



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

January 26, 1990

Docket No. 50-395

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

Dear Mr. Bradham:

SUBJECT: BULLETINS 79-02 AND 79-14 FOLLOW-UP INSPECTION REPORT 50-395/89-200

This letter transmits the results of the follow-up inspection conducted by the Office of Nuclear Reactor Regulation (NRR) to verify compliance with Inspection and Enforcement Bulletins (IEB) 79-02, "Pipe Support Baseplate Designs Using Expansion Anchor Bolts," and 79-14, "Seismic Analysis for As-Built Safety-Related Piping Systems." This inspection was conducted from November 27 through December 1, 1989 and December 11 through 15, 1989 by a team composed of NRR staff and consultants.

In reviewing South Carolina Electric and Gas (SCE&G) Company's effort regarding IEB 79-02, the team discovered that the computer program used to verify anchor bolt and baseplate sizing had not properly accounted for anchor bolt stiffness. Excluding this one issue, the inspection team was satisfied that the anchor bolts and baseplates had been properly designed and constructed. Thus, SCE&G had complied with the bulletin.

With respect to IEB 79-14, the inspection team was satisfied that the design drawings properly reflected the as-built configuration of the plant and that the piping analysis calculations were readily auditable. Thus, compliance to IEB 79-14 was demonstrated. However, the inspection team identified inconsistent modeling techniques used by different piping analysis contractors, unconservative piping analysis modeling practices, and unjustified engineering assumptions.

The deficiencies noted in Appendix A are considered to be the most significant issues identified during the inspection. Appendix B to the inspection report contains minor discrepancies that appeared to the inspection team to be isolated errors with minimal safety significance. The Appendix B discrepancies are listed for completeness and they are expected to be resolved by SCE&G without the need for NRC inspection.

9002060061 900126
PDR ADOCK 05000395
Q PDC

DF01
11

In Appendix C, four issues were identified by the team that require additional review by the NRC. The results of our review will be communicated to you when they are available.

SCE&G should individually track all items identified during the inspection such that their formal resolution can be verified at a later date.

Please inform us of the date by which actions related to the open items identified in this report will be available for follow-up inspection. Some of the identified items may be potential enforcement findings. Any enforcement actions will be identified by Region II in separate correspondence.

In accordance with 10 CFR 2.790(a), a copy of this letter and the enclosure will be placed in the NRC Public Document Room.

Should you have any questions concerning this inspection, please contact the NRR Project Manager, Mr. Jack Hayes or the inspection team leader, Mr. Ron Parkhill. Messrs. Hayes and Parkhill can be reached at (301) 492-1456 and (301) 492-0963, respectively.

Sincerely,

Original signed by

Steven A. Varga, Director
Division of Reactor Projects I/II
Office of Nuclear Reactor Regulation

Enclosure:
Inspection Report 50-395/89-200

*SEE PREVIOUS CONCURRENCE

RSIB:DRIS*	ESGB:DET*	EMEBDET*	SC:RSIB:DRIS*	C:RSIB:DRIS*	D:DRIS*
RWParkhill:bt	JSMa	AJLee	EVimbro	WDLanning	BKGrimes
01/24/90	01/26/90	01/23/90	01/24/90	01/24/90	01/24/90

D:DET*	PD21:DRP
JERichardson	SAVarga
01/26/90	01/26/90

cc w/enclosure:

Mr. William A. Williams, Jr.
Technical Assistant - Nuclear Operations
Santee Cooper
P.O. Box 764 (Mail Code 153)
Columbia, South Carolina 29218

J. B. Knotts, Jr., Esq.
Bishop, Cook, Purcell
and Reynolds
1400 L Street, N.W.
Washington, D.C. 20005-3502

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

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

Distribution:

Docket Files 50-395

RSIB R/F
DRIS R/F
TEMurley, NRR
JHSniezek, NRR
FJMiraglia, NRR
FJHebdon, NRR
BKGrimes, NRR
GCLainas, NRR
WDLanning, NRR
EVImbro, NRR
RWParkhill, NRR
RSIB Staff
SAVarga, NRR
JERichardson, NRR
JJHayes, NRR
EGAdensam, NRR
GBagchi, NRR
PTKuo, NRR
LBMarsh, NRR
JSMa, NRR
AJHLee, NRR
RLSpessard, AEOD
JJBlake, RII
FSCantrell, RII
RLPrevatte, SRI Summer
Regional Administrators
Regional Division Directors
Inspection Team
LPDR
PDR
ACRS (3)
OGC (3)
1S Distribution