

JUN 02 1983

B&W



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April 20, 1983
4410-83-L-0083

Office of Inspection and Enforcement
Attn: Mr. J. M. Allen
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
Licensee Event Report 83-010/01L-0

Attached please find Licensee Event Report 83-010/01L-0 concerning the failure of Incore Thermocouple H13 on March 22, 1983.

This event is a violation of Section 3.3.3.6, Table 3.3-10, Item 10 and is reportable under Section 6.9.1.8 of the Interim Recovery Technical Specifications.

Sincerely,

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

BKK/SDC/jep

Attachments

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

8305030527 830420
PDR ADDCK 05000320
S PDR

182780
Erratic behavior of Incore thermocouple
Attachment 1
4410-83-L-0083
CONTROL BLOCK: _____ (1)
(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 PATMI 2000-0000-0000 34 1111 4 5
7 8 9 14 15 25 26 30 57 CAT 58

CON'T
01 REPORT SOURCE L 60 0500 0320 07 032283 8 042083 9
7 8 60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)
02 Incore Thermocouple H-13 began to exhibit erratic behavior; therefore,
03 in accordance with Technical Specification 3.3.3.6, Table 3.3-10, Item
04 10, this report is submitted. LER's 80-13, 80-41, 80-50, 80-53, 81-05,
05 81-13, and 82-15 concern thermocouple failures also. This event had no
06 adverse effects on the plant, its operation, or the health and safety of
07 the public.

09 SYSTEM CODE [XX] 11 CAUSE CODE [E] 12 CAUSE SUBCODE [X] 13 COMPONENT CODE [INS TR U] 14 COMP SUBCODE [E] 15 VALVE SUBCODE [Z] 16
7 8 9 10 11 12 13 18 19 20
17 LER/RO REPORT NUMBER [83] 21 EVENT YEAR [83] 22 SEQUENTIAL REPORT NO. [010] 24 OCCURRENCE CODE [01] 28 REPORT TYPE [I] 30 REVISION NO. [0] 32
ACTION TAKEN [Z] 18 FUTURE ACTION [Z] 19 EFFECT ON PLANT [Z] 20 SHUTDOWN METHOD [Z] 21 HOURS [0000] 22 ATTACHMENT SUBMITTED [Y] 23 NRPD-4 FORM SUB. [N] 24 PRIME COMP. SUPPLIER [N] 25 COMPONENT MANUFACTURER [B155] 26
33 34 35 36 37 40 41 42 43 44 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)
10 The reason for the failure of Thermocouple H-13 is not known and may not be possible to
11 determine given the condition of the Unit 2 core relative to incore instrumentation.
12 To date, no adverse trend in the overall incore thermocouple system behavior has
13 become apparent. Therefore, no further action is considered applicable.

15 FACILITY STATUS [X] 28 % POWER [000] 29 OTHER STATUS [Recovery Mode] 30 METHOD OF DISCOVERY [B] 31 DISCOVERY DESCRIPTION [Operator review of data] 32
7 8 9 10 12 13 44 45 46 80
16 ACTIVITY CONTENT RELEASED OF RELEASE [Z] 33 [Z] 34 AMOUNT OF ACTIVITY [N/A] 35 LOCATION OF RELEASE [N/A] 36
7 8 9 10 11 44 45 80
17 PERSONNEL EXPOSURES NUMBER [000] 37 TYPE [Z] 38 DESCRIPTION [N/A] 39
7 8 9 11 12 13 80
18 PERSONNEL INJURIES NUMBER [000] 40 DESCRIPTION [N/A] 41
7 8 9 11 12 80
19 LOSS OF OR DAMAGE TO FACILITY TYPE [Z] 42 DESCRIPTION [N/A] 43 8305030535 830420 527
PDR ADDCK 05000320
S PDR
7 8 9 10 80
20 PUBLICITY ISSUED DESCRIPTION [N] 44 DESCRIPTION [N/A] 45 NRC USE ONLY
7 8 9 10 80

LER 83-010/01L-0
EVENT DATE - March 22, 1983

I. EXPLANATION OF OCCURRENCE

Incore Thermocouple H13 began to exhibit erratic behavior; therefore, in accordance with Technical Specification 3.3.3.6, Table 3.3-10, Item 10, this report is being submitted.

To date, eight (8) LER's, including this one, concern thermocouple failures. The others are LER 80-13, 80-41, 80-50, 80-53, 81-05, 81-13, and 82-15. This LER reports the first thermocouple failure since May 17, 1982.

There are now thirteen (13) of the fifty-two (52) incore thermocouples reported as being out-of-service (D-14, E-11, G-5, H-9, H-13, K-12, L-6, L-11, L-13, M-9, N-8, N-9, and O-12). However, five (5) of these thermocouples (including D-14, L-11, M-9, N-8, and N-9) presently appear to be functioning properly and are being used to help monitor incore condition as long as they are functioning correctly.

II. CAUSES OF THE OCCURRENCE

The precise reason for the failure/erratic behavior of Incore Thermocouple H-13 is not known and may not be possible to determine given the condition of the Unit 2 core relative to incore instrumentation.

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

Incore Thermocouple H-13 was checked to ensure that the problem is not in any component that is accessible for repairs.

To date, no adverse trend in the overall incore thermocouple failure rate has become apparent. Therefore, no further action is considered applicable.

V. COMPONENT FAILURE DATA

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