

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 10691

FILE: _____

FROM: Carolina Pwr. & Light Raleigh, N.C. 27602 Mr. E.E. Utley			DATE OF DOC 10-11-74	DATE REC'D 10-15-74	LTR X	TWX	RPT	OTHER
TO: N.C. Moseley			ORIG 3 signed	CC	OTHER	SENT AEC PDR <u>XXX</u> SENT LOCAL PDR <u>XXX</u>		
CLASS	UNCLASS XXX	PROP INFO	INPUT	NO CYS REC'D 40		DOCKET NO: 50-261		

DESCRIPTION:

Ltr re abnormal occurrence..."Safety Injection Accumulator Volumes out of Tech Spec limits.. trans the following....

ENCLOSURES:

Ten day written report on the abnormal occurrence.....

ACKNOWLEDGED

(40 cys encl rec'd)

PLANT NAME: H.B. Robinson

DO NOT REMOVE

FOR ACTION/INFORMATION

10-17-74 JB

BUTLER (L) W/ Copies	SCHWENCER (L) W/ Copies	ZIEMANN (L) W/ Copies	REGAN (E) W/ Copies
CLARK (L) W/ Copies	STOLZ (L) W/ Copies	DICKER (E) W/ Copies	✓ LEAR (L) W/4Copies
PARR (L) W/ Copies	VASSALLO (L) W/ Copies	KNIGHTON (E) W/ Copies	W/ Copies
KNIEL (L) W/ Copies	PURPLE (L) W/ Copies	YOUNGBLOOD (E) W/ Copies	W/ Copies

INTERNAL DISTRIBUTION

✓ REG FILE ✓ AEC PDR ✓ OGC, ROOM P-506A ✓ MUNTZING/STAFF CASE GIAMBUSSO BOYD MOORE (L) (BWR) DEYOUNG (L) (PWR) SKOVHOLT (L) GOLLER (L) P. COLLINS DENISE ✓ REG OPR ✓ FILE & REGION (3) ✓ MORRIS ✓ STEELE	TECH REVIEW ✓ SCHROEDER ✓ MACCARY ✓ KNIGHT ✓ PAWLICKI ✓ SHAO ✓ STELLO ✓ HOUSTON ✓ NOVAK ✓ ROSS ✓ IPPOLITO ✓ TEDESCO ✓ LONG ✓ LAINAS ✓ BENAROYA ✓ VOLIMER	DENTON GRIMES GAMMILL KASTNER BALLARD SPANGLER ENVIRO MULLER DICKER KNIGHTON YOUNGBLOOD REGAN PROJECT LDR HARLESS	LIC ASST DIGGS (L) GEARIN (L) GOULBOURNE (L) KREUTZER (E) LEE (L) MAIGRET (L) REED (E) SERVICE (L) SHEPPARD (L) SLATER (E) SMITH (L) ✓ TEETS (L) WILLIAMS (E) WILSON (L)	A/T IND BRAITMAN SALTZMAN B. HURT PLANS MCDONALD CHAPMAN DUBE w/input E. COUPE ✓ D. THOMPSON (2) ✓ KLECKER ✓ EISENHUT
---	--	--	---	--

EXTERNAL DISTRIBUTION

✓ 1 - LOCAL PDR <u>Hartsville, S.C.</u> ✓ 1 - TIC (ABERNATHY) (1)(2)(10) ✓ 1 - NSIC (BUCHANAN) 1 - ASLB 1 - Newton Anderson ✓ 5 - ACRS HOLDING	1 - NATIONAL LABS 1 - ASLBP (E/W Bldg, Rm 529) 1 - W. PENNINGTON, Rm E-201 GT 1 - B&M SWINEBROAD, Rm E-201 GT 1 - CONSULTANTS NEWMARK/BLUME/AGBABIAN	1 - PDR-SAN/LA/NY 1 - BROOKHAVEN NAT LAB 1 - G. ULRIKSON, ORNL 1 - AGMED (RUTH GUSSMAN) Rm B-127 GT 1 - R. D. MUELLER, Rm E-201 GT
---	---	---

Sent to
Teets
10-17-74



Carolina Power & Light Company

Regulatory Docket File

October 11, 1974

50 - 261

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

Serial: NG-74-1228

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. Edson G. Case, Acting Director
Directorate of Licensing
Office of Regulation
U. S. Atomic Energy Commission
Washington, D. C. 20545

Dear Sirs:

H. B. ROBINSON UNIT NO. 2
LICENSE DPR-23
SAFETY INJECTION ACCUMULATOR VOLUMES
OUT OF SPECIFICATION LIMITS

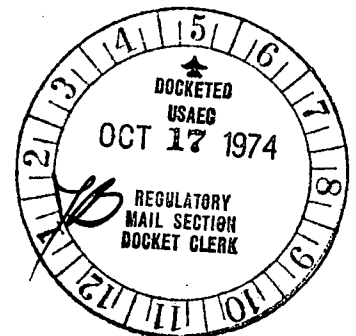
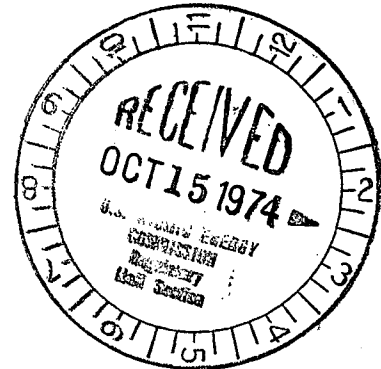
In accordance with Section 6.6.2 of the Technical Specifications for H. B. Robinson Unit No. 2, the attached Abnormal Occurrence Report is submitted for your information. This report fulfills the requirements for a written report within ten days of an abnormal occurrence and is in accordance with the format set forth in Regulatory Guideline 1.16, Revision 1.

Yours very truly,

E. E. Utley
Vice-President
Bulk Power Supply

JH:DBW:mvp
Attachment

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



10691

ABNORMAL OCCURRENCE REPORT

1. Report No. 50-261/74-21
- 2a. Date October 8, 1974
- 2b. Occurrence Date October 1, 1974
3. Facility H. B. Robinson Steam Electric Plant, Unit No. 2
Hartsville, South Carolina 29550

4. Identification of Occurrence

Safety Injection Accumulators' volumes were maintained outside of Technical Specification limits.

5. Conditions Prior to Occurrence

Routine plant operation was continuing at 100% power. All systems were normal.

6. Description of Occurrence

Preparations were being made to comply with the new proposed Final Acceptance Criteria (FAC) Technical Specifications when it was discovered that a dimension used to calculate the accumulator setpoints was in error. Consequently the level setpoints were incorrect.

The Final Acceptance Criteria Technical Specifications revise the required range of volumes to be maintained in the accumulators. The volume range was increased from 725 ft.³ - 791 ft.³ to 825 ft.³ - 841 ft.³. On October 1, 1974 as-built level instrumentation piping dimensions were measured for use in determining the new instrumentation setpoints. These dimensions were then used in calculating the new limits. A recheck of the existing alarm setpoints was also conducted, and they were found to be in error.

The setpoints were in excess of the Technical Specifications' limits by a maximum of 14.2 ft.³ or 1.8%. The violation of required volumes had existed since plant startup in March 1971.

7. Designation of Apparent Cause of Occurrence

The cause of the occurrence was the use of inaccurate dimensions in the calculation of the setpoints. The dimension that was in error was the distance from the accumulator level tap to the lower tap of the level transmitter column. All previous calculations were based on a value of 80 inches for the dimension. Actual measurements taken on October 1, 1974, showed this dimension to be 82.5 inches. This figure was then used in determining the level indication zero point and establishing required level control alarm points.

8. Analysis of Occurrence

The reanalysis of the loss of coolant accident performed in accordance with the new and more restrictive Final Acceptance Criteria revealed that the present accumulator borated water volume range should be increased to 825 - 841 ft.³. Since the subject violation resulted from volumes in excess of the present limits but less than these proposed limits, it can be correctly assumed that safe conditions prevailed throughout the period during which the accumulator levels were incorrectly calibrated.

The fact that the accumulators contained more borated water than stated in the Technical Specifications does not prevent their proper operation. During the period, accumulator pressures required for activating and injecting the accumulator contents into the Reactor Coolant System were maintained. At no time was there any danger or threat to the general public or to the plant employees as a result of this violation.

9. Corrective Action

It was decided by the plant management, with the approval of the AEC Region III Compliance, that the existing alarm setpoints would not be corrected until October 3, 1974, when the new proposed F.A.C. Technical Specifications were to be placed into use. The alarm points were accordingly adjusted at that time. Refer to the attached Table for level alarm setpoints.

To prevent a reoccurrence of this situation, the dimensions necessary for calibration of the level transmitters are documented with the setpoint modification.

10. Failure Data

Safety Injection Accumulator level alarm points were reported out of specification on August 3, 1973. They were adjusted at that time, but erroneous dimensions used in the setpoint calculations led to insertion of incorrect limits.

TABLE 1

ACCUMULATOR SETPOINTS

	<u>INTERIM ACCEPTANCE</u> <u>CRITERIA</u>	<u>FINAL ACCEPTANCE</u> <u>CRITERIA</u>
Required Capacity	775 - 791 ft. ³	825 - 841 ft. ³
Original Tech. Spec. Setpoints	15% - 33%	80.6% - 99.4%
August 1973 Alarm Setpoints	24% - 38%	-
Correct Tech. Spec. Setpoints	2.3% - 21.2%	61.5% - 80.4%
Correct Alarm Setpoints	5% - 19%	64% - 78%