

UPDATE REPORT -- PREVIOUS REPORT DATE September 19, 1983

NRC FORM 368 (7-77)

Update on failed SPC surge tank level transmitter

U. S. NUCLEAR REGULATORY COMMISSION

363

LICENSEE EVENT REPORT

NOV 16 1984

BFW

CONTROL BLOCK: 1915141141

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 | P | A | T | M | I | 2 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 3 | 4 | 1 | 1 | 1 | 1 | 4 | 5

CON'T
01 | REPORT SOURCE | L | 6 | 0 | 5 | 0 | 0 | 0 | 3 | 2 | 0 | 7 | 0 | 8 | 1 | 8 | 8 | 3 | 8 | 1 | 0 | 1 | 2 | 8 | 4 | 9

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10

02 | While the Standby Pressure Control (SPC) was isolated from the Reactor Coolant
03 | System, SPC Surge Tank Level Transmitter SPC-LT-3A failed low. Without SPC-LT-3A,
04 | surveillance requirements of Tech Spec Section 4.1.1.1(i) cannot be performed. The
05 | tank level transmitter was temporarily repaired, returned to service, and the
06 | required surveillance resumed. No significant occurrence resulted from this
07 | event.

08 | _____

09 | SYSTEM CODE | C | J | 11 | CAUSE CODE | E | 12 | CAUSE SUBCODE | E | 13 | COMPONENT CODE | I | N | S | T | R | U | 14 | COMP. SUBCODE | T | 15 | VALVE SUBCODE | Z | 16

17 | LER/RO REPORT NUMBER | 8 | 3 | EVENT YEAR | 8 | 3 | SEQUENTIAL REPORT NO. | 0 | 4 | 0 | OCCURRENCE CODE | 0 | 3 | REPORT TYPE | X | REVISION NO. | 1 |
18 | ACTION TAKEN | B | 19 | FUTURE ACTION | A | 20 | EFFECT ON PLANT | Z | 21 | SHUTDOWN METHOD | Z | 22 | HOURS | 0 | 0 | 0 | 0 | ATTACHMENT SUBMITTED | Y | 23 | NPRO-4 FORM SUB | N | 24 | PRIME COMP. SUPPLIER | L | 25 | COMPONENT MANUFACTURER | F | 1 | 8 | 0 | 26

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27

10 | A loose resistor on the terminal block of SPC-LT-3A interrupted the current loop of
11 | the Level Transmitter causing level indication to fail low. The block was
12 | jumpered, restoring level indication without local indication. The resistor terminal
13 | block was replaced and Surveillance Procedure 4301-S1 was revised to allow use of a
14 | backup transmitter.

15 | FACILITY STATUS | X | 28 | POWER | 0 | 0 | 0 | 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 | 0 | 0 | 0 | 37 | TYPE | Z | 38 | DESCRIPTION | N/A | 39

18 | PERSONNEL INJURIES NUMBER | 0 | 0 | 0 | 40 | DESCRIPTION | N/A | 41

19 | LOSS OF OR DAMAGE TO FACILITY TYPE | Z | 42 | DESCRIPTION | N/A | 43 | PDR | 8410230137 841012 PDR ADDCK 05000320 S PDR

20 | PUBLICITY ISSUED DESCRIPTION | N | 44 | DESCRIPTION | N/A | 45

NAME OF PREPARER Russ Wells PHONE (717) 948-8461

10-21-85
Duke

Rev. 0
on file

LER 83-040/03X-1
EVENT DATE - August 18, 1983

I. EXPLANATION OF THE OCCURRENCE

On August 18, 1983, the Standby Pressure Control (SPC) System was isolated from the Reactor Coolant System (RCS) while the RCS level was lowered for recovery operations. On August 18, 1983, at 0755 hours, it was discovered that the SPC Surge Tank Level Instrumentation (SPC-LT-3A) failed low. Operation of SPC-LT-3A is required in order to perform the surveillances called for in Recovery Operations Plan Section 4.1.1.1(i)1. This placed the unit into the Action Statement of Technical Specification 3.1.1.1. Subsequently, the level instrumentation was repaired and returned to service at 1435 hours on August 19, 1983, the required surveillance was resumed, and the Action Statement to restore the system to operable status within 72 hours was satisfied. This condition is considered thirty (30) day reportable under Technical Specification 6.9.1.9(b).

This event had similar aspects to LER's 83-29, 83-02, 82-37, 82-34, 82-22, and 82-21.

II. CAUSE OF THE OCCURRENCE

Maintenance investigations discovered a loose resistor on the terminal block of the SPC-LT-3A terminal box.

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 terminal block containing the resistor was jumpered which returned the transmitter loop to operation without local level indication.

Long-Term: The terminal block containing the resistor was replaced on October 20, 1983. Surveillance Procedure 4301-S1, "Shift and Daily Checks", was revised on October 10, 1983, to permit the use of SPC-LT-3B for Surge Tank Level monitoring.

V. COMPONENT FAILURE DATA

The SPC Surge Tank Level Transmitter, SPC-LT-3A, is a Foxboro Model E 13DM Transmitter. This transmitter's terminal block containing the resistor is Part No. N0151KF.



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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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LER UPDATE PACKAGE

82-038/03L-1
83-007/03X-1
83-020/03X-1
83-021/03X-1
83-022/03X-1
83-023/01X-1
83-024/01X-1
83-025/03X-1
83-031/03X-1
83-036/03X-2
83-040/03X-1
83-042/01X-1
83-043/03X-1
83-044/03X-1
83-046/03X-1
83-050/01X-1
83-051/03X-1
83-052/03X-1
83-055/03X-1