

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL  
(TEMPORARY FORM)

CONTROL NO: 13150

FILE: INCIDENT REPORT

FROM: Wisconsin Public Svc. Corp Green Bay, Wis. 54305 Mr. E.W. James			DATE OF DOC <u>12-26-74</u>	DATE REC'D <u>12-30-74</u>	LTR <u>X</u>	TWX	RPT	OTHER
TO: E. Case			ORIG <u>1 signed</u>	CC	OTHER	SENT AEC PDR <u>XXX</u> SENT LOCAL PDR <u>XXX</u>		
CLASS	UNCLASS <u>XXX</u>	PROP INFO	INPUT	NO CYS REC'D <u>1</u>		DOCKET NO: <u>50-305</u>		

DESCRIPTION:

Ltr reporting an abnormal Occurrence at the Kewaunee Nuclear Facility.....trans the following.....

ENCLOSURES:

Abnormal Occurrence Report # 50-305/74-20 concerning.....Failure of Valve SI-2B (8809B), in the boric acid suction to the Safety injection pumps, to open during surveillance testing

PLANT NAME: Kewaunee

(1 cy encl rec'd)

FOR ACTION/INFORMATION

12-30-74

JB

BUTLER (S)	SCHWENCER (S)	ZIEMANN (S)	REGAN (E)
W/ Copies	W/ Copies	W/ Copies	W/ Copies
CLARK (S)	STOLZ (S)	DICKER (E)	LEAR (S)
W/ Copies	W/ Copies	W/ Copies	W/ Copies
PARR (S)	VASSALLO (S)	KNIGHTON (E)	SPEIS (S)
W/ Copies	W/ Copies	W/ Copies	W/ Copies
KNIEL (S)	✓ PURPLE (S)	YOUNGBLOOD (E)	
W/ Copies	W/ Copies	W/ Copies	

ACKNOWLEDGED

DO NOT REMOVE

INTERNAL DISTRIBUTION

<u>REG FILE</u>	<u>TECH REVIEW</u>	<u>DENTON</u>	<u>LIC. ASST.</u>	<u>A/T IND</u>
<u>W/ AEC PDR</u>	<u>SCHROEDER</u>	<u>GRIMES</u>	<u>DIGGS (S)</u>	<u>BRAITMAN</u>
<u>DOGC, ROOM P-506-A</u>	<u>MACCARRY</u>	<u>GAMILL</u>	<u>GEARIN (S)</u>	<u>SALTZMAN</u>
<u>MUNIZING/STAFF</u>	<u>KNIGHT</u>	<u>KASTNER</u>	<u>GOULBOURNE (S)</u>	<u>B. HURT</u>
<u>CASE</u>	<u>PAWLICKI</u>	<u>BALLARD</u>	<u>KREUTZER (E)</u>	
<u>GIAMBUSSO</u>	<u>SHAO</u>	<u>SPANGLER</u>	<u>LEE (S)</u>	<u>PLANS</u>
<u>BOYD</u>	<u>STELLO</u>		<u>MAIGRET (S)</u>	<u>MCDONALD</u>
<u>MOORE (S) (BWR)</u>	<u>HOUSTON</u>	<u>ENVIRO</u>	<u>REED (E)</u>	<u>CHAPMAN</u>
<u>DEYOUNG (S) (PWR)</u>	<u>NOVAK</u>	<u>MULLER</u>	<u>SERVICE (S)</u>	<u>DUBE w/input</u>
<u>SKOVHOLT (S)</u>	<u>CROSS</u>	<u>DICKER</u>	<u>SHEPPARD (S)</u>	<u>E. COUPE</u>
<u>GOLLER (S)</u>	<u>PIPPOLITO</u>	<u>KNIGHTON</u>	<u>SLATER (E)</u>	<u>D. THOMPSON (2)</u>
<u>P. COLLINS</u>	<u>TEDESCO</u>	<u>YOUNGBLOOD</u>	<u>SMITH (S)</u>	<u>KLECKER</u>
<u>DENISE</u>	<u>LONG</u>	<u>REGAN</u>	<u>TEETS (S)</u>	<u>F. WILLIAMS</u>
<u>REG OPR</u>	<u>LAINAS</u>	<u>PROJECT LDR</u>	<u>WILLIAMS (E)</u>	
<u>FILE &amp; REGION</u>	<u>BENAROYA</u>		<u>WILSON (S)</u>	
<u>T.R. WILSON</u>	<u>STEELE</u>	<u>HARLESS</u>	<u>INGRAM (S)</u>	
	<u>VOLIMER</u>			

EXTERNAL DISTRIBUTION

<u>1-LOCAL PDR Kewaunee, Wis.</u>	<u>(1) (2) (10) -NATIONAL LABS</u>	<u>1-PDR SAN/LA/NY</u>
<u>1-TIC (ABERNATHY)</u>	<u>1-W. PENNINGTON, RM E-201 G.T.</u>	<u>1-BROOKHAVEN NAT LAB</u>
<u>1-NSIC (BUCHANAN)</u>	<u>1-CONSULTANTS</u>	<u>1-G. ULRIKSON, ORNL</u>
<u>1-ASLB</u>	<u>NEWMARK/BLUME/ACBABIAN</u>	<u>1-AGMED (RUTH GUSSMAN)</u>
<u>1-NEWTON ANDERSON</u>		<u>RM B-127 G.T.</u>
<u>15-ACRS SENT TO LIC. ASST.</u>		<u>1-J. RUNKLES, RM E-201</u>
		<u>G.T.</u>

## WISCONSIN PUBLIC SERVICE CORPORATION

Public Service

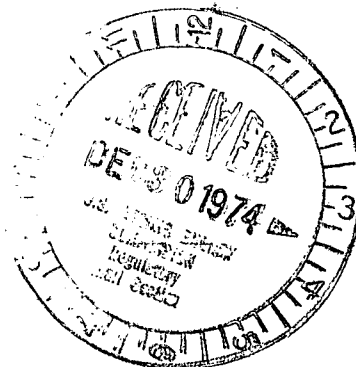
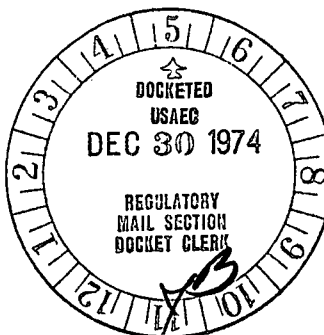
P.O. Box 1200, Green Bay, Wisconsin 54305

December 26, 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 1.0.a.1.d, we submit the following:

Report Number: 50-305/74-20

Report Date: December 26, 1974

Occurrence Date: December 16, 1974

Facility: Kewaunee Nuclear Power Plant  
Kewaunee, Wisconsin

Identification of Occurrence: Failure of valve SI-2B (8809B), in the boric acid suction to the safety injection pumps, to open during surveillance testing.

Conditions Prior to Occurrence: Plant operating base loaded  
Reactor Power - 76%  
Reactor Coolant Average Temperature - 556°F  
Reactor Coolant Pressure - 2235 psig  
Surveillance Test - 098 "Safety Injection Pump Test" in progress

Description of Occurrence: During performance of Surveillance Test 098, which verifies operability of all valves and pumps required to operate in an accident situation, it was determined that valve SI-2B failed to open upon demand. The thermal overload protection heaters were found to be tripped.

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Designation of the Apparent Cause of Occurrence: Thermal overload protection heaters will trip on locked rotor current which occurs when a valve fails to open upon energization of the drive motor. The cause is attributed to the jamming of the valve upon previous closure, which is an equipment malfunction.

Analysis of Occurrence: The valve's closure force is limited by the closure setting of the motor operator's torque switch. This switch setting was and is at its minimum value to minimize the probability of jamming the valve disk into the seat. The valve was manually operated immediately following the incident without difficulty. Upon manual closure and resetting of the heater trips, the valve was electrically operated a number of times without encountering a malfunction and returned to service.

There were no personnel injuries or exposures attributable to this occurrence. Since this valve is a redundant component and its counterpart SI-2A operated properly during the surveillance test, no consequences would result which would affect public safety.

Corrective Action: No further corrective action beyond that noted above is warranted at the present time.

Failure Data: During the preoperational test program, the valve internals were inspected. The seats and disk were verified to be properly mating and the disk guides were checked for burs and imperfections which would cause operating difficulties. This inspection was prompted by a failure to open during preliminary valve testing. This inspection revealed no apparent reason for the failure to open.

Following that inspection the valve was cycled a number of times, > 10, without malfunction and returned to service.

Valve Manufacturer - Anchor  
Motor Operator Manufacturer - Limitorque  
Valve Size/Type - 8"/Wedge disk gate  
Motor Operator Type - SNMB  
Motor Operator Size - 00  
Motor Operator Serial Number - 108864  
Motor Operator HP - 1.4

Very truly yours,

*E. W. James*

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

# LICENSEE EVENT REPORT

CONTROL BLOCK: 1 2 3 4 5 6

[PLEASE PRINT ALL REQUIRED INFORMATION]

LICENSEE NAME										LICENSE NUMBER										LICENSE TYPE					EVENT TYPE	
01	W	I	K	N	P	I					-						4	1	1	1	1	0	1			
7	8	9				14	15										25	26				30	31	32		

CATEGORY		REPORT TYPE		REPORT SOURCE		DOCKET NUMBER					EVENT DATE					REPORT DATE									
01	CON'T	P	0	T	L	0	5	0	-	0	3	0	5	1	2	1	6	7	4	1	2	2	6	7	4
7	8	57	58	59	60	61						68	69						74	75				80	

**EVENT DESCRIPTION**

02	Valve S1 2B (8809B) failed to open during Surveillance Testing.																							80
03	The motor thermal overload protection heaters were found tripped.																							80
04	Valve was manually operated, then electrically operated a number of times without																							80
05	failure and placed back in service.																							80
06																								80

SYSTEM CODE		CAUSE CODE		COMPONENT CODE					PRIME COMPONENT SUPPLIER		COMPONENT MANUFACTURER					VIOLATION	
07	S	F	E	V	A	L	V	O	P	N	L	2	0	0	N	N	
7	8	9	10	11	12	13	14	15	16	17	43	44	45	46	47	48	

**CAUSE DESCRIPTION**

08	Spurious failure. Limitorque Type - SNMB, Size - 00																							80
09	Serial Number 108864; Motor Size 1.4 hp; Anchor 8 inch																							80
10	Wedge disk gate valve																							80

FACILITY STATUS		% POWER		OTHER STATUS					METHOD OF DISCOVERY		DISCOVERY DESCRIPTION					
11	E	0	7	6						B						
7	8	9	10	11	12	13				44	45	46				80

FORM OF ACTIVITY RELEASED		CONTENT OF RELEASE		AMOUNT OF ACTIVITY					LOCATION OF RELEASE						
12															
7	8	9	10	11	12	13				44	45				80

**PERSONNEL EXPOSURES**

NUMBER		TYPE		DESCRIPTION					
13									
7	8	9	11	12	13				80

**PERSONNEL INJURIES**

NUMBER		DESCRIPTION					
14							
7	8	9	11	12			80

**OFFSITE CONSEQUENCES**

15																								80
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**LOSS OR DAMAGE TO FACILITY**

TYPE		DESCRIPTION					
16							
7	8	9	10				80

**PUBLICITY**

17																								80
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**ADDITIONAL FACTORS**

18																								80
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19																								80
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NAME: Michael Stern

PHONE: 414-432-3311