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FROM: Carolina Power & Light Co. Raleigh, N.C. 276t02 E.E. Utlye			DATE OF DOC 7-10-75	DATE REC'D 7-23-75	LTR XX	TWX	RPT	OTHER
TO: Mr. Norman C. Mosley			ORIG 1 signed	CC 39	OTHER	SENT AEC PDR XX SENT LOCAL PDR XX		
CLASS	UNCLASS XXX	PROP INFO	INPUT	NO CYS REC'D 40		DOCKET NO: 50-261		

DESCRIPTION: Ltr trans the following:

ENCLOSURES: Abnormal Occurrence Report AO-50-261/75-12 on 6-25-75 re failure of "A" Boric Acid transfer pump....

(40 cys encl rec'd)

ACKNOWLEDGED

Do Not Remove

PLANT NAME: B. Robinson Unit 2.

FOR ACTION/INFORMATION DHL 7-23-75

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Carolina Power & Light Company

Regulatory Docket File

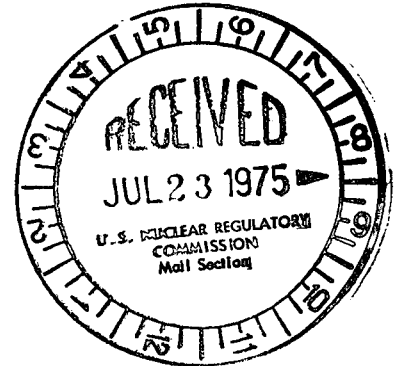
July 10, 1975

50 - 261

FILE: NG-3513 (R)

SERIAL: NG-75-1044

Mr. Norman C. Moseley, Director
U. S. Nuclear Regulatory Commission
Region II, Suite 818
230 Peachtree Street, N. W.
Atlanta, Georgia 30303

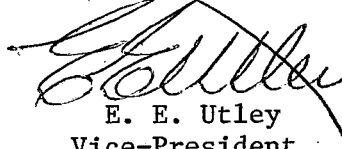


Dear Mr. Moseley:

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.

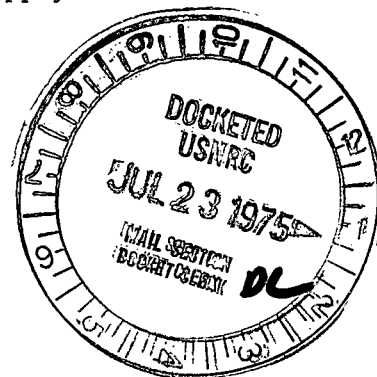
Yours very truly,


E. E. Utley
Vice-President
Bulk Power Supply

DBW:cpw

Attachment

cc: Mr. N. B. Bessac
Mr. P. W. Howe
Mr. J. A. Jones
Mr. R. E. Jones
Mr. W. B. Kincaid
Mr. D. Knuth
Mr. J. B. McGirt
Mr. D. B. Waters



ABNORMAL OCCURRENCE REPORT

8/2/75 10/10/75 7-10-75

1. REPORT NO.: 50-261/75-12
- 2a. REPORT DATE: July 1, 1975
- 2b. OCCURRENCE DATE: June 25, 1975
3. FACILITY: H. B. Robinson Unit No. 2
Hartsville, South Carolina 29550
4. IDENTIFICATION OF OCCURRENCE

Failure of "A" Boric Acid Transfer Pump constituting an abnormal occurrence in that it resulted in the failure of one component of an engineered safety feature that caused or threatened to cause the system to be incapable of performing its intended function. This is defined as an abnormal occurrence per Paragraph 1.8.d of facility Technical Specifications.

5. CONDITIONS PRIOR TO OCCURRENCE

The plant was operating at 100% power. "A" Boric Acid Transfer Pump was lined up to recirculate "A" Boric Acid Tank with the Boron Injection Tank. "B" Boric Acid Transfer Pump was lined up to recirculate "B" Boric Acid Tank.

6. DESCRIPTION OF OCCURRENCE

At 0928 hours "A" Boric Acid Transfer Pump was found stopped. It had been observed running at 0925 recirculating the "A" Boric Acid Storage Tank with the Boron Injection Tank. "B" Boric Acid Transfer Pump was running on recirculation with "B" Boric Acid Storage Tank at this time.

7. DESIGNATION OF APPARENT CAUSE OF OCCURRENCE

The pump motor was checked by the plant electrical group and found to be electrically sound. Further investigation revealed the pump shaft to be broken at the keyway. This type of failure has been previously postulated to be the result of a high stress area in the keyway vicinity where the shaft diameter is reduced.

8. ANALYSIS OF OCCURRENCE

At the time "A" Boric Acid Transfer Pump failed, "B" Boric Acid Transfer Pump was in operation. Plant safety was, therefore, not jeopardized and no limiting condition of operation was violated. No personnel injuries, undue exposures, release of radioactive materials or threat to the public health and safety resulted from this occurrence.

9. CORRECTIVE ACTION

The "A" Boric Acid Transfer Pump was rebuilt, reinstalled and declared operable at 0002 hours, June 26, 1975. Therefore, both pumps were operable with "A" pump being out of service less than the 24 hours allowed by facility Technical Specifications.

As reported in previous abnormal occurrences, plans have been made to install a new pump, Model GVH-10K, recommended by the pump vendor, Chem-Pump. The subject pump is in shipment and expected to be on site this summer. A modification procedure is being prepared for its installation. However, installation will require an outage and the task shall be scheduled for the next major outage.

In the interim, work is continuing on the previously reported modification involving "stub shafting" existing GE-20K Chem-Pumps in an effort to eliminate the stress riser area on the shaft. This modification is in the final stages of completion involving machining or impeller and will be installed as soon as available.

10. FAILURE DATA

Listed below are Model GE-20K previous shaft failures:

August 15, 1973	Crane Chem-Pump Model GE-20K broken shaft near keyway.
December 4, 1973	Crane Chem-Pump Model GE-20K broken shaft near keyway.
March 20, 1974	Crane Chem-Pump Model GE-20K broken shaft near keyway.
April 6, 1974	Crane Chem-Pump Model GE-20K broken shaft near keyway.
August 8, 1974	Crane Chem-Pump Model GE-20K broken shaft near keyway.
August 15, 1974	Crane Chem-Pump Model GE-20K broken shaft at rotor (pump end).
September 26, 1974	Crane Chem-Pump Model GE-20K broken shaft at rotor (pump end).
December 4, 1974	Crane Chem-Pump Model GE-20K broken shaft at rotor (pump end).
January 14, 1975	Crane Chem-Pump Model GE-20K broken shaft near keyway.
May 21, 1975	Crane Chem-Pump Model GE-20K broken shaft near keyway.