

**NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)**

CONTROL NO: 5257

FILE: _____

FROM: American Elec. Power Co New York, N.Y. John E. Dolan			DATE OF DOC 5-9-75	DATE REC'D 5-12-75	LTR XX	TWX	RPT	OTHER
TO: NRC			ORIG 1 Signed	CC	OTHER	SENT AEC PDR <u>XXXX</u> SENT LOCAL PDR <u>XXX</u>		
CLASS	UNCLASS XXX	PROP INFO	INPUT	NO CYS REC'D 1		DOCKET NO: 50-315		

DESCRIPTION:

Ltr.
Re our ltr. of 3-14-75....& their ltr. of 4-14-75
...furnishing inform. ref. System capabilities
and operating procedures to assure that boron
precipitation would not compromise logn-term
Core Cooling capability following a LOCA.....
Cook # 1

PLANT NAME:

ENCLOSURES:

FOR ACTION/INFORMATION

VCR 5-14-75

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/ Copies
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KNIEL (L) W/ Copies	PURPLE (L) W/ Copies	YOUNGBLOOD (E) W/ Copies	LICENSING PROJECT MANAGER W/ Copies

INTERNAL DISTRIBUTION

<u>REG FILE</u> NRC PDR OGC, ROOM P-506A GOSSICK/STAFF CASE GIAMBUSSO BOYD MOORE (L) DEYOUNG (L) SKOVHOLT (L) GOLLER (L) (Ltr) P. COLLINS DENISE REG OPR FILE & REGION (2) MPIC STEELE	<u>TECH REVIEW</u> SCHROEDER MACCARY KNIGHT PAWLICKI SHAO STELLO HOUSTON NOVAK 3 ROSS IPPOLITO TEDESCO J. COLLINS LAINAS BENAROYA VOLLMER	<u>DENTON</u> GRIMES GAMMILL KASTNER BALLARD SPANGLER <u>ENVIRO</u> MULLER DICKER KNIGHTON YOUNGBLOOD REGAN PROJECT LDR <u>COTA</u> HARLESS	<u>LIC ASST.</u> R. DIGGS (L) H. GEARIN (L) E. GOULBOURNE (L) P. KREUTZER (E) J. LEE (L) M. MAIGRET (L) S. REED (E) M. SERVICE (L) S. SHEPPARD (L) M. SLATER (E) H. SMITH (L) S. TEETS (L) G. WILLIAMS (E) V. WILSON (L) R. INGRAM (L)	<u>A/T IND.</u> BRAITMAN SALTZMAN MELTZ <u>PLANS</u> MCDONALD CHAPMAN DUBE (Ltr) E. COUPE PETERSON HARTFIELD (2) KLECKER EISENHUT WIGGINTON
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EXTERNAL DISTRIBUTION

1 - LOCAL PDR St Joseph Mech.
1 - TIC (ABERNATHY) (1)(2)(10) - NATIONAL LABS
1 - NSIC (BUCHANAN) 1 - W. PENNINGTON, Rm E-201 GT
1 - ASLB 1 - CONSULTANTS
1 - Newton Anderson
14 ACRS HOLDING/SENT M. Service
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 - J. D. RUNKLES, Rm E-201
GT

AMERICAN ELECTRIC POWER Service Corporation



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JOHN E. DOLAN
Executive Vice President
Engineering & Construction

May 9, 1975

Docket No. 50-315
DPR-58

U.S. Nuclear Regulatory Commission
Directorate of Regulatory Operations
Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Attention: Mr. James G. Keppler, Regional Director

Gentlemen:

By letter dated March 14, 1975 Mr. Karl Kniel, Chief of Light Water Reactors Branch 2-2, Division of Reactor Licensing, U.S. Nuclear Regulatory Commission, requested that we review our (system capabilities and operating procedures) to assure that boron precipitation would not compromise long-term core cooling capability following a LOCA. This review was to consider all aspects of the design including component qualification in the LOCA environment.

In our April 14, 1975 response letter to Karl Kniel, we indicated that we were currently investigating the environmental effects on motor drives for valves which are used to transfer from cold to hot leg injection. A copy of both letters are attached for your information.

Mr. Kniel was informed of the results of our investigation in a telephone conversation on May 2, 1975. Mr. Ken Baker of your office was also notified on the same day. This letter transmits the results of our investigations.

5257



[The body of the document contains extremely faint and illegible text, appearing as scattered black specks and thin horizontal lines across the page.]

May 9, 1975

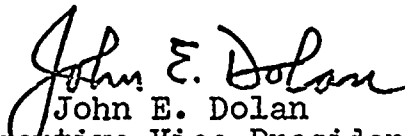
We have determined that on the Donald C. Cook Nuclear Plant, Unit No. 1, the motor operators currently installed on the transfer valves are not specifically designed to operate in the Post-LOCA environment as they have Class "B" insulation which is rated for 150°F service.

However, we believe that the motor operators now installed will function as required. As we described in pages 7.5-16 thru 7.5-18 of the Cook Nuclear Plant FSAR and where we referred to Westinghouse WCAP-7410L, Westinghouse ran tests on both Class RH and Class B motor operators subjected to Post LOCA conditions. The Class B Operator survived the 1st day of exposure with 12 complete reversing cycles and did not fail to operate until more than 5 days of exposure. Our valves only need to operate once, approximately 24 hours after the accident.

We have replacement "Class RH" motor operators available on site and plan to replace the existing operators of the 4 valves involved. These replacement motor operators are designed and qualified for the post LOCA environment. The replacement will be done at the next outage.

In the interim, both the vendor of the currently installed motor operators and our engineering staff are confident that the valve operators now in place will function at least once after being subjected to the post LOCA environment for 24 hours.

Very truly yours,


John E. Dolan
Executive Vice President
Engineering and Construction

JED:ma
Enclosure

cc: Gerald Charnoff
Richard Walsh
Robert J. Vollen
Robert C. Callen
Peter W. Steketee
R. W. Jurgensen - Bridgman
R. S. Hunter
K. Kniel - NRC

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