

LICENSEE EVENT REPORT (LER)

BY W JAN 16 1985

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FACILITY NAME (1) Three Mile Island Unit 2		DOCKET NUMBER (2) 0 5 0 0 0 3 2 0	PAGE (3) 1 OF 0 1
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TITLE (4)  
Failure of Incore Thermocouples H-5, F-12, O-5, and G-11

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)											
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES											
1	0	2	9	8	4	8	4	0	0	2	1	0	0	1	12	7	8	4		

OPERATING MODE (9) N	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)																			
POWER LEVEL (10) 0, 0, 0	20.402(b)	20.406(a)(1)(ii)	20.406(a)(1)(iii)	20.406(a)(1)(iv)	20.406(a)(1)(v)	20.406(c)	50.36(c)(1)	50.36(c)(2)	50.73(a)(2)(i)	50.73(a)(2)(ii)	50.73(a)(2)(iii)	50.73(a)(2)(iv)	50.73(a)(2)(v)	50.73(a)(2)(vii)	50.73(a)(2)(viii)(A)	50.73(a)(2)(viii)(B)	50.73(a)(2)(ix)	73.71(b)	73.71(c)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)

LICENSEE CONTACT FOR THIS LER (12)		TELEPHONE NUMBER
NAME John C. Auger, TMI-2 Licensing Engineer	AREA CODE 71117	7914181-1812144

CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPRDS	
X	A	C	T	E	I	B	1	5	5	N
X	A	C	T	E	I	B	1	5	5	N

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

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

At 0315 hours on October 29, 1984, Incore Thermocouple (no IEEE Code) H-5 was declared inoperable due to a loss of signal to the instrument readout. Subsequently, Incore Thermocouples F-12, O-5, and G-11 were declared inoperable at 1000 hours on November 16, 1984, 0530 hours on November 17, 1984, and 0915 hours on November 18, 1984, respectively, due to erratic behavior. The thermocouples are 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 Thermocouples H-5, F-12, O-5, and G-11 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, fourteen (14) 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, 83-50, 84-09, and 84-16. Twenty-six (26) of fifty-two (52) Incore Thermocouples are currently reported as out-of-service (B-7, D-14, 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 thermocouples were 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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November 27, 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  
Licensee Event Report 84-021

Attached is Licensee Event Report 84-021 concerning the failure of Incore Thermocouple H-5 on October 29, 1984, and three (3) Incore Thermocouples (F-12, O-5, and G-11) during the period November 16-18, 1984.

These events are 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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