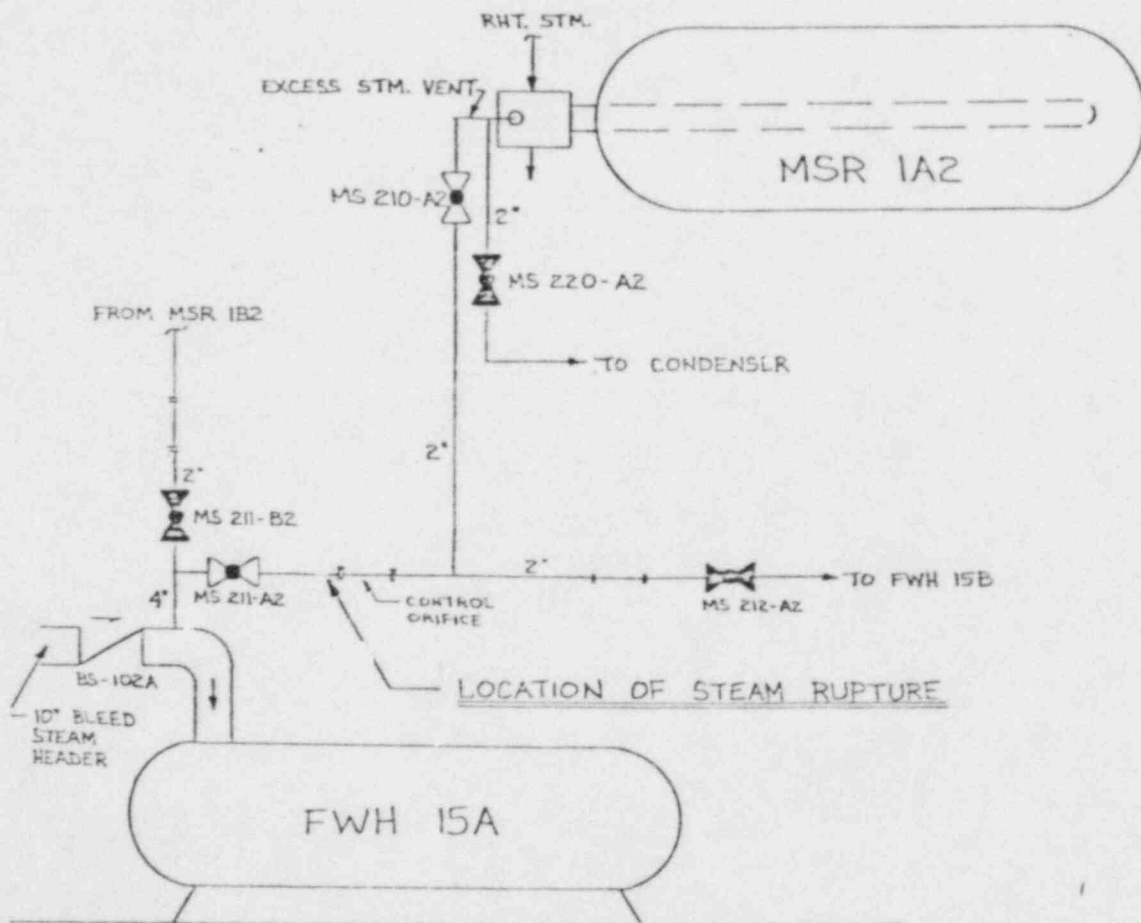
In December of 1982 a steam leak on a bleed steam line resulted in a manual reactor trip. Following this event in 1982 an extensive program was undertaken during the refueling outages to ultrasonically test secondary plant steam piping for tube wall thinning and replace degraded sections. Plans are to continue with this program.

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):  0500030585	LER NUMBER (6):			PAGE (3):		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		01	17	00	03	OF	03

TEXT (IF MORE SPACE IS REQUIRED, USE ADDITIONAL NRC Form 365A g/117)



## WISCONSIN PUBLIC SERVICE CORPORATION

P.O. Box 19002, Green Bay, WI 54307-9002



September 6, 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 85-017-00

In accordance with the requirements of 10 CFR 50.73, "Licensee Event Report System", the attached Licensee Event Report for reportable occurrence 85-017-00 is being submitted.

Very truly yours,

A handwritten signature in dark ink, appearing to read "D. C. Hintz".

D. C. Hintz  
Manager - Nuclear Power

GWH/js

Attach.

cc - INPO Records Center

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