

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 11403

FILE: _____

FROM: Wisconsin Public Service Corp. Green Bay, Wis. 54305 E.W. James		DATE OF DOC 11-4-74	DATE REC'D 11-7-74	LTR X	TWX	RPT	OTHER
TO: Mr. E. Case		ORIG 1 signed	CC	OTHER	SENT AEC PDR <u>XX</u>		SENT LOCAL PDR <u>XX</u>
CLASS	UNCLASS XXX	PROP INFO	INPUT	NO CYS REC'D 1	DOCKET NO: 50-305		

DESCRIPTION: Ltr submitted as an Abnormal Occurrence on 10-25-74 involving failure of 1A Auxiliary Feedwater Pump to start automatically... (50-305/74-19)

ENCLOSURES:

ACKNOWLEDGED

Do Not Remove

PLANT NAME: Kewaunee

FOR ACTION/INFORMATION

DHL 11-8-74

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KNIEL (L) W/ Copies	✓ PURPLE (L) W/4 Copies	YOUNGBLOOD (E) W/ Copies	W/ Copies

INTERNAL DISTRIBUTION

REG FILE	TECH REVIEW	DENTON	LIC ASST	A/T IND
✓ AEC PDR	✓ SCHROEDER	GRIMES	DIGGS (L)	BRAITMAN
✓ OGC, ROOM P-506A	✓ MACCARY	GAMMILL	GEARIN (L)	SALTZMAN
✓ MUNTZING/STAFF	✓ KNIGHT	KASTNER	GOULBOURNE (L)	B. HURT
✓ CASE	✓ PAWLICKI	BALLARD	KREUTZER (E)	PLANS
GIAMBUSO	✓ SHAO	SPANGLER	LEE (L)	MCDONALD
BOYD	✓ TELLO	ENVIRO	MAIGRET (L)	CHAPMAN
✓ MOORE (L) (BWR)	✓ HOUSTON	MULLER	REED (E)	DUBE w/input
✓ DEYOUNG (L) (PWR)	✓ NOVAK	DICKER	SERVICE (L)	E. COUPE
✓ SKOVHOLT (L)	✓ BOSS	KNIGHTON	✓ SHEPPARD (L)	
✓ GOLLER (L)	✓ PPOLITO	YOUNGBLOOD	SLATER (E)	✓ THOMPSON (2)
P. COLLINS	✓ TEDESCO	REGAN	SMITH (L)	✓ KLECKER
DENISE	✓ LONG	PROJECT LDR	TEETS (L)	✓ EISENHUT
REG OPR	✓ AINAS		WILLIAMS (E)	
✓ FILE & REGION (3)	✓ BENAROYA	HARLESS	WILSON (L)	
✓ MORRIS	✓ VOLIMER			
✓ STEELE				

EXTERNAL DISTRIBUTION

✓ LOCAL PDR <u>Kewaunee, Wis.</u>	✓ - NATIONAL LABS _____	1 - PDR-SAN/LA/NY
✓ - TIC (ABERNATHY) (1)(2)(10)	1 - ASLBP(E/W Bldg, Rm 529)	1 - BROOKHAVEN NAT LAB
✓ - NSIC (BUCHANAN)	1 - W. PENNINGTON, Rm E-201 GT	1 - G. ULRIKSON, ORNL
1 - ASLB	1 - B&M SWINEBROAD, Rm E-201 GT	1 - AGMED (RUTH GUSSMAN) Rm B-127 GT
1 - Newton Anderson	1 - CONSULTANTS	1 - R. D. MUELLER, Rm E-201 GT
50 - ACRS HOLDINGS SENT TO LIC. ASST. SHEPPARD 11-8-74	NEWMARK/BLUME/AGBABIAN	

LB

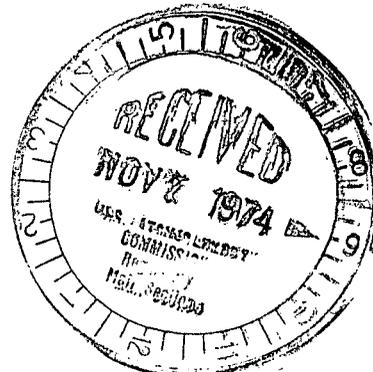
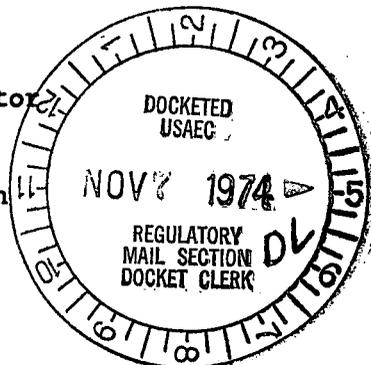
WISCONSIN PUBLIC SERVICE CORPORATION



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

November 4, 1974

Mr. Edson Case, Acting Director
 Directorate of Licensing
 Office of Regulation
 U.S. Atomic Energy Commission
 Washington, D.C. 20545



Dear Mr. Case:

Subject: Docket 50-305
 Operating License DPR-43
 Abnormal Occurrence Report

In accordance with the requirements of Technical Specifications, Paragraph 6.6.2.a and 1.0a.1(d), we submit the following:

Report Number:	50-305/74-19
Report Date:	November 4, 1974
Occurrence Date:	October 25, 1974
Facility:	Kewaunee Nuclear Power Plant Kewaunee, Wisconsin
Identification of Occurrence:	Failure of 1A Auxiliary Feedwater Pump to start automatically.
Conditions Prior to Occurrence:	Reactor Critical Reactor Coolant System Temperature - 547°F Reactor Coolant System Pressure - 2220 psig Electric Generator Off Line
Description of Occurrence:	The electric generator had been taken off the line in preparation for weekend maintenance. The Reactor was maintained critical. A hi-hi steam generator water level was indicated on 1B Steam Generator. 1B Main Feedwater Pump was out of service due to maintenance and its breaker tagged open. With the occurrence of the hi-hi steam generator water level, main feedwater pump 1A automatically tripped as required. The open main feed pump breakers signal initiated the start

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of both auxiliary feedwater pumps. Pump 1B started but auxiliary feedwater pump 1A did not start. The operator immediately started Pump 1A manually and flow was established from both auxiliary feed pumps.

Designation of
Apparent Cause
of Occurrence:

Relay in auto-start circuit failure to operate properly.

Analysis of
Occurrence:

Upon a hi-hi water level in the steam generator, the main feedwater pumps are tripped. When both feedwater pump circuit breakers are open, both auxiliary feedwater pumps start. Since main feedwater pump 1B was out due to maintenance and its breaker open, the tripping of 1A main feed pump initiated by the hi-hi water level should have automatically started both motor driven auxiliary feed pumps. Auxiliary feed pump 1B started as required, but auxiliary feed pump 1A failed to start. The operator placed the control switch in "START" and manually started pump 1A.

Upon investigation, a relay contact in the Auto-Start circuit failed to close due to a mechanical bind on the relay armature. This prevented the relay from dropping out to allow closure of the contact to allow starting of the 1A lube oil pump for 1A auxiliary feed pump.

Since auxiliary feedwater flow was established automatically through auxiliary feed pump 1B and through auxiliary feed pump 1A when the operator manually initiated its start, there was sufficient feed water flow to the steam generator and no risk to the health and safety of the public existed.

Corrective Action: The faulty relay was replaced and the circuit checked out for operability. Other relays of similar design in the relay cabinet were examined to verify that no mechanical binding existed. Further investigative effort is under way to examine relays of this type in other safeguard circuits.

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Failure Data: The relay manufacturer is A. O. Smith, Clark Control
Division, Cleveland, Ohio.
Type: PM Relay
Cat. No.: 5U6
Bulletin: 7305
Rating: 10A, 600 Vac Max.

This is the first occurrence of a mechanical binding
of this type relay in the Kewaunee Plant.

Sincerely,



E. W. James
Senior Vice President
Power Generation & Engineering

EWJ:jm

cc: Mr. J. G. Keppler, Region III
Mr. Dwane Boyd, Resident Inspector