

update on damaged lighting panel transformer

LICENSEE EVENT REPORT

CONTROL BLOCK: 19154117 (1)

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

NOV 16 1984

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01 | REPORT SOURCE | L | 6 | 0 | 5 | 0 | 0 | 0 | 3 | 2 | 0 | 7 | 0 | 8 | 2 | 2 | 8 | 3 | 8 | 1 | 0 | 1 | 2 | 8 | 4 | 9

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 | At approximately 1505 hours on August 22, 1983, a concrete block was accidentally
03 | dropped on the transformer for Lighting Panel LPF-4E. The feed breaker for Panel
04 | LPF-4E did not trip before the feed breaker for Panel PDP-2B tripped. This
05 | resulted in a loss of power to SPC-V-71 and placed the unit in Tech Spec Action
06 | Statement 3.1.1.1(b). This event is reportable pursuant to Tech Spec 6.9.1.9(b).
07 | This event had no effect on plant conditions since SPC-V-71 was closed *at the time*.

08 |
09 | SYSTEM CODE: C J (11) CAUSE CODE: E (12) CAUSE SUBCODE: X (13) COMPONENT CODE: C K T B R K (14) COMP. SUBCODE: A (15) VALVE SUBCODE: Z (16)

17 | LER/RO REPORT NUMBER: 83 | EVENT YEAR: 83 | SEQUENTIAL REPORT NO.: 044 | OCCURRENCE CODE: 03 | REPORT TYPE: X | REVISION NO.: 1
18 | ACTION TAKEN: B (18) FUTURE ACTION: A (19) EFFECT ON PLANT: Z (20) SHUTDOWN METHOD: Z (21) HOURS: 0000 | ATTACHMENT SUBMITTED: Y (23) NPD-4 FORM SUB.: N (24) PRIME COMP. SUPPLIER: A (25) COMPONENT MANUFACTURER: W120 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 | Investigation determined the transformer's core had been rubbing its case degrading
11 | its insulation. The block striking the case resulted in shorting the core to the
12 | case. Actions included isolating the shorted transformer and restoring power to
13 | SPC-V-71. The breaker for LPF-4E was tested with satisfactory results. The
14 | transformer was replaced on September 9, 1983.

15 | FACILITY STATUS: X (28) % POWER: 000 (29) OTHER STATUS: Recovery Mode (30) METHOD OF DISCOVERY: A (31) DISCOVERY DESCRIPTION: Operator observation (32)

16 | ACTIVITY CONTENT: Z (33) RELEASED OF RELEASE: Z (34) AMOUNT OF ACTIVITY: N/A (35) LOCATION OF RELEASE: N/A (36)

17 | PERSONNEL EXPOSURES: NUMBER: 000 (37) TYPE: Z (38) DESCRIPTION: N/A (39)

18 | PERSONNEL INJURIES: NUMBER: 000 (40) DESCRIPTION: N/A (41)

19 | LOSS OF OR DAMAGE TO FACILITY: TYPE: Z (42) DESCRIPTION: N/A (43)

20 | PUBLICITY ISSUED: N (44) DESCRIPTION: N/A (45)

NAME OF PREPARER: Russ Wells

PHONE: (717) 948-8461

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NRC USE ONLY

LER 83-044/03X-1
EVENT DATE - August 22, 1983

I. EXPLANATION OF THE OCCURRENCE

At approximately 1505 hours on August 22, 1983, a concrete block was accidentally dropped on the transformer for lighting panel LPF-4E. The feed breaker for panel LPF-4E did not clear the fault (trip) before the feed breaker for panel PDP-2B tripped. PDP-2B, a power distribution panel supplies LPF-4E and four other panels. This resulted in a loss of power to SPC-V-71 and placed the unit into the Action Statement of Technical Specification 3.1.1.1.b. The feed breaker to the failed transformer was opened and the feed to PDP-2B was reclosed thereby isolating the fault, re-energizing SPC-V-71, and stopping the 72 hour timeclock at 1540 hours on August 22, 1983.

II. CAUSE OF THE OCCURRENCE

The concrete block, a part of the shielding for the Submerged Demineralizer System tank farm, was being removed. A construction worker picked up a block from the end of a roller conveyor and accidentally dropped it on the transformer. The transformer core failed by shorting to its case. (Note: During repair it was found that the transformer core had been rubbing its case. This degraded the coil's insulation which significantly contributed to the transformer's short to the cause upon being struck by the concrete block.)

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. Since the Reactor Coolant System was in the level control mode, the Standby Pressure Control (SPC) System was isolated (by closed valve SPC-V-71) from the primary system. The temporary loss of electrical power to SPC-V-71 had no effect on its position or performance. Throughout the event there was no effect on the Reactor Coolant System or the core.

IV. CORRECTIVE ACTIONS TAKEN OR TO BE TAKEN

Immediate: Opened feed breaker to the damaged transformer and then re-energized the feed breaker to PDP-2B. This isolated the fault and restored power to SPC-V-71.

Long-Term: The feed breaker for the LPF-4E transformer was tested on August 31, 1983. The breaker tested satisfactorily.

The transformer was replaced and returned to service on September 9, 1983.

V. COMPONENT FAILURE DATA

Westinghouse 45KVA, 480-208/120 volt, 3 phase, ambient air cooled,
Style No. V48M28T45G transformer.



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4410-84-L-0045
Document ID 0017A

October 12, 1984

US Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

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 concerning this information, please contact Mr. J. J. Byrne of my staff.

Sincerely,

F. R. Standerfer
Vice President/Director, TMI-2

FRS/RDW/jep

Attachments

cc: Regional Administrator - Office of I & E, Dr. T. E. Murley
Program Director - TMI Program Office, Dr. B. J. Snyder
Deputy Program Director - TMI Program Office, Mr. L. H. Barrett

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