

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 1128

FILE: INCIDENT REPORT

FROM: Carolina Power & Light Co. Raleigh, N.C. E.E. Utdey		DATE OF DOC 1-27-75	DATE REC'D 1-31-75	LTR xxx	TWX	RPT	OTHER
TO: Mr. Norman C. Moseley		ORIG 2-signed	CC	OTHER	SENT AEC PDR <u>xxxx</u> SENT LOCAL PDR <u>xxx</u>		
CLASS	UNCLASS xxxx	PROP INFO	INPUT	NO CYS REC'D 40	DOCKET NO: 50-261		

DESCRIPTION:

Ltr trans the following:

Note: Please advise applicant to put docket no. on all correspondence.

ENCLOSURES:

Abnormal Occurrence #75-1 on 1-14-75 concerning failure of "A" Boric Acid Transfer Pump

PLANT NAME: H.B. Robinson #2

FOR ACTION/INFORMATION

2-1-75 JGB

BUTLER (S) W/ Copies	SCHWENCER (S) W/ Copies	ZIEMANN (S) W/ Copies	REGAN (E) W/ Copies
CLARK (S) W/ Copies	STOLZ (S) W/ Copies	DICKER (E) W/ Copies	LEAR (S) W/ Copies
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INTERNAL DISTRIBUTION

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

1-LOCAL PDR Hartsville, S.C. 1-TIC (ABERNATHY) 1-NSIC (BUCHANAN) 1-ASLB 1-NEWTON ANDERSON 5-ACRS SENT TO LIC. ASST. TEETS	(1) (2) (10) -NATIONAL LABS 1-W. PENNINGTON, RM E-201 G.T. 1-CONSULTANTS NEWMARK/BLUME/AEBABIAN	1-PDR SAN/LA/NX 1-BROOKHAVEN NAT LAB 1-G. ULRIKSON, ORNL 1-AGMED (RUTH GUSSMAN) RM B-127 G.T. 1-J. RUNKLES, RM E-201 G.T.
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Carolina Power & Light Company

January 27, 1975

DR Central files

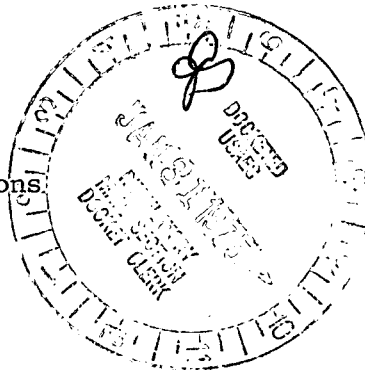
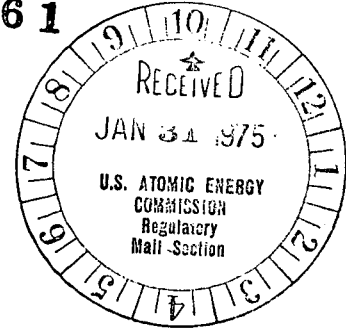
File: NG-3513 (R)
NG-3514 (R)

Serial: NG-75-113

50 - 261

Mr. Norman C. Moseley, Director
Directorate of Regulatory Operations
U. S. Atomic Energy Commission
Region II, Suite 818
230 Peachtree Street, N. W.
Atlanta, Georgia 30303

Mr. Donald Knuth, Director
Directorate of Regulatory Operations
Office of Regulation
U. S. Atomic Energy Commission
Washington, D. C. 20545



Dear Sirs:

H. B. ROBINSON UNIT NO. 2
LICENSE NO. DPR-23
FAILURE OF "A" BORIC ACID TRANSFER PUMP

In accordance with 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 requirement for a written report within ten days of an Abnormal Occurrence and is in accordance with the format set forth in Regulatory Guideline 1.16.

Yours very truly,

E. E. Utley
Vice-President
Bulk Power Supply

JBM:mc
Attachment

cc: Mr. N. B. Bessac
Mr. W. E. Graham
Mr. J. B. McGirt
Mr. D. V. Menscer
Mr. D. B. Waters

1128

ABNORMAL OCCURRENCE REPORT

1. Report No. 50-261/75-1
- 2a. Report Date January 22, 1975
- 2b. Occurrence Date January 14, 1975
3. Facility H. B. Robinson Unit No. 2
Hartsville, South Carolina

4. Identification of Occurrence

Failure of "A" Boric Acid Transfer Pump constituting an abnormal occurrence as defined in Section 1.8.d of the Technical Specifications.

5. Conditions Prior to Occurrence

The plant was operating at 100% nuclear power with 701 MW net electrical output. "A" Boric Acid Transfer Pump was lined up to recirculate the Boron Injection Tank and "B" Boric Acid Transfer Pump was lined up to the boric acid blender.

6. Description of Occurrence

At 0940 hours, "A" Boric Acid Transfer Pump was found to be tripped. The pump was known to be running five minutes earlier. The thermal overload, at the breaker, was reset. However, subsequent testing revealed no discharge pressure with the motor running. "B" Boric Acid Transfer Pump was test operated satisfactorily and "A" pump was removed from service.

7. Designation of Apparent Cause of Occurrence

Inspection of the pump and motor showed that the shaft had failed in the vicinity of the impeller keyway. The only additional damage to the unit was the scoring of the stator liner. This is believed to have resulted after the shaft failure and caused the circuit breaker trip.

8. Analysis of Occurrence

Upon determination that "A" Boric Acid Transfer Pump was inoperable, "B" Boric Acid Transfer Pump was tested and its operability was verified. Plant safety was, therefore, not jeopardized, and no limiting condition of operation was violated. No personnel injuries, undue exposures, releases of radioactive materials, or threat to the public health and safety resulted from this occurrence.

9. Corrective Action

"A" Boric Acid Transfer Pump was replaced with a spare pump, test operated satisfactorily and returned to service at 0103 hours January 15, 1975. A replacement pump, Model GVH-10K, has been recommended by the pump vendor and is on order. Additionally, the G. E. 20K stub shaft modification, referenced in previous reports, is being pursued in an effort to alleviate the recurring shaft breakage problem in the keyway area.

10. Failure Data

August 15, 1973 Crane Chempump Model G. E. 20K broken shaft near keyway.
December 4, 1973 Crane Chempump Model G. E. 20K broken shaft near keyway.
March 20, 1974 Crane Chempump Model G. E. 20K broken shaft near keyway.
August 8, 1974 Crane Chempump Model G. E. 20K broken shaft near keyway.
August 26, 1974 Crane Chempump Model G. E. 20K broken shaft at rotor
(pump end).
December 4, 1974 Crane Chempump Model G. E. 20K broken shaft at rotor
(pump end).