

CONTROL BLOCK: (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 SCNC S1 000 000 000 000 - 000 034 000 000 040 050  
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 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

CONT

01 REPORT SOURCE L 05000395 060783 070683 08070683 09  
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 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

## EVENT DESCRIPTION AND PROBABLE CONSEQUENCES

02 On June 7, 1983, with the plant in Mode 1, Smoke Detector IXA-4993G

03 failed to respond to a simulated alarm condition. Zone XX (Control

04 Building Elevation 463') was declared inoperable at 1430 hours and an

05 hourly fire watch was established. There were no adverse consequences.

06 The room containing the inoperable detectors is normally occupied and

07 there is a high degree of confidence that a fire in the area would have

08 been detected prior to the discovery of the failure.

09 SYSTEM CODE AB 11 CAUSE CODE E 12 CAUSE SUBCODE E 13 COMPONENT CODE INSTRU 14 COMP. SUBCODE E 15 VALVE SUBCODE Z 16

17 LER/NO REPORT NUMBER 83 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 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

18 ACTION TAKEN C 19 FUTURE ACTION Z 20 EFFECT ON PLANT Z 21 SHUTDOWN METHOD Z 22 HOURS 000 23 ATTACHMENT SUBMITTED Y 24 NFRD-4 FORM SUB. N 25 PRIME COMP. SUPPLIER A 26 COMPONENT MANUFACTURER 435

## CAUSE DESCRIPTION AND CORRECTIVE ACTIONS

10 The cause of the inoperable condition was due to a broken base

11 assembly on the smoke detector. The base assembly had an open circuit

12 which prevented an alarm condition. The component was replaced and the

13 zone returned to operable condition on June 10, 1983. No additional

14 action is planned.

15 FACILITY STATUS E 28 % POWER 075 29 OTHER STATUS N/A 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 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

NAME OF PREPARER C. J. McKinney

PHONE: (800) 345-5209

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PDR ADOCK 05000395  
S PDR

Mr. James P. O'Reilly  
LER No. 83-058  
Page Two  
July 6, 1983

#### EVENT DESCRIPTION AND PROBABLE CONSEQUENCES

On June 7, 1983, with the plant in Mode 1, Smoke Detector IXA-4993G failed to respond to a simulated alarm condition during the performance of surveillance testing. During additional attempts to initiate the alarm, the detectors became locked into a trouble condition and Zone XX (Control Building Elevation 463') was subsequently declared inoperable at 1430 hours. An hourly fire watch patrol was established within one (1) hour in accordance with Action Statement (a) of Technical Specification 3.3.3.7.

There were no adverse consequences resulting from this occurrence. The rooms containing the inoperable smoke detectors (reference Cause and Corrective Action) are adjacent to the Control Room and are normally occupied. Therefore, there is a high degree of confidence that a fire in the area would have been immediately detected and extinguished prior to the discovery of the zone's inoperable condition on June 7.

#### CAUSE AND CORRECTIVE ACTIONS

The investigation performed by maintenance personnel determined that Smoke Detector IXA-4993G was inoperable because of a broken base assembly. The base assembly had an open circuit which prevented an alarm condition from occurring on detectors IXA-4993G-L located in rooms 63-14, 15, 16, 17, 20 and 21. The exact time of failure cannot be established but apparently was between March 31 and June 7, 1983. The operability of the zone was verified on March 31, 1983, during routine surveillance testing.

The base assembly was replaced and Zone XX returned to operable status at 0850 hours on June 10, 1983, after the completion of a satisfactory surveillance test. The licensee plans no additional action in reference to this occurrence.

USNRC REGION I  
ATLANTA, GEORGIA  
SOUTH CAROLINA ELECTRIC & GAS COMPANY

POST OFFICE 764

COLUMBIA, SOUTH CAROLINA 29218

O. W. DIXON, JR.  
VICE PRESIDENT  
NUCLEAR OPERATIONS

83 JUL 8 49:53  
July 6, 1983

Mr. James P. O'Reilly  
Regional Administrator  
U.S. Nuclear Regulatory Commission  
Region II, Suite 2900  
101 Marietta Street, N.W.  
Atlanta, Georgia 30303

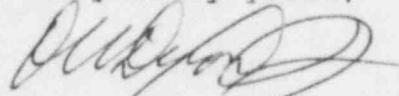
SUBJECT: Virgil C. Summer Nuclear Station  
Docket No. 50/395  
Operating License No. NPF-12  
Thirty Day Written Report  
LER 83-058

Dear Mr. O'Reilly:

Please find attached Licensee Event Report #83-058 for Virgil C. Summer Nuclear Station. This Thirty Day Report is required by Technical Specification 6.9.1.13.(b) as a result of entry into Action Statement (a) of Technical Specification 3.3.3.7, "Fire Protection Instrumentation," on June 7, 1983.

Should there be any questions, please call us at your convenience.

Very truly yours,



O. W. Dixon, Jr.

RJB:OWD/mac  
Attachment

cc: V. C. Summer  
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