

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

01 SIC VICS 1 00 - 00 00 00 - 00 4 1 0 0 0 5
7 8 9 LICENSE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 37 CAT 58

CON'T
01 REPORT SOURCE L 05 00 0 39 5 0 8 3 1 8 3 0 9 1 3 8 3 9
7 8 9 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 On August 31, 1983, with the Plant in Mode 1, Pressurizer Power Operated Relief
03 Valve (PORV) PCV-445A was declared inoperable when a concern was identified over
04 the possible inadvertent opening of the valve upon a loss of power to Protection
05 Cabinet IV. The present plant design, with a loss of power to the protection
06 cabinet, would arm and actuate the PORV by means of the Cold Overpressure
07 Protection System.

09 SYSTEM CODE CAUSE CODE CAUSE SUBCODE COMPONENT CODE COMP. SUBCODE VALVE SUBCODE
C J B A I N S T R U X Z
17 LER/RO REPORT NUMBER 83 100 01 T 0
18 ACTION TAKEN Z 19 FUTURE ACTION F 20 EFFECT ON PLANT Z 21 SHUTDOWN METHOD Z
22 HOURS 0000 23 ATTACHMENT SUBMITTED Y 24 NPRD-4 FORM SUB. N 25 PRIME COMP. SUPPLIER N
26 COMPONENT MANUFACTURER W 1 2 0

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 The cause is attributed to design error. The associated block valve for PORV
11 PCV-445A was closed and de-energized in accordance with Action Statement (a) of
12 Technical Specification 3.4.4 until the design error is corrected.

15 FACILITY STATUS E 28 % POWER 100 29 OTHER STATUS N/A 30 METHOD OF DISCOVERY A 31 DISCOVERY DESCRIPTION Engineering Evaluation

16 ACTIVITY CONTENT RELEASED OF RELEASE Z 33 Z 34 AMOUNT OF ACTIVITY N/A 35 LOCATION OF RELEASE N/A 36

17 PERSONNEL EXPOSURES NUMBER 000 37 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 DESCRIPTION N 44 14/15 45

NAME OF PREPARER

C. J. McKinney
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NRC USE ONLY

Mr. James P. O'Reilly
LER No. 83-100
Page Two
September 13, 1983

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES

South Carolina Electric and Gas Company (SCE&G) has identified a concern with the channel assignment of an input to the Cold Overpressure Protection System (COPS). The concern involves the possible inadvertent opening of a Pressurizer Power Operated Relief Valve (PORV) due to a single failure.

During installation of the Reactor Vessel Level Instrumentation System (RVLIS) at Virgil C. Summer Nuclear Station, the vendor found it necessary to move a wide range hot leg temperature loop (T-433) from Channel I Protection Cabinet to Channel IV Protection Cabinet. This temperature loop is used by RVLIS for density compensation and was moved to a channel of the same separation group as the RVLIS channel to resolve a channel separation/independence concern. This present design creates a situation where a loss of power to Channel IV Protection Cabinet will inadvertently open PORV PCV-445A via the COPS.

CAUSE AND CORRECTIVE ACTIONS

The cause is attributed to design error as described above.

SCE&G and the vendor are evaluating the condition and a final report will be submitted upon the completion of the analysis detailing additional corrective action and a projected completion date. The associated block valve for PORV-445A has been closed and de-energized in accordance with Action Statement (a) of Technical Specification 3.4.4 until the design error is corrected.

SOUTH CAROLINA ELECTRIC & GAS COMPANY

POST OFFICE 764

COLUMBIA, SOUTH CAROLINA 29218

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

83 SEP 19 P 1:13
September 13, 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
Fourteen Day Written Report
LER 83-100

Dear Mr. O'Reilly:

Please find attached Licensee Event Report #83-100 for Virgil C. Summer Nuclear Station. This Fourteen Day Report is required by Technical Specification 6.9.1.12.(i) as a result of entry into Action Statement (a) of Technical Specification 3.4.4, "Relief Valves," on August 31, 1983.

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

Very truly yours,



O. W. Dixon, Jr.

CJM:OWD/mac/fjc
Attachment

cc: V. C. Summer
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