

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 13162

FILE: INCIDENT REPORT

FROM: Carolina Power & Light Co. Raleigh, N.C. 27602 E.E. Utley		DATE OF DOC 12-18-74	DATE REC'D 12-30-74	LTR XX	TWX	RPT	OTHER
TO: Mr. N. C. Moseley		ORIG 2 signed	CC 37	OTHER	SENT AEC PDR XX SENT LOCAL PDR XX		
CLASS	UNCLASS XXX	PROP INFO	INPUT	NO CYS REC'D 39	DOCKET NO: 50-261		
DESCRIPTION: Ltr trans the following:				ENCLOSURES: Abnormal Occurrence AO-50-261/ 74-30 on 12-7-74 involving reduction of "B" safety injection accumulator pressure below minimum limits..... (39 cys encl rec'd)			
PLANT NAME: H.B. Robinson Unit 2.							

FOR ACTION/INFORMATION

DHL 1-2-75

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INTERNAL DISTRIBUTION

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Carolina Power & Light Company

December 18, 1974

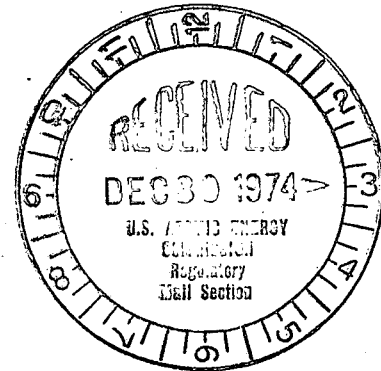
50-261

File: NG-3513 (R)

Serial: NG-74-1511

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



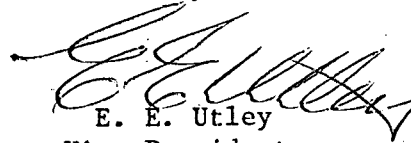
Dear Sirs:

H. B. ROBINSON UNIT NO. 2
LICENSE NO. DPR-23

REDUCTION OF "B" SAFETY INJECTION ACCUMULATOR PRESSURE BELOW MINIMUM LIMITS

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, Revision 1.

Yours very truly,


E. E. Utley
Vice-President
Bulk Power Supply

DBW:mvp
Attachment

cc: Messrs. N. B. Bessac
W. B. Howell
J. B. McGirt
D. V. Menscer
D. B. Waters

13162

ABNORMAL OCCURRENCE REPORT

12-18-74

1. Report No. 50-261/74-30
- 2a. Report Date December 16, 1974
- 2b. Occurrence Date December 7, 1974
3. Facility H. B. Robinson Unit No. 2
Hartsville, South Carolina 29550

4. Identification of Occurrence

Reduction of "B" safety injection accumulator pressure to less than the 600 psig minimum pressure specified in Technical Specification paragraph 3.3.1.1.c.

5. Conditions Prior to Occurrence

The reactor was at 100% power with all systems normal. Pressurization of "B" safety injection accumulator was in progress.

6. Description of Occurrence

The safety injection accumulators were being individually pressurized to maintain their pressure within the operating range of 625 to 665 psig. At 1321 hours on December 7, 1974, during the pressurization of accumulator "B", accumulator safety valve SI-858B lifted at approximately 650 psig. This resulted in immediate depressurization of the accumulator to approximately 580 psig due to nitrogen loss through the valve. When the safety valve reseated, the plant control operator commenced repressurization of the accumulator. Pressure was returned to 600 psig at 1323 hours. Pressurization continued till 1327 hours, at which time the pressure was stablized at 635 psig.

The reduction in pressure to less than 600 psig was in violation of specification 3.3.1.1.c of the H. B. Robinson Technical Specifications. The duration of this violation was two minutes.

7. Designation of Apparent Cause of Occurrence

Since initial startup, the safety valves have been subjected to various temperatures and pressures. These operating conditions apparently induced a slight drift in the amount of tension on the safety valve spring. Such a change in the spring tension can result in a variation of the setpoint of the safety valve as occurred in this case.

8. Analysis of Occurrence

"B" safety injection accumulator was depressurized to approximately 20 psi below the 600 psi pressure required by Technical Specification,

paragraph 3.3.1.1.c. The normal alarm settings for pressure are 625 psig $+10$ psi and 665 psig $+0$ psig for low alarm and high alarm respectively. The accumulator was still functional, but at a reduced pressure. The pressure was returned to above 600 psig in two minutes.

With the exception of the incorrect pressure setting, the safety valve, SI-858B, was functional. The setting was conservative in terms of overpressurization of the accumulator, but the "deadband" of operation of the valve allowed blowdown of the accumulator to below the pressure required by Technical Specification. This does not constitute a violation of the Limiting Conditions for Operation because the requirements set forth in specification 3.3.1.2 allows one accumulator to be inoperable for up to four (4) hours. The accumulator pressure was restored, and the accumulator fully operable before the specified time period expired.

The occurrence did not result in endangering the health or safety of any personnel, and no radioactive release was involved. In that one accumulator is permitted to be out of service for four hours, the safety of the plant was not compromised by this occurrence.

9. Corrective Action

Maintenance personnel removed safety injection accumulator "B" from service at 1501 hours on December 7, 1974, as permitted by Specification 3.3.1.2.a of the H. B. Robinson Technical Specifications. Safety valve SI-858B was then adjusted and tested. The safety valve lifted at 690 psig and reseated at 610 psig. According to Volume 7 of the plant operating manual, Precautions, Limitations, and Setpoints, the correct pressure setting for valve SI-858B is 700 psig. At a lift pressure of 690 psig, the valve blowdown point prevents the accumulator depressurization below 600 psig and is conservative in view of overpressurization of the accumulator. The accumulator was returned to service at 1524 hours on December 7, 1974.

10. Failure Data

An equipment failure was not the cause or result of this occurrence. Additionally no previous reportable events of this type have occurred involving the safety injection accumulators. The accumulator relief valve which affected the depressurization, was a Crosby Valve, size 2J3, style J0-35 special, type B.