SCE&G
A SCANA Company

South Carolina Electric & Gas Company
P.O. Box 88
Jenkinsville, SC 29065
(803) 345-4041

Dan A. Nauman
Vice President
Nuclear Operations

May 4, 1988

Document Control Desk
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

SUBJECT: Virgil C. Summer Nuclear Station
Docket No. 50/395
Operating License No. NPF-1
Implementation of ATWS Rule
(10CFR50.62), Supplemental
Information

Gentlemen:

As requested by your Staff during a conference call on April 20, 1988, the attached provides the supplemental information supporting the South Carolina Electric & Gas Company March 24, 1988 submittal for implementation of the ATWS rule.

Should you have any questions, please call at your convenience.

Very truly yours,

O S Bradham for

D. A. Nauman

MDB:DAN/lcd
Attachment

pc: J. G. Connelly, Jr./O. W. Dixon, Jr./T. C. Nichols, Jr.
E. C. Roberts
W. A. Williams, Jr.
J. N. Grace
J. J. Hayes, Jr.
General Managers
C. A. Price
R. B. Clary
W. R. Higgins
R. M. Campbell, Jr.
K. E. Nodland
J. C. Snelson
G. O. Percival
R. L. Prevatte
J. B. Knotts, Jr.
M. D. Blue
T. L. Wessner
NSRC
RTS (LTR000620)
NPCF
File (810.12)

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AMSAC SAFETY EVALUATION REPORT SUPPLEMENTAL RESPONSE

FOR VIRGIL C. SUMMER NUCLEAR STATION UNIT 1

On March 24, 1988, South Carolina Electric & Gas Company submitted a report to the Nuclear Regulatory Commission in response to the Safety Evaluation of the Westinghouse Owners Group Topical Report WCAP-10858, "AMSAC Generic Design Package," dated February 23, 1987.

On May 20, 1988, the NRC Staff requested supplemental information in clarification of the following items from the March 24, 1988 submittal.

Safety-Related Interface

The interface between AMSAC and the reactor protection system (RPS) is in accordance with the Virgil C. Summer Nuclear Station design basis as described in the Final Safety Evaluation Report (FSAR) Section 7.1 and fully complies with the requirements of IEEE Standard 279-1971, "Criteria for Protection Systems for Nuclear Power Generation Stations." The installation and interface of AMSAC will not affect the ability of the RPS to perform its design function as described in FSAR Section 7.0. In addition, all isolation devices utilized with AMSAC meet IEEE Standard 344-1975, "IEEE Standard for Seismic Qualification of Class 1E Electrical Equipment for Nuclear Power Generation Stations."

Testability at Power

The AMSAC actuation logic shall be tested at least every 62 days. Testing of the actuation logic verifies analog channel accuracy, setpoint accuracy, coincidence logic operation (operation and accuracy of all timers), and continuity through the output relay coils.

Every refueling outage through a series of surveillance tests, the system will be tested from end-to-end, that is, from the sensor through the final actuation devices. The sensors for steam generator narrow range level and turbine first stage pressure will be tested as a part of the normal reactor protection system testing. The AMSAC actuation logic will be tested using the surveillance test described above. Lastly, an additional surveillance test will test output relay actuation and equipment actuation.

Completion of Mitigative Action

Positive operator action must be taken to recover from the AMSAC actuation. The reset of the AMSAC signal will not result in any changes to equipment status or alignment.