

## LICENSEE EVENT REPORT

Update Report:

Previous Report Date: 3-19-82

CONTROL BLOCK: 1 2 3 4 5 6

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 N C B E P 1 2 0 0 - 0 0 0 0 0 0 - 0 C 3 4 1 1 1 1 4 5  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

CON'T

0 1 REPORT SOURCE L 6 0 5 0 - 0 3 2 5 7 0 2 1 8 8 2 8 1 0 0 4 8 3 9  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

## EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 Following a reactor scram, the RCIC System turbine automatically started on reactor  
0 3 low level but immediately tripped on high turbine exhaust pressure. The RCIC turbine  
0 4 was then manually started and utilized with the HPCI System to restore and maintain  
0 5 normal reactor level. This event did not affect the health and safety of the public.  
0 6  
0 7

Technical Specifications 3.7.4, 6.9.1.9b

0 8  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

0 9 SYSTEM CODE C E 11 CAUSE CODE A 12 CAUSE SUBCODE C 13 COMPONENT CODE I N S T R U 14 COMP. SUBCODE C 15 VALVE SUBCODE Z 16  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

17 LER/RO REPORT NUMBER 8 2 EVENT YEAR 8 2 SEQUENTIAL REPORT NO. 0 2 5 OCCURRENCE CODE 0 3 REPORT TYPE L REVISION NO. 1  
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

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 NPRD-4 FORM SUB. Y 24 PRIME COMP. SUPPLIER N 25 COMPONENT MANUFACTURER X 9 9 9 9  
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

## CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 An out-of-tolerance turbine ramp signal converter, Model No. 8271-083, and improperly  
1 1 tuned turbine speed controller, FIC-600, Model No. 540, combined to cause an initial  
1 2 acceleration spike of the turbine during startup which then resulted in the exhaust  
1 3 pressure trip. The signal converter was recalibrated, the controller was properly  
1 4 tuned and the RCIC System was satisfactorily tested and returned to service.  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

1 5 FACILITY STATUS C 28 % POWER 0 0 0 29 OTHER STATUS NA 30 METHOD OF DISCOVERY A 31 DISCOVERY DESCRIPTION Operational Event 32  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

1 6 ACTIVITY CONTENT Z 33 RELEASED OF RELEASE Z 34 AMOUNT OF ACTIVITY NA 35 LOCATION OF RELEASE NA 36  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

1 7 PERSONNEL EXPOSURES NUMBER 0 0 0 37 TYPE Z 38 DESCRIPTION NA 39  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

1 8 PERSONNEL INJURIES NUMBER 0 0 0 40 DESCRIPTION NA 41  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

1 9 LOSS OF OR DAMAGE TO FACILITY TYPE Z 42 DESCRIPTION NA 43  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

2 0 PUBLICITY DESCRIPTION N 44  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

8310140053 831004  
PDR ADOCK 05000325  
S PDR

NRC USE ONLY

NAME OF PREPARER M. J. Pastva, Jr.

PHONE: 919-457-9521

LER ATTACHMENT - RO #1-82-25

Facility: BSEP Unit No. 1

Event Date: February 18, 1982

Following a reactor scram the RCIC System automatically started on low reactor level, but the RCIC turbine immediately tripped on high exhaust pressure. An investigation of the trip revealed the turbine speed controller, 2-E51-FIC-600, GEMAC Model No. 540, was slightly out of tune with the turbine ramp signal converter, Woodward Governoring Company, Model No. 8271-083. In addition, the signal converter was out of calibration.

Calibration procedure discrepancies resulting from inadequate technical review of the procedures, combined with instrument drift, are attributed as the contributing factors in the instrument problems. These instruments were calibrated and the RCIC System was satisfactorily tested and returned to service.

The calibration procedure for the GEMAC Model No. 540 made reference to decreasing the instrument proportional band and increasing the reset adjustments in order to facilitate a quicker instrument response for purposes of completing the calibration. As a result, readjustments of the instrument could not be adequately performed without running the RCIC turbine so that dynamic response characteristics of the instrument could be taken into account.

The subject procedure was revised on April 3, 1982, to delete the procedure references to making changes to the instrument settings. In addition, the revision includes a caution statement which emphasizes not to make any adjustments to the instrument's rate, reset, or proportional band adjustments. It stresses that these setting adjustments must be made while the RCIC System is operating so that optimum dynamic response of the instrument can be achieved.



Carolina Power & Light Company

83 OCT 11 P 1:50

Brunswick Steam Electric Plant

P. O. Box 10429

Southport, NC 28461-0429

October 4, 1983

FILE: B09-13510C

SERIAL: BSEP/83-3255

Mr. James P. O'Reilly, Administrator  
U. S. Nuclear Regulatory Commission  
Region II, Suite 3100  
101 Marietta Street N.W.  
Atlanta, GA 30303

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NO. 1  
DOCKET NO. 50-325  
LICENSE NO. DPR-71  
SUPPLEMENT TO LICENSEE EVENT REPORT 1-82-25

Dear Mr. O'Reilly:

In accordance with Section 6.9.1.9b of the Technical Specifications for Brunswick Steam Electric Plant, Unit No. 1, the enclosed supplemental Licensee Event Report is submitted. The original report fulfilled the requirement for a written report within thirty (30) days of a reportable occurrence and both are in accordance with the format set forth in NUREG-0161, July 1977.

Very truly yours,

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

RMP/ag/LETJ03

Enclosure

cc: Mr. R. C. DeYoung  
NRC Document Control Desk

OFFICIAL COPY

IE 22  
1/1