

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

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|--|--|--|------------|--|
| TO: Mr. J. G. Keppler | | FROM: Indiana & Michigan Power Co. Bridgman, MI. 49106 D. V. Shaller | | DATE OF DOCUMENT 01/30/78 |
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| DESCRIPTION | ENCLOSURE |
| Informing of condition discovered at Units 1 & 2 during the Unit No 2 preoperational test program concerning elec design problem when attempting to restart containment spray pumps following the switchover of the Pumps' suction from the refueling water storage tank to the containment recirculation sump... | |
| 2p | |
| PLANT NAME : COOK UNITS 1 & 2 jcm 02/24/78 | |

| SAFETY | | FOR ACTION/INFORMATION | | ENVIRONMENTAL | |
|------------------|----------------------|------------------------|----------------|---------------|--|
| ASSIGNED AD: | <i>VASSALLO</i> | ASSIGNED AD: | V. MOORE (LTR) | | |
| BRANCH CHIEF: | <i>KNIEL</i> | BRANCH CHIEF: | | | |
| PROJECT MANAGER: | <i>MR. MLYNCHAK</i> | PROJECT MANAGER: | | | |
| LIC. ASST: | <i>J. LEE</i> | LIC. ASST: | | | |
| | <i>SCHWENGER (3)</i> | | B. HARLESS | | |

| INTERNAL DISTRIBUTION | | | | |
|-----------------------|----------------|--------------------|------------------|--|
| REG FILES | SYSTEMS SAFETY | PLANT SYSTEMS | SITE SAFETY & | |
| NRC-PDR | R. MATTSON | TEDESCO | ENVIRON ANALYSIS | |
| I & E (2) | SCHROEDER | BENAROYA | DENTON & MULLER | |
| OELD | | LATNAS | CRUTCHFIELD | |
| GOSSICK & STAFF | ENGINEERING | IPPOLITO | | |
| HANAUER | KNIGHT | F. ROSA | ENVIRON TECH | |
| WTPC | BOSNAK | | ERNST | |
| CASE | SIHWEIL | OPERATING REACTORS | BALLARD | |
| ROYD | PAWLICKI | STELLO | YOUNGBLOOD | |
| DeYoung | | EISENHUT | | |
| PROJECT MANAGEMENT | REACTOR SAFETY | SHAO | SITE TECH | |
| SKOVHOLT | ROSS | BAER | GAMMILL (2) | |
| P. COLLINS | NOVAK | BUTLER | | |
| HOUSTON | ROSZTOCZY | GRIMES | SITE ANALYSIS | |
| MELTZ | CHECK | | VOLLMER | |
| HELTENES | | S.D | BUNCH | |
| SK | AT & I | | J. COLLINS | |
| | SALTZMAN | | KREGER | |
| | RUTBERG | | | |

| EXTERNAL DISTRIBUTION | | | CONTROL NUMBER |
|-----------------------|----------|--|---------------------------------------|
| LPDR: Sr Joseph (M) | NAT LAB: | | <i>MA 4</i> 780550030 <i>SD</i> |
| TIC | | | |
| NSIC | | | |
| REG V (J. HANCHETT) | | | |
| 16 CYS SENT CATEGORY | <i>B</i> | | |



INDIANA & MICHIGAN POWER COMPANY

DONALD C. COOK NUCLEAR PLANT
P.O. Box 458, Bridgman, Michigan 49106

D. Lankam
REGULATORY DOCKET FILE COPY

January 30, 1978

Donald C. Cook Nuclear Plant Units 1 & 2
Docket Nos. 50-315 and 50-316
DPR Nos. 58 & 74



Mr. J. G. Keppler, Regional Director
Office of Inspection and Enforcement
United States Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

Dear Mr. Keppler:

This letter is to inform you of a condition at the Donald C. Cook Nuclear Plant Units 1 and 2 that was discovered during the Unit No. 2 preoperational test program while performing the emergency power system train independence test. An electrical design problem was identified when attempting to restart the containment spray pumps following the switchover of the pumps' suction from the refueling water storage tank to the containment recirculation sump as follows:

When the pump control switch was removed from the "pull to lock-out" position the pump breaker closed due to the standing start signal from the containment Hi-Hi pressure signal. The control switch then was moved through the "trip" position which reopened the breaker. The circuit design is such that the "standing closed" position is superseded by the "anti-pumping" protection feature of the breaker which prevents the breaker from closing when placed in the "run" position. During the testing the pump was restarted within fifteen seconds. The standing start (closed) signal can be removed by resetting the containment spray signal. However, the reset push buttons are spring loaded to the non-reset position.

As a result of these findings all applicable operating procedures have been revised to read as follows:

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1. Push and hold both spray actuation reset buttons
2. Start the affected containment spray pump
3. Release spray actuation reset button

A design change has already been incorporated on Unit 2 such that the lockout feature will not reclose the pump breaker until the control switch is returned to the neutral position. The same design change will be instituted on Unit 1 during the next refueling outage.

A safety evaluation was performed to establish the consequences of the above problem in the unlikely event of a loss of coolant accident. Results of this evaluation indicate that the consequences are consistent with the plant design basis. Therefore, the above cited incident does not constitute either an unreviewed safety question or an adverse affect on the health and safety of the public.

Since the occurrence does not prevent the Plant from performing its intended design safety functions and steps required to circumvent the switch operation problem have already been instituted into existing procedures, we conclude that no significant safety problem did exist or exists today on either Unit 1 or Unit 2.

Very truly yours,



D. V. Shaller
Plant Manager

DVS:pk

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RECEIVED DOCUMENT
CONTROL DESK

1978 FEB 22 PM 2 45

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