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Writer's Direct Dial Number:

May 19, 1983
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81-012

Office of Inspection and Enforcement
Attn: Mr. J. M. Allan
Acting Regional Administrator
Region I
US Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

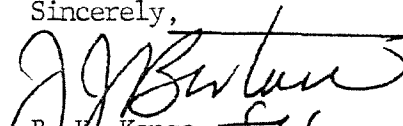
Dear Sir:

Three Mile Island Nuclear Station, Unit 2 (TMI-2)
Operating License No. DPR-73
Docket No. 50-320
Updated Licensee Event Reports

The Licensee Event Reports listed in Attachment 1 have been updated and are enclosed as Attachment 2 to this letter.

If you have any questions, please contact Mr. J. J. Byrne of my staff.

Sincerely,


B. K. Kanga *fw*
Director, TMI-2

BKK/RDW/jep

Attachments

CC: Mr. L. H. Barrett, Deputy Program Director - TMI Program Office
Dr. B. J. Snyder, Program Director - TMI Program Office

8305310001 830519
PDR ADCK 05000320
S PDR

IE22

LIST OF UPDATED LICENSEE EVENT REPORTS

<u>LER NO.</u>	<u>LER NO.</u>
80-01	81-12
80-05	81-20
80-07	81-22
80-12	81-23
80-49	81-32
80-54	81-34
80-55	81-35
80-56	81-36
80-57	81-38
81-04*	82-34
81-08	
81-10	

* Event date on original Licensee Event Report was incorrect. This revision corrects the event date.

LICENSEE EVENT REPORT
NARRATIVE REPORT

TMI-II

LER 81-012/03X-1

EVENT DATE - April 22, 1981

I. EXPLANATION OF OCCURRENCE

At 0842 hours on April 22nd, the "A" Emergency Diesel Generator, DF-X-1A, was started for follow-up testing from a previous failure to start. The generator started but failed to develop an output voltage. The problem was found to be a failed mechanical latching mechanism in the K-1 Relay. The failure of the latching mechanism prevented the voltage shutdown system from being reset properly which in turn prevented generator field flashing by maintaining a short circuit across the generator field. Without field flashing the generator voltage could not be established.

This event is not a violation of Technical Specifications but this report is submitted because the Action Statement of Tech. Specs. 3.8.1.1 was entered inadvertently.

II. CAUSE OF THE OCCURRENCE

The cause of this event was the failed mechanical latch in the K-1 relay. There was a high resistance in the coil latching circuit due to pitting on the relay contacts. This high resistance would not allow sufficient current through the coil to energize the unlatching mechanism.

III. CIRCUMSTANCES SURROUNDING THE OCCURRENCE

At the time of the occurrence, the Unit 2 facility was in a long-term cold shutdown state. The reactor decay heat was being removed via loss to ambient. Throughout the event there was no effect on the Reactor Coolant System or the core.

IV. CORRECTIVE ACTIONS TAKEN OR TO BE TAKEN

IMMEDIATE

The mechanical latching mechanism was replaced then the diesel generator was tested by performing surveillance procedure 4303-M16A - Diesel Generator Operability Test. The "A" Diesel Generator was returned to service at 2050 hours on April 22nd.

LONG TERM

Surveillance procedure 4603-R1 (Rev. 3 DTD 01/25/82) has incorporated steps to inspect and burnish the relay contacts on a regular basis. An investigation by Plant Engineering determined that the failed mechanical latch was not a generic defect.

V. COMPONENT FAILURE DATA

The relay was a mechanical latching type relay, Model No. G23L12D, manufactured by Gould Control and Systems Division.

LICENSEE EVENT REPORT

Attachment 1

CONTROL BLOCK: 118219941 (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 PATMT 2000-000000-000341111105

CON'T 01 REPORT SOURCE L6050000320704228180519839

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES

02 During a follow-up test on April 22, 1981, the "A" Emergency Diesel Generator was
03 started but failed to develop an output voltage. The problem was found to be a failed
04 latching mechanism in the K-1 relay. The failure prevented the voltage shutdown
05 system from being reset properly, thereby maintaining a short circuit across the gen-
06 erator field. The Diesel Generator was declared inoperable and the action statement
07 of Tech. Spec. 3.8.1.1 was entered inadvertently. There was no effect on the health
08 and safety of the public.

09 SYSTEM CODE EE11 CAUSE CODE E12 CAUSE SUBCODE A13 COMPONENT CODE RELAYX14 COMP. SUBCODE X15 VALVE SUBCODE Z16
17 LER/RO REPORT NUMBER 811 EVENT YEAR 81 SEQUENTIAL REPORT NO. 012 OCCURRENCE CODE 03 REPORT TYPE X18 REVISION NO. 1
ACTION TAKEN AZ19 EFFECT ON PLANT Z20 SHUTDOWN METHOD Z21 HOURS 000 ATTACHMENT SUBMITTED Y23 NPRD-4 FORM SUB. N24 PRIME COMP. SUPPLIER X25 COMPONENT MANUFACTURER I202

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS

10 The K-1 relay, a mechanical latching type relay manufactured by Gould Control and Sys-
11 tems Division, Cat. No. G 23L12D, failed due to corrosion and pitting of the relay
12 contacts. The relay was replaced and the diesel generator tested and declared oper-
13 able on April 22, 1981. Surveillance procedure 4603-R1 (Rev. 3) has incorporated
14 steps to inspect the relay contacts on a regular basis.

15 FACILITY STATUS X28 % POWER 00029 OTHER STATUS Recovery Mode30 METHOD OF DISCOVERY C31 DISCOVERY DESCRIPTION Follow-up test from previous failure32

16 RELEASED OF RELEASE Z33 Z34 AMOUNT OF ACTIVITY N/A35 LOCATION OF RELEASE N/A36

17 PERSONNEL EXPOSURES NUMBER 00037 TYPE Z38 DESCRIPTION N/A39

18 PERSONNEL INJURIES NUMBER 00040 DESCRIPTION N/A41 B305310066 B30519 PDR ADDCK 05000320 S PDR

19 LOSS OF OR DAMAGE TO FACILITY TYPE Z42 DESCRIPTION N/A43

20 PUBLICITY ISSUED N44 DESCRIPTION N/A45

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