SOUTH CAROLINA ELECTRIC & GAS COMPANY
POST OFFICE 764
COLUMBIA, SOUTH CAROLINA 29218

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

April 15, 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 83-027

Dear Mr. O'Reilly:

Please find attached Licensee Event Report #83-027 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 3.3.3.6, "Accident Monitoring Instrumentation," on March 18, 1983.

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

Very truly yours,

O. W. Dixon, Jr.

CJM:OWD/dwf
Attachment

cc: V. C. Summer
T. C. Nichols, Jr.,/O. W. Dixon, Jr.
E. C. Roberts
H. N. Cyrus
Group/General Managers
O. S. Bradham
R. B. Clary
C. A. Price
A. R. Koon
D. A. Lavigne
C. L. Ligon (NSRC)
G. J. Braddick
J. C. Miller
J. L. Skolds
J. B. Knotts, Jr.
I&E (Washington)
Document Management Branch
INPO Records Center
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EVENT DESCRIPTION AND PROBABLE CONSEQUENCES

At 1045 hours on March 18, 1983, with the Plant in Mode 3, the Main Control Board temperature indication (TE-413) for Reactor Coolant Outlet Temperature - T_{HOT} (Wide Range) began to exhibit erratic indications. At the time of this occurrence, the Plant was in cooldown for the upcoming modification to the Westinghouse D-3 Steam Generators. The temperature instrumentation channel is used for Post Accident Monitoring and is also one of three temperature inputs for Train "A" of the Cold Overpressure Protection System (COPS), which is activated when the Reactor Coolant System (RCS) temperature is less than or equal to 300°F.

The channel was declared inoperable at 1100 hours in accordance with Action Statement (a) of Technical Specification 3.3.3.6. The initial investigation performed by maintenance personnel determined that the erratic behavior was due to a failure of the temperature element. In order to prevent the erratic output of TE-413 from causing an inadvertent actuation signal from the COPS circuitry to Power Operated Relief Valve (PORV) PCV-445A, the channel was placed in the test position until repairs could be performed. The TE-413 input to the "Lo Select" auctioneered system temperature portion of the COPS circuitry was effectively failed high when the channel was placed in test. Therefore, the COPS circuitry remained operable and continued to perform the design function with the remaining two (2) operable temperature inputs to the "Lo Select" auctioneered system.

There were no adverse consequences in regards to this occurrence since the redundant Post Accident Monitoring instrumentation channel remained operable, and the Plant entered Mode 4 on the same day as the occurrence.

CAUSE AND CORRECTIVE ACTIONS

The cause of the erratic indications on the Main Control Board temperature indicator is attributed to a varying resistance between the compensated lead and low side resistance leg of TE-413 with static temperature conditions. The temperature element was replaced, and the channel returned to operable status at 1730 hours on March 26, 1983, upon the satisfactory completion of a channel calibration with the appropriate surveillance test procedure.

The licensee plans no additional action in regards to this event unless warranted by similar failures in the future.