

**AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)**

CONTROL NO: 8438

FILE:

FROM: Wisconsin Public Service Corp. Green Bay, Wis. 54305 Mr. E.W. James			DATE OF DOC 8-9-74	DATE REC'D 8-15-74	LTR X	TWX	RPT	OTHER
TO: J.F. O'Leary			ORIG 1 signed	CC	OTHER	SENT AEC PDR XXX SENT LOCAL PDR XXX		
CLASS	UNCLASS XXX	PROP INFO	INPUT	NO CYS REC'D 1		DOCKET NO: 50-305		

DESCRIPTION:
Ltr reporting an abnormal Occurrence at the
Kewaunee Nuclear Facility...concerning...
One fan coil unit out of service for a period
longer than allowed by tech specs....

A0-74-11

PLANT NAME: Kewaunee

ENCLOSURES:

ACKNOWLEDGED

DO NOT REMOVE

FOR ACTION/INFORMATION

8-15-74

JB

BUTLER (L)	SCHWENCER (L)	ZIEMANN (L)	REGAN (E)
W/ CYS	W/ CYS	W/ CYS	W/ CYS
CLARK (L)	STOLZ (L)	DICKER (E)	LEAR
W/ CYS	W/ CYS	W/ CYS	W/ CYS
DARR (L)	VASCILLO (L)	KNIGHTON (E)	
W/ CYS	W/ CYS	W/ CYS	W/ CYS
✓ KNIEL (L)	PURPLE (L)	YOUNGBLOOD (E)	
W/ CYS	W/ CYS	W/ CYS	W/ CYS

INTERNAL DISTRIBUTION

✓ REG FILE	TECH REVIEW	DENTON	LIC ASST	A/T IND
✓ AEC PDR	✓ HENDRIE	GRIMES	DIGGS (L)	BRAITMAN
✓ OGC	✓ SCHROEDER	GAMMILL	GEARIN (L)	SALTZMAN
✓ MUNTZING/STAFF	✓ MACCARY	KASTNER	GOULBOURNE (L)	B. HURT
✓ CASE	✓ KNIGHT	BALLARD	KREUTZER (E)	
GIAMBUSSO	✓ PAWLICKI	SPANGLER	LEE (L)	PLANS
BOYD	✓ SHAO		MAIGRET (L)	MCDONALD
MOORE (L)(LWR-2)	✓ STELLO	✓ ENVIRO	REED (E)	CHAPMAN
DEYOUNG (L)(LWR-1)	✓ HOUSTON	MULLER	✓ SERVICE (L)	DUBE w/input
SKOVHOLT (L)	✓ NOVAK	DICKER	SHEPPARD (L)	E. COUPE
✓ COLLER (L)	✓ ROSS	KNIGHTON	SLATER (E)	
P. COLLINS	✓ IPPOLITO	YOUNGBLOOD	SMITH (L)	✓ D. THOMPSON (2)
DENISE	✓ TEDESCO	REGAN	TEETS (L)	✓ KLECKER
✓ REG OPR	✓ LONG	PROJECT MGR	WILLIAMS (E)	✓ EISENHUT
FILE & REGION (3)	✓ LAINAS		WILSON (L)	
✓ MORRIS	✓ BENAROYA	HARLESS		
✓ STEELE	✓ VOLLMER			

EXTERNAL DISTRIBUTION

✓ 1 - LOCAL PDR & Kewaunee, Wis.	(1)(2)(10)-NATIONAL LABS	1-PDR-SAN/LA/NY
✓ 1 - TIC (ABERNATHY)	1-ASLBP(E/W Bldg, Rm 529)	1-BROOKHAVEN NAT LAB
✓ 1 - 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 GUSMAN)
✓ 1 - P. R. DAVIS	1-CONSULTANTS	Rm B-127 GT
✓ 5 - ACRS SENT TO LIC ASST Service	NEWMARK/BLUME/AGBABIAN	1-RD..MUELLER, Rm F-309
8-15-74		GT

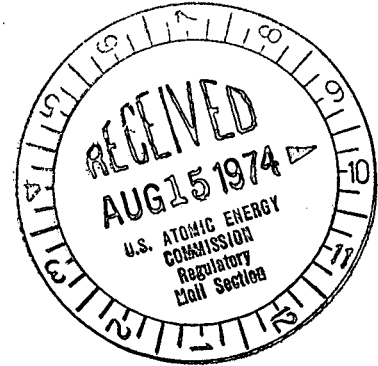
WISCONSIN PUBLIC SERVICE CORPORATION



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

August 9, 1974

Mr. J. F. O'Leary, Director
Directorate of Licensing
Office of Regulation
U. S. Atomic Energy Commission
Washington, D. C. 20545

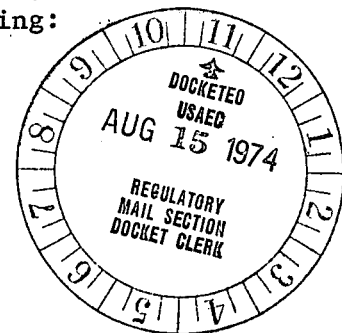


Dear Mr. O'Leary:

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

In accordance with the requirements of Technical Specifications, paragraph 6.6.2.a, 1.0.a.1.(b) and 3.3.b.2.A, we submit the following:

Report Number: 50-305/74-11
Report Date: August 9, 1974
Occurrence Date: July 22, 1974 1540 hours
Facility: Kewaunee Nuclear Power Plant
Kewaunee, Wisconsin



Identification of Occurrence: One fan coil unit out of service for a period longer than allowed by Technical Specifications.

Conditions Prior to Occurrence: Reactor at Power - 93%
Normal Operating Temperature - 560°F
Normal Operating Pressure - 2226 psig
Normal Charging and Letdown

Description of Occurrence: The control room operator attempted to open a service water return valve on one fan coil unit. The valve would not open due to thermal overloads having opened the circuit preventing the valve from opening electrically. It was discovered that the installed heaters were undersized, causing the thermal overloads. With the valve closed, service water cooling to the fan coil unit was not possible thereby rendering the fan coil unit inoperable from a cooling standpoint.

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The lack of proper followup following the issuance of the emergency work request was the cause of the abnormal occurrence.

Description of
Apparent Cause
of Occurrence:

The cause of the valve not opening was due to undersized heaters and thermal overloading. The cause of the violation of the Technical Specification was due to a lack of proper followup and recognizing that the service water return valve being out of service affected an engineered safety feature component.

Analysis of
Occurrence:

During normal operations, only three of four fan coil units are required for heat removal. In the event of a Design Basis Accident, any one of the following combinations will provide sufficient cooling to reduce containment pressure: four (4) fan coil units; two containment spray pumps; or two fan coil units plus one containment spray pump. Therefore, assuming a loss of one additional fan coil unit and one spray pump, we would have had sufficient cooling in the event of a DBA. The containment spray pumps were last tested on July 11 and both were found operable. Since it would require at least two additional separate failures in addition to the fan coil unit being out of service to be below the minimum cooling requirements during an accident condition, we believe that no hazard to the public health and safety existed. The three separate failures would have to be one of the following:

- a. Three remaining fan coil units
- b. One fan coil unit and one spray pump
- c. One containment spray pump

Corrective
Action:

The heaters in the valve were replaced with larger capacity heaters to prevent the thermal overloading due to undersizing. The replacement heaters are of the same capacity as called for in the original design for this valve. The heaters were checked out and the valve is operable. To prevent a reoccurrence of a lapse in procedural controls, the Operations Supervisor has issued a memo to all Shift Supervisors to denote on the Engineered Safeguards out-of-service panel when a Tech Spec limiting item is out of service. They are to initiate the light on the panel as well as indicate on the window with a grease pencil the time and date when a specified outage time is to expire. The operators have been instructed to review the board when making their initial check of the plant status during each shift to aid in flagging these items.

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The reviewers of incident reports and maintenance work requests have been instructed to denote when the item, if Tech Spec limited, must be returned to service so as not to violate the limiting conditions of operations in the Technical Specifications.

We believe these additional procedural steps will reduce the number of Technical Specification violations.

Failure Data: Heaters were Westinghouse supplied Style 3C1.18A and were replaced with a style 3C1.48A.

Very truly yours,



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

EWJ:sna

cc - Mr. James G. Keppler - US AEC, Region III
Mr. Dwane Boyd - US AEC, Resident Inspector