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92 SEP 22 4 9: 00 PM
September 15, 1992

Mr. S. D. Ebner
Regional Administrator
U. S. Nuclear Regulatory Commission
Region II, Suite 2900
101 Marietta Street, NW
Atlanta, GA 30323

Dear Mr. Ebner:

Subject: VIRGIL C. SUMMER NUCLEAR STATION
DOCKET NO. 50/395
OPERATING LICENSE NO. NPF-12
RESPONSE TO NRC BULLETIN 92-01, SUPPLEMENT 1
SPECIAL REPORT 92-005, SUPPLEMENT 1 (ONO 920050)

South Carolina Electric & Gas Company submits the attached supplement report pursuant to NRC Bulletin 92-01, Supplement 1, Failure of Thermo-Lag 330 Fire Barrier System to Perform Its Specified Fire Endurance Function. This report satisfies the requirements of Technical Specifications 6.9.2 identifying fire barriers which are inoperable for greater than seven days.

Should you have any questions, call at your convenience.

Very truly yours,

John L. Skolds

RJB:lcd

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SOUTH CAROLINA ELECTRIC & GAS COMPANY
FIRE BARRIER REPORT PER NRC BULLETIN 92-01, SUPPLEMENT 1
AND TECHNICAL SPECIFICATION 6.9.2

Thermo-Lag 330 barrier material is used in five locations at Virgil C. Summer Nuclear Station. Each installation is designed to provide 1-hour fire barriers to meet the separation requirements of 10 CFR 50, Appendix R.

Thermo-Lag Panels are used to protect Cable Tray 3088. This cable tray is 18 inches wide and supplies various A-Train loads. Table B (attached) identifies the affected loads.

Thermo-Lag preshaped conduit sections are used to protect a 3 inch conduit which supplies DC power to the Main Control Board.

Thermo-Lag Panels and a steel frame is used to enclose two conduits which contained Nuclear Instrument signal cables. This installation is identified by Thermal Science, Inc., as a Self Supported Structure. Due to its size and similarities in construction, this barrier may be susceptible to the same type of failures as the large cable trays.

Thermo-Lag Panels and Flexi-Blanket are used to protect Unistrut and threaded rods which suspend a M-Board fire barrier over the "A" Service Water Booster Pump. This is an upgrade to a pre-existing fire barrier previously reviewed by the NRC.

Thermo-Lag preshaped conduit sections are used to protect 2 conduits which provide "A" Train power to the "C" chiller. This barrier is installed to maintain swing component capability. Initially, compensatory actions were established for this fire barrier. However, based on the definition "small diameter conduits" received from the NRC and NUMARC meeting of July 7, 1992, compensatory actions were suspended for this area. Compensatory actions were re-initiated upon receipt of Supplement 1 on August 31, 1992.

The location, type and purpose of all Thermo-Lag installations are identified on Table A (attached). Upon receipt of NRC Bulletin 92-01, a Non Conformance Notice (NCN) and Removal Restoration Sheet (R&R) were initiated to identify the condition of the Thermo-Lag fire barriers. A roving fire watch was established on June 25, 1992, to tour each room containing a Thermo-Lag fire barrier. Station procedures require an inspection of each room on an hourly basis, provided the fire detection capability exists. In the event of a loss of fire detection capability, a continuous fire watch will be established in each area.

South Carolina Electric & Gas Company has established compensatory actions as required by NRC Bulletin 92-01, Supplement 1. We will continue to work with Thermal Science, Inc., and the industry to develop a course of action to ensure the fire barriers are capable of performing their design function. This course of action may include one or more of the following:

1. Review available test documentation to reaffirm acceptability of existing fire barriers. This may require performance of site specific fire endurance tests.
2. Receive and review adequate test documentation to upgrade the present installations.
3. Replacement of Thermo-Lag fire barriers with a tested, approved fire barrier system.

TABLE A
 THERMO-LAG FIRE BARRIERS

FIRE BARRIER ID#	TYPE	SIZE	LOCATION	NRC BULLETIN APPLICABILITY	FUNCTION
24A-TW	SSS*	8 X 13"	CB 36-03	2	Separation of NI-31 and NI-32 signal cables from NI-33 power cable.
58-TW	Cable Tray	18"	IB 12-02S IB 36-02	1, 2	Protection of Cable Tray 3088, (see Table B for components supplied).
59-TW	Conduit	4"	IB 26-01	2	Protection of "C" Chiller, A-Train power supply.
74-TW	Conduit	3"	CB 12-04	1, 2	Protection of DC power to Main Control Board.
76-TW	Panels & Flexi Blanket	N/A	IB 12-02S	2	Protection of supports for M-Board fire barrier over "A" Service Water Booster Pump.

SSS*: Self Supported Structure made from prefabricated panels.

CB: Control Building

IB: Intermediate Building

1: NRC Bulletin 92-01

2: NRC Bulletin 92-01, Supplement 1

TABLE B
 Components Supplied Through Cable Tray 3088:

Equipment Number	Name	Safety Class
XFN0038A	Battery & Charging Room Air Handling Unit "A" Supply Fan	(NNS)
XFN0039A	Battery Room Exhaust Fan "A"	(NNS)
XES2001A	Speed Switch, Component Cooling Pump "A"	(SR)
XES2001C	Speed Switch, Component Cooling Pump "C"	(SR)
XPN7200A	Control Room Evacuation Panel	(SR)
XSW0001	Reactor Trip Switchgear	(SR)
XCA0001A	S.S. Power Cabinet 1A	(NNS)
XCX5201	Diesel Generator "A" Control Cubicle	(SR)
XPN5504	Diesel Generator "B" Relay & Terminal Panel	(SR)
XES0006	Diesel Generator "A" Starter DC Fuel Oil Pump	(SR)
XEX4201	Diesel Generator "A" Exciter Regulator Cubicle	(SR)
XPN5248	Relay & Isolation Fuse Panel	(SR)
XBC1A	DC Distribution Bus 1A Battery Charger	(SR)
XBC1A-1B	DC Distribution Bus 1A-1B Backup Battery Charger	(SR)
XPN5_59	Isolation Fuse Panel	(SR)
XSW1DA	7.2 KV Switchgear, Bus 1DA	(SR)
XSW1DA1	ESF 480 Volt Unit Substation, Bus 1DA1	(SR)
XSW1DA2	ESF 480 Volt Unit Substation, Bus 1DA2	(SR)
XPN7106	Reactor Protection Under Frequency & Under Voltage Panel 1	(SR)
XPN7106	Main Control Board Termination Cabinet	(SR)