

March 5, 1990

Docket No. 50-395

Mr. O. S. Bradham  
Vice President, Nuclear Operations  
South Carolina Electric & Gas Co.  
Virgil C. Summer Nuclear Station  
P.O. Box 88  
Jenkinsville, South Carolina 29065

Dear Mr. Bradham:

SUBJECT: REQUEST FOR PROPOSED ALTERNATIVE TO REQUIREMENTS OF ASME SECTION  
III FOR THE V. C. SUMMER NUCLEAR STATION, UNIT NO. 1 (TAC 75953)

By letter of February 1, 1990, you requested approval for the use of  
Babcock & Wilcox steam generator plugs manufactured with an alternative  
material at the V. C. Summer Nuclear Station, Unit No. 1, (Summer Station).  
The alternative material is a nickel base alloy, ASME designation SB-166,  
UNS N06690 (Alloy 690).

The staff has reviewed your request and supporting information and concludes  
that the use of Alloy 690 as a proposed alternative to the use of Alloy  
660, in accordance with the requirements of the ASME Boiler and Pressure  
Vessel Code, will provide an acceptable level of quality and safety because  
it has superior corrosion resistant properties. Use of Alloy 690 in this  
application is hereby authorized under the provisions of 10 CFR 50.55a(a)(3)  
at the Summer Station.

Sincerely,

Ronnie Lo/for

Elinor G. Adensam, Director  
Project Directorate II-1  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

cc: See next page

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Mr. O. S. Bradham  
South Carolina Electric & Gas Company

Virgil C. Summer Nuclear Station

cc:

Mr. R. V. Tanner  
Executive Vice President  
S.C. Public Service Authority  
P. O. Box 398)  
Moncks Corner, South Carolina 29461-0398

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Bishop, Cook, Purcell  
and Reynolds  
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Washington, D. C. 20005-3502

Resident Inspector/Summer NPS  
c/o U.S. Nuclear Regulatory Commission  
Route 1, Box 64  
Jenkinsville, South Carolina 29065

Regional Administrator, Region II  
U.S. Nuclear Regulatory Commission,  
101 Marietta Street, N.W., Suite 2900  
Atlanta, Georgia 30323

Chairman, Fairfield County Council  
P. O. Box 293  
Winnsboro, South Carolina 29180

Mr. Heyward G. Shealy, Chief  
Bureau of Radiological Health  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201

South Carolina Electric & Gas Company  
Mr. A. R. Koon, Jr., Manager  
Nuclear Licensing  
Virgil C. Summer Nuclear Station  
P. O. Box 88  
Jenkinsville, South Carolina 29065

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