

SOUTH CAROLINA ELECTRIC & GAS COMPANY

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COLUMBIA, SOUTH CAROLINA 29218

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

January 7, 1983

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

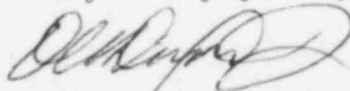
SUBJECT: Virgil C. Summer Nuclear Station  
Docket No. 50/395  
Operating License No. NPF-12  
Thirty Day Written Report  
LER 82-055

Dear Mr. O'Reilly:

Please find attached Licensee Event Report #82-055 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 (b) of Technical Specification 3.4.6.2, "Reactor Coolant System Operational Leakage," on December 8, 1982.

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

Very truly yours,



O. W. Dixon, Jr.

ARK:OWD:dwf  
Attachment

cc: V. C. Summer  
T. C. Nichols, Jr.  
G. H. Fischer  
O. W. Dixon, Jr.  
H. N. Cyrus  
H. T. Babb  
D. A. Nauman  
M. B. Whitaker, Jr.  
W. A. Williams, Jr.  
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#### DETAILED DESCRIPTION OF EVENT

At approximately 0445 hours on December 8, 1982, with the Plant in Mode 1, plant operators noticed frequent automatic makeup to the Volume Control Tank of Chemical Volume and Control System (CVCS). The Plant was stabilized in preparation for Surveillance Test Procedure (STP) 114.002, "Operational Leak Test". STP-114.002 was completed at 0635 hours, resulting in a calculated leak of 1.56 gpm. Technical Specification 3.4.6.2.(b) requires that RCS leakage be limited to one (1) gpm unidentified leakage.

#### PROBABLE CONSEQUENCES

The Plant routinely monitors the Reactor Coolant System (RCS) and subsystems for leakage. The Licensee considers this event to be an expected occurrence due to the high pressure at which the RCS and associated systems operate. Due to the low leak rate resulting from this event, there were no adverse consequences. The Technical Specification Action Statement was met.

#### CAUSE(S) OF THE OCCURRENCE

Seal Injection Filter Drain Valve (XVT-8386B) was leaking approximately 0.7 gpm due to valve seat/disk degradation.

#### IMMEDIATE CORRECTIVE ACTIONS TAKEN

Upon discovery of makeup to the RCS, the following actions were taken:

- a. The Plant was stabilized in order to perform the RCS leak rate test (STP-114.002).
- b. STP-114.002 was completed at 0635 hours, resulting in a calculated leak of 1.56 gpm. At this time the Technical Specification Action Statement (b) was entered.
- c. A Plant checkout was initiated to identify the leakage source.
- d. The previously acknowledged (but not quantified) leaking Seal Injection Filter Drain Valve (XVT-8386B) was torqued closed. This effort reduced the RCS leakage to within the Technical Specification limits.
- e. STP-114.002 was completed at 1010 hours with results of 0.95 gpm.

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ACTION TAKEN TO PREVENT RECURRENCE

As a temporary measure, a second isolation valve was installed in series in the seal injection filter "B" drain line. This reduced the leakage to nearly zero. Furthermore, an engineering effort was initiated to determine if the Seal Injection Filters' vents and drains require additional isolation valves or pipe caps.