

SOUTH CAROLINA ELECTRIC & GAS COMPANY

POST OFFICE 764

COLUMBIA, SOUTH CAROLINA 29218

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

AUG 7 9:17
August 2, 1984

Mr. James P. O'Reilly
Regional Administrator
U.S. Nuclear Regulatory Commission
Suite 2900
101 Marietta Street, NW
Atlanta, GA 30323

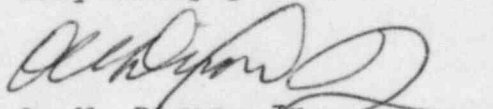
SUBJECT: Virgil C. Summer Nuclear Station
Docket No. 50/395
Operating License No. NPF-12
Special Report (SPR 84-011)

Dear Sir:

Please find attached a Special Report for The Virgil C. Summer Nuclear Station. This Report is being submitted pursuant to Regulatory Guide 1.108, "Periodic Testing of Diesel Generator Unit," Revision 1, August 1977, Section C.3.b.

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

Very truly yours,



O. W. Dixon, Jr.

RJB:OWD/lcd
Attachment

cc: V. C. Summer
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On July 3, 1984, during scheduled surveillance activity, and July 11, 1984, during post maintenance surveillance testing, the Licensee experienced invalid failures on Diesel Generator Unit "A", XEG-0001A. Both invalid failures were because of High Jacket Water Temperature resulting from the malfunctioning of the jacket water temperature control valve.

Following the unit shutdown on July 3, 1984, the jacket water cooling system was drained, the temperature control valve was disassembled, cleaned, and reassembled. The jacket water cooling system was filled and vented, the unit was satisfactorily tested and declared operable at 1240 hours, July 3, 1984, total time inoperable - 9 hours 33 minutes.

The Licensee voluntarily entered the Limiting Condition for Operation as noted in Action Statement(s) of Technical Specification 3.8.1, "A. C. Systems," at 0530 hours, July 11, 1984 for maintenance on Diesel Generator "A", (replacement of No. 1 injector nozzle). At approximately 1630 hours, the same date, the unit was started for post maintenance testing. The unit shutdown at approximately 1640 hours because of High Jacket Water Temperature. The jacket water cooling system was drained and flushed, the temperature control valve internals were replaced, the unit was tested and declared operable at 2315 hours, July 11, 1984, total time inoperable - 17 hours 45 minutes.

On June 14, 1984, the Licensee submitted Special Report 84-007 which identified a failure of the jacket water temperature control valve on June 1, 1984. It is suspected that the temperature excursion caused by fouling damaged the valve internals and contributed to the invalid failures described herein.

The Licensee has had zero valid failures on the subject unit, and the current surveillance test interval is every 31 days.

ENGINEERS
TECHNICAL WORK RECORD

Serial _____
Engineer WDS
Date 7/25/84

Project Title NRC Special Report 84-011 Tab 1 Page 1 of 1

subject Invalid D.C. Start
High Jacket Water Temp.

Verification of facts in letter

1) Any temperature excursion in excess of 185°F has been shown to damage the thermostatic control elements (power pills) in the Jacket Water Thermostatic Control Valve. (Ref NCR 555)

2) Test is considered invalid because during an emergency start only low lube oil pressure or engine overspeed will trip engine.

No comment or verification can be made on fuel oil related failure of Jacket Water Thermostatic Control Valve or cause of leaking injectors.

Wgn Street

| Verification | |
|----------------------|-------------------------|
| Type of Verification | Verifier Signature/Date |
| | |

| Approval |
|----------------|
| Signature/Date |
| |