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Writer's Direct Dial Number

April 3, 1980  
TLL 155

Office of Inspection and Enforcement  
Attn: B. H. Grier, Director  
Region I  
U. S. Nuclear Regulatory Commission  
631 Park Avenue  
King of Prussia, Pa. 19406

Dear Sir:

Three Mile Island Nuclear Station, Unit II (TMI-2)  
Operating License No. DPR-73  
Docket No. 50-320  
Licensee Event Report 80-009/03L-0

Attached please find Licensee Event Report 80-009/03L-0 concerning the inoperability of Emergency Diesel Generator "B" (DF-X-1B).

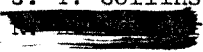
This event was a violation of Technical Specification 3.8.1.1.b and is reportable under Technical Specification 6.9.1.9.b.

Sincerely,

/s/ R. F. Wilson

R. F. Wilson  
Director, TMI-II

RFW:SDC:hah

cc: J. T. Collins  


A002  
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1/1

LICENSEE EVENT REPORT

CONTROL BLOCK: \_\_\_\_\_ (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 | P | A | T | M | I | 2 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 3 | 4 | 1 | 1 | 1 | 1 | 4 | 5  
7 8 9 14 15 25 26 30 57 58  
 LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT 58

CON'T  
 0 1 | R | E | P | O | R | T | S | O | U | R | C | E | L | 0 | 5 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 7 | 0 | 3 | 0 | 5 | 8 | 0 | 8 | 0 | 4 | 0 | 5 | 8 | 0 | 9  
7 8 60 61 68 69 74 75 80  
 REPORT SOURCE DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | During recovery mode operation (cold shutdown state) and while Emergency Diesel  
 0 3 | Generator "A" (DF-X-1A) was down for annual maintenance, Emergency Generator "B" (DF-  
 0 4 | X-1B) was started to verify operability per the action statement of T.S. 3.8.1.1.  
 0 5 | The Diesel Generator would start but could not be loaded. This event had no effect  
 0 6 | on the facility or the natural circulation convective core cooling. This event  
 0 7 | was a violation of Tech. Spec. 3.8.1.1.b and is reportable under 6.9.1.9.b.

0 8 | \_\_\_\_\_  
7 8 9  
 0 9 | E | E | 11 | A | 12 | B | 13 | C | K | T | B | R | K | 14 | E | 15 | Z | 16  
9 10 11 12 13 18 19 20  
 SYSTEM CODE CAUSE CODE CAUSE SUBCODE COMPONENT CODE COMP. SUBCODE VALVE SUBCODE

17 | LER/RO REPORT NUMBER | 8 | 0 | 21 | 22 | SEQUENTIAL REPORT NO. | 0 | 0 | 0 | 9 | 24 | 26 | OCCURRENCE CODE | 0 | 3 | 28 | 29 | REPORT TYPE | L | 30 | REVISION NO. | 0 | 32  
 18 | X | 19 | X | 20 | Z | 21 | Z | 22 | 0 | 0 | 0 | 0 | 23 | 24 | ATTACHMENT SUBMITTED | Y | 23 | 41 | N | 24 | 42 | PRIME COMP. SUPPLIER | A | 25 | 43 | COMPONENT MANUFACTURER | W | 1 | 2 | 0 | 26 | 44 | 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | During maintenance/troubleshooting of the "A" Emergency Diesel Generator, a switch  
 1 1 | controlling the input signal to the frequency relay (Unit "B") was opened  
 1 2 | rendering the "B" Emergency Diesel Generator inoperable. The switch was closed.  
 1 3 | The switches will be labeled to distinguish metering vs. relaying circuits.

1 4 | \_\_\_\_\_  
7 8 9  
 1 5 | G | 28 | 0 | 0 | 0 | 29 | OTHER STATUS | N/A | 30 | 44 | METHOD OF DISCOVERY | Z | 31 | 45 | DISCOVERY DESCRIPTION | N/A | 32 | 80

1 6 | Z | 33 | Z | 34 | AMOUNT OF ACTIVITY | N/A | 35 | 44 | LOCATION OF RELEASE | N/A | 36 | 80

1 7 | 0 | 0 | 0 | 37 | Z | 38 | DESCRIPTION | N/A | 39 | 80

1 8 | 0 | 0 | 0 | 40 | DESCRIPTION | N/A | 41 | 80

1 9 | Z | 42 | DESCRIPTION | N/A | 43 | 80

2 0 | Z | 44 | DESCRIPTION | N/A | 45 | 80

NAME OF PREPARER S. D. Chaplin PHONE: (717) 948-8461

8004140377

LICENSEE EVENT REPORT  
NARRATIVE REPORT  
TMI-II

LER 80-009/03L-0  
EVENT DATE-MARCH 5, 1980

I. EXPLANATION OF OCCURRENCE

Diesel Generator, DF-X-1A, was out of service for annual inspection and maintenance. In accordance with action Statement for Technical Specification 3.8.1.1, diesel generator DF-X-1B was started to verify operability. The diesel successfully started, but the green ready to load light was not obtained, and the diesel generator breaker could not be closed. This resulted in both class IE diesel generators being inoperable simultaneously. This resulted in entering action statement b of Tech Spec 3.8.1.1.

II. CAUSE OF THE OCCURRENCE

The problem was found to be an open frequency relay circuit caused by the inadvertent opening of a switch on DF-X-1B local panel 309. This defeated the up-to-frequency permissive for closing the diesel generator breaker.

A varmeter was removed from panel 309 at 11:30 on the date indicated, to aid in trouble-shooting a voltage regulator malfunction on DF-X-1A (the DF-X-1A varmeter was defective). In order to allow the DF-X-1B control circuits to function properly with the meter removed, and to prevent damage to current transformers, 3 switches which open the PT (potential transformer) circuits to the meter and 3 CT (current transformer) shorting switches were placed in the test position. These 6 switches are located in a group of 7 covered switches on the front of panel 309, and can be placed in the test position without removing the diesel from an operable emergency standby status. However, when these 6 switches were actuated, the seventh switch was also actuated, inadvertently. This resulted in the removal of the input signal to the frequency relay.

III. CIRCUMSTANCES SURROUNDING THE OCCURRENCE

At the time of the occurrence, the Unit II facility was in a long term cold shutdown state (Recovery Mode). The reactor decay heat was being removed via natural circulation to the A steam generator which is operating in a 'steaming' mode. Throughout the event there was no Loss of Natural Circulation in the RCS system.

IV. CORRECTIVE ACTION TAKEN OR TO BE TAKEN

The defective meter from DF-X-1A was installed in DF-X-1B, and all switches were returned to normal position. The diesel generator was

and loaded successfully, and run for one hour to verify operability.

Switches will be labeled to distinguish between switch functions for the metering and relaying circuits.

The administrative controls and the need to utilize approved procedures for maintenance involving removal of equipment from service will be emphasized to the personnel involved.

V. COMPONENT FAILURE DATA

N/A