

UPDATE REPORT -- PREVIOUS REPORT DATE September 30, 1983

Update on failed SPC surge tank level transmitter

363

NRC FORM 368 (7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

CONTROL BLOCK: 19154118 (1)

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

NOV 16 1984

B&W

01 PATMI 2000-000000-00034111145
7 8 9 14 15 25 26 30 57 CAT 58

CON'T
01 REPORT SOURCE L 05000320708318381012849
7 8 60 61 68 69 74 75 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 While the Standby Pressure Control System was isolated from the Reactor Coolant
03 System, SPC Surge Tank Level Transmitter SPC-LT-3A failed low on August 31 and
04 September 1, 1983. Without SPC-LT-3A surveillance requirements of Tech Spec Section
05 4.1.1.1(i) cannot be performed. The tank level transmitter was temporarily repaired,
06 returned to service, and the required surveillances resumed. No significant
07 occurrence resulted from this event.

09 SYSTEM CODE C J 11 CAUSE CODE E 12 CAUSE SUBCODE E 13 COMPONENT CODE I N S T R U I 14 COMP. SUBCODE T 15 VALVE SUBCODE Z 16
17 LER/RO REPORT NUMBER 833 EVENT YEAR 83 SEQUENTIAL REPORT NO. 046 OCCURRENCE CODE 03 REPORT TYPE X REVISION NO. 1
18 ACTION TAKEN F 19 FUTURE ACTION A 20 EFFECT ON PLANT Z 21 SHUTDOWN METHOD Z 22 HOURS 0000 ATTACHMENT SUBMITTED Y 23 NPD-4 FORM SUB. N 24 PRIME COMP. SUPPLIER L 25 COMPONENT MANUFACTURER F 1800 26

*See 10-01
revised*

*Rev. 0
on file*

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 On September 1, 1983, it was determined that the electrical connection assembly
11 between the level transmitter and the junction box/local indicator had a loose or
12 broken conductor. The connection assembly was jumpered. Surveillance Procedures
13 were revised to include alternate level transmitter SPC-LT-3B. SPC-LT-3A's
14 terminal block was replaced on October 20, 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 RELEASED Z 33 CONTENT 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

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NAME OF PREPARER Russ Wells

PHONE (717) 948-8461

NRC USE ONLY

LER 83-046/03X-1
EVENT DATE - August 31, 1983

I. EXPLANATION OF THE OCCURRENCE

On August 31, 1983, through September 1, 1983, the Standby Pressure Control System was isolated from the Reactor Coolant System (RCS) while the RCS level was lowered for recovery operations. On August 31, 1983, at 0040 hours, it was discovered that Standby Pressure Control (SPC) Surge Tank Level Instrumentation (SPC-LT-3A) had failed low, indicating zero level in SPC Surge Tank T-3. Redundant level transmitter, SPC-LT-3B indicated normal level in Surge Tank T-3. At 0045 hours, on August 31, 1983, level transmitter SPC-LT-3A resumed normal level readings.

On September 1, 1983, at 1800 hours, SPC level transmitter SPC-LT-3A again failed low. Level transmitter SPC-LT-3A was temporarily repaired and returned to service at 1930 hours on September 1, 1983. Operation of SPC-LT-3A is required in order to perform the surveillance called for in Recovery Operations Plan Section 4.1.1.1(i)1. Inoperability of SPC-LT-3A places the unit into the Action Statement of Technical Specification 3.1.1.1. This, then, is considered reportable under Technical Specification 6.9.1.9(b). No significant occurrence resulted from this event.

This event had similar aspects to LER's 83-40, 83-29, 83-02, 82-37, 82-34, 82-22, and 82-21. *not app. - no.*

II. CAUSE OF THE OCCURRENCE *no.*

Due to the short duration of instrument failure on August 31, 1983, no cause could be determined. On September 1, 1983, it was determined that the electrical connection assembly between the transmitter and the junction box/local indicator had a loose or broken conductor. The electrical connection assembly is a potted assembly. *no.*

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: On September 1, 1983, the electrical connection assembly was jumpered and the level transmitter was returned to service at 1930 hours.

Long-Term: Surveillance Procedure 4301-S1 (Shift and Daily Checks) was revised on October 10, 1983, to permit the use of the alternate transmitter, SPC-LT-3B in addition to SPC-LT-3A for Surge Tank Level surveillance.

On October 20, 1983, the SPC-LT-3A terminal block was replaced.

V. COMPONENT FAILURE DATA

The SPC Surge Tank Level Transmitter, SPC-LT-3A, is a Foxboro Model E 13DM Transmitter. This transmitter's electrical connector assembly is Part No. C0146WM.

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GPU Nuclear Corporation

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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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