

Low potential on station storage battery at Three Mile Island 2

OCT 13 1983 218

U.S. NUCLEAR REGULATORY COMMISSION Attachment 1 4410-83-L-0204

LICENSEE EVENT REPORT

Three Mile Island B&W (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

CONTROL BLOCK 185400 (1)

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

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

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 | At 0900 hours on August 4, the following event was determined to be reportable. At 03 | 1500 hours on August 3, during the performance of Technical Specification 04 | Surveillance 4301-W2 it was determined that the potential across Station Storage 05 | Battery 2-15B was below the minimum value of Tech Spec 3.8.2.3.a. At 1700 hours, the 06 | 2-hour timeclock associated with the Tech Spec Action Statement expired. The battery 07 | was recharged and returned to operable status at 1510 hours on August 10, 1983. The 08 | event had no effect on the health and safety of the public.

09 | SYSTEM CODE | EC | 11 | CAUSE CODE | X | 12 | CAUSE SUBCODE | X | 13 | COMPONENT CODE | B | A | T | T | R | Y | 14 | COMP. SUBCODE | Z | 15 | VALVE SUBCODE | Z | 16 | LER/RO REPORT NUMBER | 8 | 3 | 17 | EVENT YEAR | 8 | 3 | SEQUENTIAL REPORT NO. | 0 | 3 | 4 | OCCURRENCE CODE | 0 | 1 | REPORT TYPE | L | REVISION NO. | 0 | ACTION TAKEN | E | 18 | FUTURE ACTION | G | 19 | EFFECT ON PLANT | Z | 20 | SHUTDOWN METHOD | Z | 21 | HOURS | 0 | 0 | 0 | 0 | ATTACHMENT SUBMITTED | Y | 23 | NRPD-4 FORM SUB. | N | 24 | PRIME COMP. SUPPLIER | A | 25 | COMPONENT MANUFACTURER | E | 2 | 2 | 6 | 26

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 | This event was caused by incorrect voltage limit settings on the "A", "B", and "C" 11 | Full Capacity Chargers which allowed Battery 2-15B to drain below the allowable Tech 12 | Spec value. The cause of the incorrect settings could not be determined. Corrective 13 | actions include installing placards on the chargers and submitting a procedural 14 | change to the Surveillance Procedure (A301-W2).

15 | FACILITY STATUS | X | 28 | % POWER | 0 | 0 | 0 | 29 | OTHER STATUS | Recovery Mode | 30 | METHOD OF DISCOVERY | B | 31 | DISCOVERY DESCRIPTION | Surveillance Test | 32

16 | ACTIVITY CONTENT RELEASED OF RELEASE | Z | 33 | AMOUNT OF ACTIVITY | N/A | 35 | LOCATION OF RELEASE | N/A | 36

17 | PERSONNEL EXPOSURES NUMBER | 0 | 0 | 0 | TYPE | Z | 37 | DESCRIPTION | N/A | 39

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

19 | LOSS OF OR DAMAGE TO FACILITY TYPE | Z | 42 | DESCRIPTION | N/A | 43

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

8309190295 830902 PDR ADDCK 05000320 S PDR

NRC USE ONLY

NAME OF PREPARER Russ Wells

PHONE (717) 948-8461

11-8-83

TEB

LER 83-034/01L-0
EVENT DATE - August 4, 1983

I. EXPLANATION OF THE OCCURRENCE

At 0900 hours on August 4, 1983, the following condition was determined to be reportable. At 1500 hours on August 3, 1983, during the performance of Technical Specification Surveillance Test No. 4301-W2, "Station Storage Batteries Weekly Check", it was determined by the Electrical Maintenance Foreman that the potential (voltage) across Station Storage Battery 2-15B was below the minimum allowable value of Tech Spec 3.8.2.3.a. The voltage across 2-15B was 248.9 volts; minimum allowable Tech Spec value is 250 volts. This placed the unit into the Action Statement of Tech Spec 3.8.2.3 which commenced a two hour timeclock associated with the Action Statement. An attempt was made to equalize Station Storage Battery 2-15B with the "A" Full Capacity Charger. This attempt was unsuccessful. Thus, the "B" and "C" Full Capacity Chargers were placed on the Station Storage Battery for a planned 72 hour recharging period. (Note: The "D" Full Capacity Charger was out-of-service due to a blown fuse.) Due to a miscommunication, the Unit 2 Control Room was not made fully aware of the above event. Subsequently, at 1700 hours on August 3, 1983, the two hour timeclock was exceeded, thus resulting in the above event becoming prompt reportable pursuant to Tech Spec 6.9.1.8(b).

On August 6, 1983, Station Storage Battery 2-15B was taken off the "B" and "C" Full Capacity Chargers in order to test the battery's voltage. The voltage again tested low. Upon inspection, it was discovered that the voltage set points on the "A", "B", and "C" Full Capacity Chargers had been adjusted which resulted in Station Storage Battery 2-15B draining below the Tech Spec minimum allowable value.* The voltage set points were reset and Storage Battery 2-15B was placed on an equalizer charge for 72 hours. At 1510 hours on August 10, 1983, Station Storage Battery 2-15B was verified to have a potential above the minimum allowable Tech Spec value; thus, 2-15B was returned to operable status.

* (The setpoints for the "D" Full Capacity Charger had been adjusted earlier during troubleshooting of the units.)

II. CAUSE OF THE OCCURRENCE

This event was caused by incorrect voltage limit settings on the "A", "B", and "C" Full Capacity Chargers which allowed Station Storage Battery 2-15B to drain below the minimum allowable Tech Spec value. It could not be determined why the voltage limit settings on the chargers were below the Tech Spec minimum allowable value.

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

1. The voltage setpoints were reset and Station Storage Battery 2-15B was recharged. At 1510 hours on August 10, 1983, Station Storage Battery 2-15B was returned to operable status.
2. Unit 2 Maintenance Foremen have been counseled to immediately inform Control Room personnel anytime a deficiency is observed during the performance of a surveillance procedure.

Long-Term

Placards will be posted on the Full Capacity Chargers of Station Batteries 2-15B and 2-25B advising personnel not to adjust the float and equalize voltage without obtaining prior approval from the Maintenance Department. Additionally, a PCR will be drafted within thirty days of the day of this LER to Surveillance Procedure 4301-W2 to reflect the long-term corrective action stated above. This LER will be updated upon completion of the long-term corrective actions.

V. COMPONENT FAILURE DATA

Full Capacity Chargers - ELTRA Corporation

OCT 13 1983

B & W



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

September 2, 1983
4410-83-L-0204

Office of Inspection and Enforcement
Attn: Dr. Thomas E. Murley
Regional Administrator
US Nuclear Regulatory Commission
Region I
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 83-034/01L-0

Attached please find Licensee Event Report 83-034/01L-0 concerning the low potential on Station Storage Battery 2-15B on August 4, 1983.

This event constitutes a violation of Section 3.8.2.3 and is considered reportable under Section 6.9.1.8(b) of the Interim Recovery Technical Specifications.

Sincerely,

A handwritten signature in cursive script that reads "B. K. Kanga".

B. K. Kanga
Director, TMI-2

BKK/RDW/jep

Attachments

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

TEP
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