

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 5154

FILE: 010

FROM: Carolina Power & Light Company Raleigh, N. C. 27602 E. E. Utley			DATE OF DOC 6-4-74	DATE REC'D 6-10-74	LTR X	MEMO	RPT	OTHER
TO: Mr. J. F. O'Leary			ORIG 3 signed	CC	OTHER	SENT AEC PDR X SENT LOCAL PDR X		
CLASS	UNCLASS	PROP INFO	INPUT	NO CYS REC'D 40		DOCKET NO: 50-261		
						XXXXX		

DESCRIPTION:

Ltr trans the following:

ENCLOSURES:

REPORT: Abnormal Occurrence Report No. 74-11 on 5-27-74, in which the containment purge fans operated below the required Tech Specs limit.

Do Not Remove

PLANT NAME: H. B. Robinson Unit # 2

(40 cys rec'd)

ACKNOWLEDGED

FOR ACTION/INFORMATION

6-11-74

AB

BUTLER(L)	SCHWENCER(L)	ZIEMANN(L)	REGAN(E)
W/ Copies	W/ Copies	W/ Copies	W/ Copies
CLARK(L)	STOLZ(L)	DICKER(E)	
W/ Copies	W/ Copies	W/ Copies	W/ Copies
PARR(L)	VASSALLO(L)	KNIGHTON(E)	
W/ Copies	W/ Copies	W/ Copies	W/ Copies
KNIEL(L)	PURPLE (L)	YOUNGBLOOD(E)	
W/ Copies	W/ 7 Copies	W/ Copies	W/ Copies

INTERNAL DISTRIBUTION

<input checked="" type="checkbox"/> REG FILE	<input checked="" type="checkbox"/> TECH REVIEW	DENTON	<input checked="" type="checkbox"/> LIC ASST	<input checked="" type="checkbox"/> A/T IND
<input checked="" type="checkbox"/> AEC PDR	<input checked="" type="checkbox"/> HENDRIE	GRIMES		BRAITMAN
<input checked="" type="checkbox"/> OGC, ROOM P-506A	<input checked="" type="checkbox"/> SCHROEDER	GAMMILL	DIGGS (L)	SALTZMAN
<input checked="" type="checkbox"/> MUNTZING/STAFF	<input checked="" type="checkbox"/> MACCARY	KASTNER	GEARIN (L)	B. HURT
<input checked="" type="checkbox"/> CASE	<input checked="" type="checkbox"/> KNIGHT	BALLARD	GOULBOURNE (L)	<u>PLANS</u>
GIAMBUSSO	<input checked="" type="checkbox"/> PAWLICKI	SPANGLER	LEE (L)	MCDONALD
BOYD	<input checked="" type="checkbox"/> SHAO		MAIGRET (L)	DUBE w/Input
MOORE (L)(BWR)	<input checked="" type="checkbox"/> STELLO	<u>ENVIRO</u>	REED (E)	<u>INFO</u>
DEYOUNG(L)(FWR)	<input checked="" type="checkbox"/> HOUSTON	MULLER	SERVICE (L)	C. MILES
SKOVHOLT (L)	<input checked="" type="checkbox"/> NOVAK	DICKER	SHEPPARD (L)	<input checked="" type="checkbox"/> KLECKER
<input checked="" type="checkbox"/> COLLIER(L)(Ltr)	<input checked="" type="checkbox"/> ROSS	KNIGHTON	SLATER (E)	<input checked="" type="checkbox"/> EISENHUT
P. COLLINS	<input checked="" type="checkbox"/> IPPOLITO	YOUNGBLOOD	SMITH (L)	
DENISE	<input checked="" type="checkbox"/> TEDESCO	REGAN	TEETS (L)	<u>AOR FILE</u>
<u>REG OPR</u>	<input checked="" type="checkbox"/> LONG	PROJECT LDR	WADE (E)	<input checked="" type="checkbox"/> D. THOMPSON (2)
<input checked="" type="checkbox"/> FILE & REGION(3)	<input checked="" type="checkbox"/> LAINAS		WILLIAMS (E)	
<input checked="" type="checkbox"/> MORRIS	<input checked="" type="checkbox"/> BENAROYA	HARLESS	WILSON (L)	
<input checked="" type="checkbox"/> STEELE	<input checked="" type="checkbox"/> VOLLMER			

EXTERNAL DISTRIBUTION

<input checked="" type="checkbox"/> 1 - LOCAL PDR Hartville, S. C.	(1)(2X10)-NATIONAL LAB'S	1-PDR-SAN/LA/NY
<input checked="" type="checkbox"/> 1 - TIC (ABERNATHY)	1-ASLBP(E/W Bldg, Rm 529)	1-GERALD LELLOUCHE
<input checked="" type="checkbox"/> 1 - NSIC(BUCHANAN)	1-W. PENNINGTON, Rm E-201 GT	BROOKHAVEN NAT. LAB
1 - ASLB	1-CONSULTANT'S	1-AGMED(Ruth Gussman)
1 - P. R. DAVIS (AEROJET NUCLEAR)	NEWMARK/BLUME/AGBABIAN	RM-B-127, GT.
<input checked="" type="checkbox"/> 16 - CYS ACRS HOLDING SENT TO LIC ASST.	1-GERALD ULRIKSON...ORNL	1-RD..MULLER..F-309 GT
S. TEETS ON 6-11-74	1-B & M SWINEBROAD, Rm E-201 GT	



Carolina Power & Light Company

June 4, 1974

File: NG-3514

Serial: NG-74-691

50-261

Mr. John F. O'Leary, Director
Directorate of Licensing
Office of Regulation
U. S. Atomic Energy Commission
Washington, D. C. 20545

Dear Mr. O'Leary:

H. B. ROBINSON UNIT NO. 2
LICENSE DPR-23
CONTAINMENT PURGE FAN OPERATION BELOW ALLOWABLE FLOW RATE

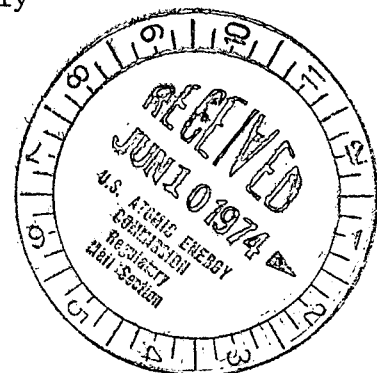
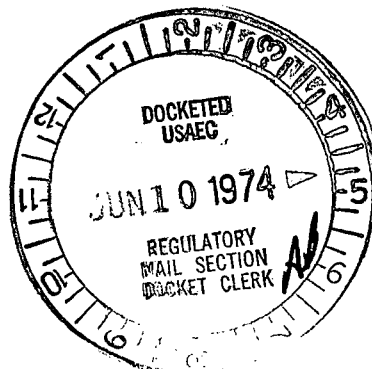
In accordance with Section 6.6.2.a of the Technical Specifications for H. B. Robinson Unit No. 2, the attached Abnormal Occurrence Report is submitted for your information. This report fulfills the requirements for a written report within ten days of an abnormal occurrence and is in accordance with the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

Yours very truly,

E. E. Utley
Vice-President
Bulk Power Supply

DBW:mvp
Attachment

cc: Messrs. N. B. Bessac
T. E. Bowman
B. J. Furr
W. E. Graham
D. V. Menscer
N. C. Moseley
D. B. Waters
R. A. Watson



ABNORMAL OCCURRENCE REPORT

1. Report No. 74-11
- 2a. Date June 1, 1974
- 2b. Occurrence Date May 27, 1974
3. Facility H. B. Robinson Unit No. 2
Hartsville, South Carolina 29550

4. Identification of Occurrence

HVE-1A and HVE-1B, containment purge fans, operating below 10% of design flow constituting an abnormal occurrence as defined in Section 3.8.2.c of the Technical Specifications.

5. Conditions Prior to Occurrence

The plant was in refueling shutdown for the second refueling outage. Fuel movement was in progress with one containment purge fan in operation.

6. Description of Occurrence

At approximately 1600 hours on May 27, 1974, a full written report was received from the contractor who performed the plant ventilation systems HEPA and charcoal filter tests prior to the outage. The flow distribution analysis on the Containment Purge Filter System showed that both HVE-1A and HVE-1B fans were presently operating at 28,100 CFM which is 80% of the 35,000 CFM design flow. This was below the required 90% flow. The containment purge system was immediately secured since fuel handling was in progress.

7. Designation of Apparent Cause of the Occurrence

The ventilation in-place filter efficiency and fan flow tests were performed after plant shutdown and before the fuel shuffle began. At the time the flow tests were performed, the individuals taking and evaluating the data did not recognize any problem in the flow being below allowable limits on the C. V. Purge Fans. This was complicated by the fact that the plant was operating under Technical Specifications which required $\geq 75\%$ of design flow for these fans. Negotiations had been underway for several months with DRL for completely revised Technical Specifications regarding ventilation filter systems required for refueling. Although the plant had advance notice on the general content of these Specifications, the actual Specifications containing the requirement for the fans to operate within 10% of design flow were not received until the day before fuel handling began. The fact that the Purge Fans had not performed to this level was not realized until the final test report was received from the test contractor after fuel handling had commenced.

8. Analysis of Occurrence

The Containment Vessel Purge Fans withdraw air from the Containment Vessel and discharge it to the plant vent. The fan suction housing contains HEPA and charcoal filters to limit radioactive release in the event of a fuel handling accident. Fuel handling in containment may take place with the Purge Fans running or secured, but the fans are usually operated during fuel handling for personnel comfort. The filter tests showed efficiency of both the charcoal and HEPA filters to be well within Technical Specification limits. Since the fans were operating below design flow, the demand on the filters was reduced and their efficiencies could be expected to be as good or better than at design flow. Therefore, there was no reduction of the ability of these filters to perform their intended function during a fuel handling accident. Furthermore, the normal accountable release of airborne radioactivity in the Containment Vessel during purge operations was conservative since the release rate is based on the design flow of 35,000 CFM. It is, therefore, concluded that this incident had no adverse effect on the safety of plant operation or the general public.

9. Corrective Action

The system was tested and analyzed for possible causes of the low flow, and dampers within the filter housing for each fan were found to be restricting flow. Each fan was operated and the dampers reset in accordance with an approved procedure for flow measurement to permit the fans to operate within limits. HVE-1B was returned to normal operation on May 28, 1974, with a flow of 33,300 CFM and HVE-1A was returned to normal operation on May 31, 1974, with a flow of 36,300 CFM.

10. Failure Data

No failures of this type have been experienced previously.