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NRC Form 308 (9-83)

U.S. NUCLEAR REGULATORY COMMISSION  
APPROVED OMB NO. 3150-0104  
EXPIRES: 8/31/85

LICENSEE EVENT REPORT (LER)

193675

B&W

FACILITY NAME (1) Three Mile Island Unit 2 DOCKET NUMBER (2) 050003201 PAGE (3) 1 OF 01

TITLE (4) Failure of Incore Thermocouple E-4

EVENT DATE (6) MONTH DAY YEAR 01 14 85 LER NUMBER (8) SEQUENTIAL NUMBER REVISION NUMBER 002 00 REPORT DATE (7) MONTH DAY YEAR 02 05 85 OTHER FACILITIES INVOLVED (8) FACILITY NAMES DOCKET NUMBER(S) 050000

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11) OPERATING MODE (9) N POWER LEVEL (10) 01010 20.406(b) 20.406(c) 80.73(a)(2)(iv) 73.71(b) 20.406(a)(1)(i) 80.38(e)(1) 80.73(a)(2)(v) 73.71(c) 20.406(a)(1)(ii) 80.38(e)(2) 80.73(a)(2)(vii) OTHER (Specify in Abstract below and in Text, NRC Form 368A) 20.406(a)(1)(iii) 80.73(a)(2)(i) 80.73(a)(2)(viii)(A) 20.406(a)(1)(iv) 80.73(a)(2)(ii) 80.73(a)(2)(viii)(B) 20.406(a)(1)(v) 80.73(a)(2)(iii) 80.73(a)(2)(ix)

LICENSEE CONTACT FOR THIS LER (12) NAME John C. Auger, TMI-2 Licensing Engineer TELEPHONE NUMBER 717 948 1182 44 AREA CODE

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRPDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRPDS
X	A C T E		B I 5 5	N					

SUPPLEMENTAL REPORT EXPECTED (14) YES (If yes, complete EXPECTED SUBMISSION DATE) NO X NO EXPECTED SUBMISSION DATE (15) MONTH DAY YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

6.27.85 Jawa

At 0100 hours on January 14, 1985, Incore Thermocouple (no IEEE Code) E-4 was declared inoperable due to erratic behavior. The thermocouple is being checked to ensure that the failure cause is not a component that is accessible for repairs. No further action is considered applicable. The precise reason(s) for the failure/erratic behavior of Incore Thermocouple E-4 is (are) not known and may not be possible to determine given the condition of the TMI-2 core relative to incore instrumentation.

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.

To date, fifteen (15) LER's have been submitted concerning thermocouple failures. Included with this submittal are LER's 80-13, 80-41, 80-50, 80-53, 81-05, 81-13, 82-15, 83-10, 83-27, 83-32, 83-50, 84-09, 84-16, and 84-21. Twenty-seven (27) of fifty-two (52) Incore Thermocouples are currently reported as out-of-service (B-7, D-14, E-4, E-11, F-3, F-8, F-12, G-5, G-11, H-5, H-9, H-13, K-11, K-12, L-6, L-11, L-13, M-3, M-7, M-9, N-4, N-8, N-9, O-5, O-6, O-10, and O-12).

The failed thermocouple was Type K (Chromium/Alumel), Model No. DAZA-76-7R-1B-1T-1C, manufactured by Bel Fab, Inc., and supplied by Babcock and Wilcox.

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**GPU Nuclear Corporation**

Post Office Box 480  
Route 441 South  
Middletown, Pennsylvania 17057-0191  
717 944-7621  
TELEX 84-2386  
Writer's Direct Dial Number:

(717) 948-8461

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February 5, 1985

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  
Licensee Event Report 85-002

Attached is Licensee Event Report 85-002 concerning the failure of Incore Thermocouple E-4 on January 14, 1985.

This event is considered reportable pursuant to Title 10 of the Code of Federal Regulations, Section 50.73(a)(2)(i)(B).

Sincerely,

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

FRS/JCA/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, Dr. W. D. Travers

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