

### LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) <b>Kewaunee Nuclear Power Plant</b>	DOCKET NUMBER (2) <b>05000305</b>	PAGE (3) <b>1 OF 2</b>
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TITLE (4)  
**Unplanned Start of "B" Train Auxiliary Building Special Ventilation System**

EVENT DATE (5)				LER NUMBER (8)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (6)	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES	DOCKET NUMBER(S)	
d	7	02	84	84	-013	-00	08	01	84	NA	050000
											050000

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5 (Check one or more of the following) (11)

OPERATING MODE (9) <b>N</b>	20.402(b)	20.406(c)	<input checked="" type="checkbox"/>	80.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10) <b>100</b>	20.405(a)(1)(i)	80.38(e)(1)	<input type="checkbox"/>	80.73(a)(2)(v)	73.71(c)
	20.406(a)(1)(ii)	80.38(e)(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)(iii)	<input type="checkbox"/>	80.73(a)(2)(viii)(A)	
	20.406(a)(1)(iv)	80.73(a)(2)(ii)	<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 <b>Sherry Bernhoft - Plant Technical Support Engineer</b>	TELEPHONE NUMBER
	AREA CODE: <b>414</b> NUMBER: <b>388-2560</b>

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
X	VJ	PSV	J075	YES					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE)  NO

EXPECTED SUBMISSION DATE (15) **NA**

MONTH	DAY	YEAR

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

On July 2, 1984, with the plant at full power operation, the auxiliary operator discovered that Train "B" of the Auxiliary Building Special Ventilation System (ABSV) was running for no apparent reason. When the control room operator attempted to secure the system he discovered a blown fuse for the solenoid valve on the Zone SV Exhaust Filter 1B Inlet Damper. Investigation revealed that the coil on the solenoid valve had burnt out failing it in the closed position which automatically opened the damper and started the 1B Zone SV Exhaust Fan.

Due to similar failures of this model of Johnson Solenoid valves, a design change had been in place to replace these valves as they fail with ASCOs. Once completed, this design change should prevent a recurrence of this event.

Since the system failed in the safe position there was no effect on the public health and safety.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		8 4	— 0 1 3	— 0 0	0 2	OF 0 2

TEXT (If more space is required, use additional NRC Form 388A's) (17)

At 0105 on July 2, 1984, with the plant at 100% full power operation, the auxiliary operator discovered that Train "B" of the Auxiliary Building Special Ventilation System (VJ) was running. The Control Room operators could find no apparent reason for the system to be running and unsuccessfully attempted to secure it. Following this attempt, a blown fuse (FU) was discovered in the relay rack (RK) for the Solenoid valve (PSV) which controls the Zone SV Exhaust Filter LB Inlet Damper (DMP). Based on the past history of this system the operators suspected that the coil (CL) was burned out on the normally energized solenoid valve.

Due to the hour of the day when the discovery was made, the Shift Supervisor decided to leave the system running which is its safe mode of operation. Maintenance removed the system from service at 0815 on 7/3/84 and confirmed the operators suspicion of a burnt out coil. The burnt out coil resulted in the solenoid valve failing closed and opening the damper. The damper opening actuated a signal to open the Zone SV Exhaust Fan LB Discharge Damper which in turn actuated a signal to start the Zone SV Exhaust Fan LB (FAN). The valve was replaced and the system placed back in service on 7/10/84.

Due to a history of similar failures of this model of Johnson Controls V-24 solenoid valves, a design change was initiated approximately three years ago to replace all of these valves on an as fail basis with ASCO NP8320A176E solenoid valves.

During a discussion of this incident the Plant Operations Review Committee recommended that a review be done to identify the number of remaining Johnson V-24 solenoid valves and in particular those whose failure will result in the unplanned actuation of safeguards systems. This review identified fifty-nine remaining Johnson V-24 valves, two of which fall into the category of initiating safeguards equipment.

These two valves will be replaced by 1/1/85 in order to prevent any further unnecessary challenges to safeguards equipment.

See also LER 82-03, LER 32-28 and 81-34.

## WISCONSIN PUBLIC SERVICE CORPORATION



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

August 1, 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 84-013-00

In accordance with the requirements of 10 CFR 50.73 "Licensee Event Report System", the attached Licensee Event Report for reportable occurrence 84-013-00 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

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  
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US NRC, Washington, DC 20555  
Mr. J. G. Keppler, Regional Administrator  
Region III, US NRC, 799 Roosevelt Road  
Glen Ellyn, IL 60137

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