

CONTROL NO: _____

FILE: _____

FROM:
Carolina Power & Light Company
Raleigh, N.C. 27602
Mr. N.B. Bessac

DATE OF DOC
12-27-73

DATE REC'D
1-2-74

LTR
X

MEMO

RPT

OTHER

TO:
J.F. O'Leary

ORIG
3 signed

CC OTHER

SENT AEC PDR XXX
SENT LOCAL PDR XXX

CLASS UNCLASS PROP INFO
XXX

INPUT

NO CYS REC'D
40

DOCKET NO:
50-261

DESCRIPTION:
Ltr trans the following.....

ENCLOSURES:
ABNORMAL OCCURRENCE REPORT: 50-261/73-71,
Re: Abnormal Occurrence which occurred on
12-17-73 concerning a Malfunction of Valve
AFW V2-16C.

ACKNOWLEDGED

(40 cys encl rec'd)

DO NOT REMOVE

PLANT NAME: H.B. Robinson #2

FOR ACTION/INFORMATION

1-2-74

JB

BUTLER(L)	SCHWENCER(L)	ZIEMANN(L)	REGAN(E)
W/ Copies	W/ Copies	W/ Copies	W/ Copies
CLARK(L)	STOLZ(L)	DICKER(E)	
W/ Copies	W/ Copies	W/ Copies	W/ Copies
GOLLER(L)	VASSALLO(L)	KNIGHTON(E)	
W/ Copies	W/ Copies	W/ Copies	W/ Copies
KNIEL(L)	SCHEMEL(L)	YOUNGBLOOD(E)	
W/ Copies	W/ Copies	W/ Copies	W/ Copies

INTERNAL DISTRIBUTION

<u>REG FILE</u>	<u>TECH REVIEW</u>	DENTON	<u>LIC ASST</u>	<u>A/T IND</u>
✓ AEC PDR	✓ HENDRIE	GRIMES		BRAITMAN
✓ OGC, ROOM P-506A	SCHROEDER	GAMMILL	DIGGS (L)	SALTZMAN
✓ MUNTZING/STAFF	✓ MACCARY	KASTNER	GEARIN (L)	B. HURT
✓ CASE	✓ KNIGHT	BALLARD	GOULBOURNE (L)	<u>PLANS</u>
GIAMBUSSO	✓ PAWLICKI	SPANGLER	LEE (L)	MCDONALD
BOYD	✓ SHAO		MAIGRET (L)	DUBE w/Input
MOORE (L)(BWR)	✓ STELLO	<u>ENVIRO</u>	SERVICE (L)	<u>INFO</u>
DEYOUNG(L)(PWR)	✓ HOUSTON	MULLER	SHEPPARD (E)	C. MILES
✓ SKOVHOLT (L)	✓ NOVAK	DICKER	SMITH (L)	✓ B. KING
P. COLLINS	✓ ROSS	KNIGHTON	✓ TEETS (L)	
	✓ IPPOLITO	YOUNGBLOOD	WADE (E)	
✓ REG OPR	✓ TEDESCO	REGAN	WILLIAMS (E)	
FILE & REGION(3)	✓ LONG	PROJECT LDR	WILSON (L)	
✓ MORRIS	✓ LAINAS		DURHAM (E)	
✓ STEELE	✓ BENAROYA	HARLESS		
	✓ VOLLMER			

EXTERNAL DISTRIBUTION

✓ 1 - LOCAL PDR Hartville, S.C.	(1)(2)(10)-NATIONAL LAB'S	1-PDR-SAN/LA/NY
✓ 1 - DTIE(ABERNATHY)	1-ASLBP(E/W Bldg, Rm 529)	1-GERALD LELLOUCHE
✓ 1 - NSIC(BUCHANAN)	1-W. PENNINGTON, Rm E-201 GT	BROOKHAVEN NAT. LAB
1 - ASLB(YORE/SAYRE/ WOODARD/"H" ST.	1-CONSULTANT'S	1-AGMED(Ruth Gussman)
✓ 16 - CYS ACRS HOLDING Sent to Teets	NEWMARK/BLUME/AGBABIAN	RM-B-127, GT.
1-2-74	1-GERALD ULRIKSON...ORNL	1-RD..MULLER..F-309 GT



Carolina Power & Light Company

December 27, 1973

File: NG-3514

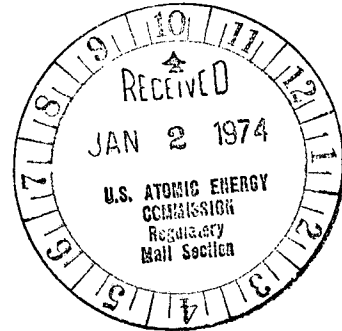
Serial: NG-73-608

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

50-2614

Dear Mr. O'Leary:

H. B. ROBINSON UNIT NO. 2
LICENSE DPR-23
MALFUNCTION OF VALVE AFW V2-16C



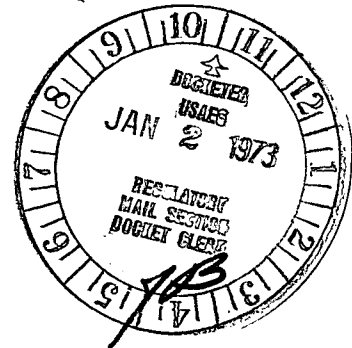
In accordance with Section 6.6.2.a of the Technical Specifications for H. B. Robinson Unit No. 2, the attached Abnormal Occurrence Report is submitted for your information. This report fulfills the requirements for a written report within 10 days of an abnormal occurrence and is in accordance with the format set forth in Regulatory Guideline 1.16.

Yours very truly,

N. B. Bessac
Manager
Nuclear Generation

JMB:mvp
Attachment

cc: Messrs. C. D. Barham
T. E. Bowman
B. J. Furr
D. V. Menscer
N. C. Moseley
E. E. Utley
D. B. Waters



ABNORMAL OCCURRENCE REPORT

1. REPORT NO

50-261/73-71

2a DATE

December 27, 1973

2b OCCURRENCE DATE

December 17, 1973

3. FACILITY

H. B. Robinson Unit No. 2
Hartsville, South Carolina

4. IDENTIFICATION OF OCCURRENCE

Malfunction of Valve AFW V2-16C

5. CONDITIONS PRIOR TO OCCURRENCE

The plant was operating at 100% power with all conditions normal.

6. DESCRIPTION OF OCCURRENCE

At 0930 hours on December 17, 1973, while performing the monthly periodic test on the Auxiliary Feedwater System, AFW V2-16C, (Motor Driven Auxiliary Feedwater Pumps Discharge Valve to "C" Steam Generator) failed to operate properly. This valve was being opened remotely to verify flow when the indicating lights on the RTOB indicated the valve to be in an intermediate position. Investigation proved this to be correct as the valve had failed to move to the open position.

7. DESIGNATION OF THE APPARENT CAUSE OF THE OCCURRENCE

The occurrence was caused by the failure of the valve to open completely, possibly due to binding in the valve motor operator. The exact cause was determined when the operator was disassembled for inspection on 12/20/73.

8. ANALYSIS OF THE OCCURRENCE

There were no personnel injuries nor was any radioactive materials involved in this occurrence.

The failure of this valve would have prevented addition of water to the "C" steam generator from the motor driven Auxiliary Feedwater Pumps. The system capability was not defeated, however, as the Steam Driven Auxiliary Feedwater Pump, which discharges into another supply line, was tested and proved capable of performing its intended function, i.e., removing decay heat from the reactor via the Steam Generators and steam dump system.

The valve was operated locally with the handwheel to free valve motion. However, the indicating lights at the RTOB remained in the intermediate position.

The valve in question was inoperable for a period of approximately 15 minutes. After verifying proper valve motion the operator limit switches were reset. Total time involved in returning the valve to operation and resetting limit switches was approximately 5 hours.

9. CORRECTIVE ACTION

The Plant Nuclear Safety Committee reviewed this occurrence and determined that the plant could be operated safely as the valve in question was test operated several times after resetting limit switches on December 17, 1973, with satisfactory results. The committee recommended that the motor operator for this valve be disassembled and inspected to determine if any condition exists which could cause a recurrence of this problem. The limit switch drive gear appeared to be defective and was replaced.

10. FAILURE DATA

One malfunction of this valve occurred on August 21, 1973, while performing the periodic test on this system. The problem was determined to be a damaged worn drive gear in the motor operator which prevented valve stem movement. The worn gear was replaced at that time and the valve returned to satisfactory service.