

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)
Brunswick Steam Electric Plant Unit 1DOCKET NUMBER (2)
0 5 0 0 0 3 2 5 1 OF 0 2

PAGE (3)

TITLE (4)

Failure To Meet Technical Specification Surveillance Requirement 4.8.2.3.2.b.1

| 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 | | DOCKET NUMBER(S) | | | | | | | |
| 0 | 7 | 2 | 5 | 8 | 5 | 0 | 4 | 2 | 0 | 0 | 0 | 8 | 2 | 3 | 8 | 5 | Brunswick Unit 2 | 0 5 0 0 0 3 2 4 |
| | | | | | | | | | | | | 0 | 5 | 0 | 0 | 0 | | 0 5 0 0 0 |

| OPERATING MODE (9) | | THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8: (Check one or more of the following) (11) | | | | | | | | | |
|--------------------|-------|--|---|------------------|--|---------------------|--|--|--|--|--|
| POWER LEVEL (10) | 0 0 0 | 20.402(b) | | 20.405(c) | | 50.73(a)(2)(iv) | | 73.71(b) | | | |
| | | 20.405(a)(1)(i) | | 50.38(e)(1) | | 50.73(a)(2)(v) | | 73.71(c) | | | |
| | | 20.405(a)(1)(ii) | | 50.38(e)(2) | | 50.73(a)(2)(vi) | | OTHER (Specify in Abstract below and in Text, NRC Form 366A) | | | |
| | | 20.405(a)(1)(iii) | X | 50.73(a)(2)(i) | | 50.73(a)(2)(vii)(A) | | | | | |
| | | 20.405(a)(1)(iv) | | 50.73(a)(2)(ii) | | 50.73(a)(2)(vii)(B) | | | | | |
| | | 20.405(a)(1)(v) | | 50.73(a)(2)(iii) | | 50.73(a)(2)(ix) | | | | | |

LICENSEE CONTACT FOR THIS LER (12)

NAME
M. J. Pastva, Jr., Regulatory Technician

TELEPHONE NUMBER

AREA CODE

9 1 9 4 5 7 - 2 3 1 5

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

| CAUSE | SYSTEM | COMPONENT | MANUFACTURER | REPORTABLE TO NPRDS | CAUSE | SYSTEM | COMPONENT | MANUFACTURER | REPORTABLE TO NPRDS |
|-------|--------|-----------|--------------|---------------------|-------|--------|-----------|--------------|---------------------|
| | | | | | | | | | |
| | | | | | | | | | |
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SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) ☒ NO ☐

EXPECTED SUBMISSION DATE (15)

MONTH DAY YEAR

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

Technical Specification (T/S) 4.8.2.3.2.b.1 requires verification that voltages of individual plant 125-volt dc battery cells are ≥ 2.0 volts under float charge and have not decreased more than 0.3 volts from the value observed during the original acceptance test of the cells. It has been determined that the 0.3 volt decrease is not being adequately checked.

Periodic Test (PT) 17.3P provided for utilizing the original acceptance test voltage values of cells, obtained during preoperational testing. However, a procedural mechanism did not exist to update acceptance test values in the PT following replacement or relocation of cells. This event applies to Units 1 and 2 and was discovered on July 25, 1985, while performing a review of plant maintenance surveillance procedures. Unit 1 was in a refuel/maintenance outage and Unit 2 was at power.

The event is attributed to a misinterpretation of the testing requirement and inadequate technical review during original development of the PT.

Appropriate procedures are in effect which ensure 125-volt dc individual cell voltages are maintained ≥ 2.13 volts. These procedures were developed and implemented in accordance with a submittal of a proposed change to T/S 4.8.2.3.2.b.1, requiring a more conservative battery cell voltage of ≥ 2.13 volts.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

| FACILITY NAME (1) | DOCKET NUMBER (2) | LER NUMBER (6) | | | PAGE (3) | | |
|---------------------------------------|-------------------|----------------|-------------------|-----------------|----------|----|-----|
| | | YEAR | SEQUENTIAL NUMBER | REVISION NUMBER | | | |
| Brunswick Steam Electric Plant Unit 1 | 0 5 0 0 0 3 2 5 | 8 5 | — 0 4 2 | — 0 0 | 0 2 | OF | 0 2 |

TEXT (If more space is required, use additional NRC Form 366A's) (17)

During a review of plant maintenance procedures on July 25, 1985, a determination was made that the requirements of Technical Specification (T/S) 4.8.2.3.2.b.1 were not being met. T/S 4.8.2.3.2.b.1 requires verification that voltages of individual plant 125-volt dc battery cells are ≥ 2.0 under float charge and have not decreased more than 0.3 volts from the values observed during the original acceptance test of the cells. Periodic Test (PT) 17.3P, developed in part to meet T/S 4.8.2.3.2.b.1, provided for utilization of the cells original acceptance test voltages during preoperational testing. However, a procedural mechanism did not exist to update the subject acceptance test values in PT-17.3P following relocation or replacement of battery cells. As a result, some actual individual cell voltages were being compared to cell voltages of different cells (where cells had been relocated) and some actual individual cell voltages of new cells were being compared to the old cells' preoperational test data. This event applies to Units 1 and 2 and was discovered while Unit 1 was in a refuel/maintenance outage and Unit 2 was at power.

This event is attributable to a misinterpretation of the surveillance requirement and inadequate technical review during original development of PT-17.3P. Correspondence with the battery vendor indicates the intent of utilizing the original acceptance test values was to establish a baseline data point for each cell. Following relocation or replacement of battery cells, acceptance test voltages of the subject cells were to be determined approximately two weeks after the involved battery was placed on a float charge. Due to the misinterpretation of the surveillance requirement, a procedural trigger mechanism did not exist to ensure PT-17.3 was appropriately revised to reflect the updated cell acceptance voltages.

A submittal of a proposed change to T/S has been made to require a more conservative battery cell voltage of ≥ 2.13 volts. This proposed change also eliminates the requirement to verify a drop of less than 0.3 volts for each cell. Appropriate procedures are in effect which ensure the proposed ≥ 2.13 volts per cell is maintained. During a recent performance of PT-17.3P, individual cell voltages of greater than 2.13 were observed. The subject T/S change submittal and procedure development were made following a recommendation by plant Engineering, with concurrence by the battery vendor representative, that the proposed 2.13 volts per cell criteria is a more sound verification of battery cell operability.



Carolina Power & Light Company

Brunswick Steam Electric Plant
P. O. Box 10429
Southport, NC 28461-0429

August 23, 1985

FILE: B09-13510C
SERIAL: BSEP/85-1478

NRC Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555

BRUNSWICK STEAM ELECTRIC PLANT UNIT 1
DOCKET NO. 50-325
LICENSE NO. DPR-71
LICENSEE EVENT REPORT 1-85-042

Gentlemen:

In accordance with Title 10 to the Code of Federal Regulations, the enclosed Licensee Event Report is submitted. This report fulfills the requirement for a written report within thirty (30) days of a reportable occurrence and is in accordance with the format set forth in NUREG-1022, September 1983.

Very truly yours,

C. R. Dietz, General Manager
Brunswick Steam Electric Plant

MJP/jo

Enclosure

cc: Dr. J. N. Grace

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