

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 3848

FILE: *MISC*

FROM: Carolina Power & Light Co. Raleigh, North Carolina N. B. Bessac			DATE OF DOC 4-29-74	DATE REC'D 5-1-74	LTR X	MEMO	RPT	OTHER
TO: John F. O'Leary			ORIG 3 signed	CC 37	OTHER	SENT AEC PDR XXX SENT LOCAL PDR XXX		
CLASS	UNCLASS	PROP INFO	INPUT	NO CYS REC'D		DOCKET NO:		
	XXX		XXX	40		50-261		

DESCRIPTION:

Ltr requesting temporary Suspension of Steam Generator Lower Phosphate Limit

ENCLOSURES:

**ACKNOWLEDGED
DO NOT REMOVE**

PLANT NAME: H. B. ROBINSON UNIT #2

FOR ACTION/INFORMATION 5-1-74 GMC

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/9 Copies	W/ Copies	W/ Copies

INTERNAL DISTRIBUTION

✓ REG FILE	TECH REVIEW	DENTON	LIC ASST	A/T IND
✓ AEC PDR	HENDRIE	GRIMES		BRAITMAN
✓ OGC, ROOM P-506A	SCHROEDER	GAMMILL	DIGGS (L)	SALTZMAN
✓ MUNIZING/STAFF	MACCARY	KASTNER	GEARIN (L)	B. HURT
CASE	KNIGHT	BALLARD	GOULBOURNE (L)	PLANS
GIAMBUSO	PAWLICKI	SPANGLER	LEE (L)	MCDONALD
BOYD	SHAO		MAIGRET (L)	✓ DUBE w/Input
MOORE (L) (BWR)	STELLO	ENVIRO	REED (E)	INFO
DEYOUNG(L) (PWR)	HOUSTON	MULLER	SERVICE (L)	C. MILES
SKOVHOLT (L)	NOVAK	DICKER	SHEPPARD (L)	B. KING (E/W-358)
✓ COLLER(L)	ROSS	KNIGHTON	SLATER (E)	KLECKER
P. COLLINS	IPPOLITO	YOUNGBLOOD	✓ SMITH (L)	EISENHUT
DENISE	TEDESCO	REGAN	TEETS (L)	
✓ REG OPR	LONG	PROJECT LDR	WADE (E)	✓ E. COUPE
FILE & REGION(3)	LAINAS		WILLIAMS (E)	
MORRIS	BENAROYA	HARLESS	WILSON (L)	
STEELE	VOLIMER			

EXTERNAL DISTRIBUTION

✓ 1 - LOCAL PDR HARTVILLE, SC	(1) (2) (10) - NATIONAL LAB'S	1-PDR-SAN/LA/NY
✓ 1 - TIC (ABERNATHY)	1-ASLBP (E/W Bldg, Rm 529)	1-GERALD LELLOUCHE
✓ 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.
✓ 16 - CYS ACRS HOLDING	1-GERALD ULRIKSON...ORNL	1-RD..MULLER..F-309 GT
Sent to Lic Asst Teets 5-1-74	1-B & M SWINEBROAD, Rm E-201 GT	



Carolina Power & Light Company

April 29, 1974

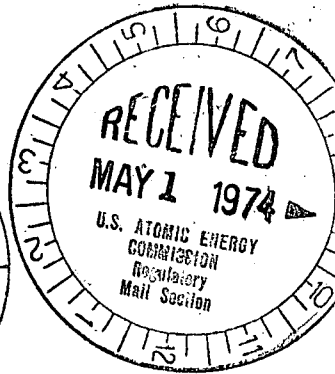
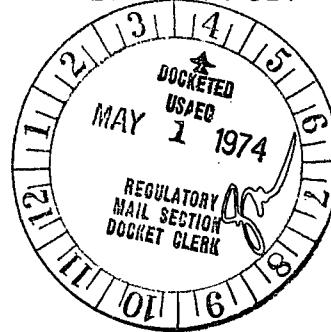
File: NG-3514

Serial: NG-74-524

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

50-261

Dear Mr. O'Leary:



H. B. ROBINSON UNIT NO. 2
LICENSE DPR-23
REQUEST FOR TEMPORARY SUSPENSION OF STEAM GENERATOR LOWER
PHOSPHATE LIMIT

Westinghouse Electric Corporation has requested that at the completion of this Plant's refueling outage (scheduled to commence May 4, 1974) all steam generators be blown down continuously during heatup. This recommendation is made in anticipation that such actions will remove substantial amounts of low phosphate ratio material from the steam generators.

Recent research by Westinghouse has suggested the buildup of low molar ratio phosphate sludge on steam generator tubes. Further, there is evidence that this low molar ratio phosphate sludge may exhibit "acid run away" with subsequent general tube wastage beneath the sludge. As a result, Westinghouse has changed their prior Na/PO_4 ratio range in steam generators from 2.0 - 2.6 to 2.3 - 2.6. Maintenance of this new ratio range, Westinghouse believes, will eliminate further buildup of the low phosphate ratio sludge.

However, present sludge deposits in the steam generators must be removed. Westinghouse has written a procedure for this purpose. Essentially it consists of two parts. First, during the refueling outage, sludge will be mechanically removed from steam generator tubes by high pressure water spray. Second, by continuous blow down during heatup (with no phosphate addition) Westinghouse believes low ratio phosphate species will be removed from the steam generator.

To accomplish this last item it is necessary to have a temporary suspension of our Technical Specification requirement 3.4.1 (f) which states:

"The reactor coolant shall not be heated above 350°F unless the following conditions are met:

The concentration of phosphate ions in the secondary coolant shall be greater than 10 ppm and less than 80 ppm."

REGULATORY DOCKET FILE COPY

3848

Mr. John F. O'Leary

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April 29, 1974

Therefore, it is requested that requirements to maintain secondary coolant phosphate ions at greater than 10 ppm be temporarily suspended during the heatup following our May 4, 1974, refueling outage.

Yours very truly,



N. B. Bessac

Manager

Nuclear Generation

JLH:NBB:mvp

cc: Messrs. T. E. Bowman
B. J. Furr
D. V. Menscer
W. B. Howell
E. E. Utley
D. B. Waters