

LICENSEE EVENT REPORT (LER)

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| FACILITY NAME (1) Brunswick Steam Electric Plant Unit 1 | DOCKET NUMBER (2) 0 5 0 0 0 3 2 5 1 | PAGE (3) OF 0 1 |
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TITLE (4) Automatic Isolation of the Units 1 and 2 Common Control Building Heating Ventilating Air Conditioning System Due to Spurious Chlorine Detection Alarm

| 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 | 1 | 1 | 8 | 5 | 0 | 0 | 2 | 0 | Brunswick Unit 2 | | 0 5 0 0 0 3 2 4 |
| 0 | 1 | 1 | 8 | 5 | 0 | 0 | 2 | 0 | | | 0 5 0 0 0 |

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|---------------------------|--|--------------------------|-------------------------------------|---------------------|--|--|--|--|--|--|
| OPERATING MODE (9) 1 | THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11) | | | | | | | | | |
| POWER LEVEL (10) 0 8 7 | 20.402(b) | 20.405(c) | <input checked="" type="checkbox"/> | 60.73(a)(2)(iv) | 73.71(b) | | | | | |
| | 20.405(a)(1)(i) | 60.38(c)(1) | <input type="checkbox"/> | 60.73(a)(2)(v) | 73.71(e) | | | | | |
| | 20.405(a)(1)(ii) | 60.38(c)(2) | <input type="checkbox"/> | 60.73(a)(2)(vi) | OTHER (Specify in Abstract below and in Text, NRC Form 36CA) | | | | | |
| | 20.405(a)(1)(iii) | 60.73(a)(2)(i) | <input type="checkbox"/> | 60.73(a)(2)(vii)(A) | | | | | | |
| | 20.405(a)(1)(iv) | 60.73(a)(2)(ii) | <input type="checkbox"/> | 60.73(a)(2)(vii)(B) | | | | | | |
| 20.405(a)(1)(v) | 60.73(a)(2)(iii) | <input type="checkbox"/> | 60.73(a)(2)(ix) | | | | | | | |

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|--|--|--------------------|-----------------|
| LICENSEE CONTACT FOR THIS LER (12) | | TELEPHONE NUMBER | |
| NAME M. J. Pastva, Jr., Regulatory Technician | | 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) | | | EXPECTED SUBMISSION DATE (15) | | MONTH | DAY | YEAR |
| <input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE) | | | <input checked="" type="checkbox"/> NO | | | | |

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (18)

On 01/11/85, at 2210, an automatic isolation of the Units 1 and 2 common Control Building Heating Ventilating Air Conditioning (CBHVAC) System occurred, per design, due to actuation of the system air intake plenum chlorine detector, 1X-AT-2977. The subject isolation was revealed through appropriate Control Room alarm annunciations. An inspection of the plant area determined that actual chlorine alarm conditions did not exist. During the event, the redundant detector, 2X-AT-2977, did not actuate. At the time, the chlorine supply was not present within the plant exclusion zone. Units 1 and 2 were operating at respective power levels of 87 and 90 percent before and after the event.

The event is attributed to increased sensitivity of the 1X detector due to a lack of electrolyte solution drip flow in the detector. The electrolyte drip flow problem resulted from a fungi growth within the detector. It is felt dust or other particulate foreign debris entered the detector sample chamber, and due to the increased detector sensitivity, a spurious actuation of the detector resulted. The detector was cleaned to remove the fungi accumulation, the drip rate reestablished, and the detector was returned to service.

The design problem affecting the subject detectors, which involves the referenced detector fungi growth, is addressed in LER 1-84-32. An evaluation concerning replacement of the subject detectors and modification of the CBHVAC isolation logic is in progress. As discussed in LER 1-84-33, additional plant surveillance requirements have been imposed to help ensure operability of the CBHVAC System.

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CP&L

Carolina Power & Light Company

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

February 8, 1985

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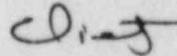
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BRUNSWICK STEAM ELECTRIC PLANT UNIT 1
DOCKET NO. 50-325
LICENSE NO. DPR-71
LICENSEE EVENT REPORT 1-85-006

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/smp/LETSMP

Enclosure

cc: Mr. R. C. DeYoung
Mr. J. P. O'Reilly

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