

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 11350

FILE: _____

FROM: Carolina Power & Light Co. Raleigh, N.C. 27602 E.E. Utley		DATE OF DOC 11-1-74	DATE REC'D 11-5-74	LTR X	TWX	RPT	OTHER
TO: Mr. Karl B. Goller		ORIG 3 signed	CC	OTHER	SENT AEC PDR <u>XX</u>		
					SENT LOCAL PDR <u>XX</u>		
CLASS	UNCLASS XXX	PROP INFO	INPUT	NO CYS REC'D 40	DOCKET NO: 50-261		

DESCRIPTION: Ltr re Postulated Pipe Failure dated 11-9-73.....furnishing addl info re "Postulated Pipe Failure Analysis Outside of Containment".....

ENCLOSURES:

Do Not Remove

ACKNOWLEDGED

PLANT NAME: H.B. Robinson Unit 2

FOR ACTION/INFORMATION

DHL 11-7-74

BUTLER (L) W/ Copies	SCHWENCER (L) W/ Copies	ZIEMANN (L) W/ Copies	REGAN (E) W/ Copies
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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 EDESCO 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) GLECKER EISENHUT VARGA CARTER
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EXTERNAL DISTRIBUTION

✓ 1 - LOCAL PDR Hartville, S.C.	1 - NATIONAL LABS	1 - PDR-SAN/LA/NY
1 - TIC (ABERNATHY) (1)(2)(10)	1 - ASLBP (E/W Bldg, Rm 529)	1 - BROOKHAVEN NAT LAB
1 - NSIC (BUCHANAN)	1 - W. PENNINGTON, Rm E-201 GT	1 - G. ULRIKSON, ORNL
1 - ASLB	1 - B&M SWINEBROAD, Rm E-201 GT	1 - AGMED (RUTH GUSSMAN) Rm B-127 GT
1 - Newton Anderson	1 - CONSULTANTS	1 - R. D. MUELLER, Rm E-201 GT
✓ 16 - ACRS XXXXXXXXXX SENT TO LIC. ASST. S. TEETS 11-7-74	NEWMARK/BLUME/AGBABIAN	

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Regulatory

File Cy.

Carolina Power & Light Company

November 1, 1974

50-261

File: NG-3514 (R)

Serial: NG-74-1295

Mr. Karl R. Goller
Assistant Director for Operating Reactors
Directorate of Licensing
Office of Regulation
U. S. Atomic Energy Commission
Washington, D. C. 20545

Dear Mr. Goller:

H. B. ROBINSON UNIT NO. 2

LICENSE NO. DPR-23

POSTULATED PIPE FAILURE ANALYSIS OUTSIDE OF CONTAINMENT

The report on "Postulated Pipe Failure Analysis Outside of Containment" dated November 9, 1973, was prepared in response to AEC requests for information concerning the subject at the H. B. Robinson Plant.

In a recent telephone conversation with a member of your staff, it was noted that several sections of the report seem to indicate that further evaluation and/or modification is required by Carolina Power & Light Company. The sections are as follows:

Section 3.2.5, which applies to main steam line routing and rupture evaluation, reads: "Protection from Adverse Environmental Conditions - Ventilation penetrations will be sealed when required to prevent steam environment from affecting required equipment located within the Control Room Air Conditioning Room, Control Room, Relay Room, Class 1 Area, Control Rod Drive Mechanism (CRDM) Room and Diesel Generator Rooms."

Section 4.2.5, which applies to feedwater line routing and rupture evaluation, reads: "Protection from Adverse Environmental Conditions - Ventilation penetrations will be sealed as necessary to prevent the steam environment from affecting required equipment located within the Control Room Air Conditioning Room, Control Room, Relay Room, Class 1 Area, CRDM Room and Diesel Generator Rooms."

November 1, 1974

Section 8.5, Second paragraph reads "One area is in the mechanical penetration area where some electrical cable trays pass near the vicinity of some of the blowdown lines. Further investigation is proceeding to determine the environmental effect on the cabling in these trays required to mitigate the consequences of a blowdown line break."

We have performed an evaluation of the areas mentioned in Sections 3.2.5, 4.2.5 and 8.5 with the following results:

1. There are no ventilation ducts running from or to areas in vicinity of main steam lines or feedwater lines to spaces specified in Sections 3.2.5 or 4.2.5. Therefore, any requirement to seal ventilation penetrations in these areas does not apply.
2. Three cable trays in the vicinity of the steam generator blowdown lines contain cables associated with reactor protection and engineered safety features. The channels which pass through these trays are physically independent of the associated redundant channels which pass through cable trays in other areas. This redundancy assures plant operability following any pipe failure in the immediate area.


In addition to channel redundancy, investigation of the postulated blowdown line break shows that operability of the cables in the trays will not be affected assuming a single circumferential break as defined in Section 2.2.2 of the report. Jet impingement at the nearest point of contact with the cable trays will not result in loss of cable function. Forces on the cable trays were determined in accordance with Section 11 of the report and found to be less than 4 psi.

It is concluded that the areas mentioned in Sections 3.2.5, 4.2.5 and 8.5 of the report are adequately protected against the environmental effects of high energy lines in those areas.

JMB:mvp

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

Yours very truly,


E. E. Utley
Vice-President
Bulk Power Supply