

SOUTH CAROLINA ELECTRIC & GAS COMPANY

POST OFFICE BOX 764

COLUMBIA, S. C. 29218

May 25, 1982

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

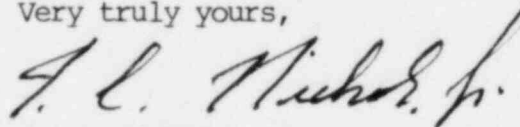
Subject: Virgil C. Summer Nuclear Station
Docket No. 50/395
Earthquake Instrumentation

Dear Mr. Denton:

In our May 3, 1982, letter South Carolina Electric and Gas Company described a change in location of the triaxial peak accelerograph located in the reactor building. A commitment was made to provide an FSAR revision to show the exact revised location. The attached marked up pages provide that information. They will be incorporated in the next FSAR amendment.

If you have any questions, please let us know.

Very truly yours,



T. C. Nichols, Jr.
Senior Vice President
Power Operations

RBC:TCN:lkb

Attachment

cc: V. C. Summer	(w/o attach.)
G. H. Fischer	(w/o attach.)
H. N. Cyrus	
T. C. Nichols, Jr.	(w/o attach.)
M. B. Whitaker, Jr.	
J. P. O'Reilly	
H. T. Babb	
D. A. Nauman	
C. L. Ligon (NSRC)	
W. A. Williams, Jr.	
R. B. Clary	
O. S. Bradham	
A. R. Koon	
M. N. Browne	
G. J. Braddick	
J. L. Skolds	
J. B. Knotts, Jr.	
B. A. Bursey	
NPCF	
File	

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The output of both triaxial sensor units (accelerometers) is recorded by a recording and playback system in the control building. A seismic trigger (see Figure 3.7-47) is provided at the reactor building foundation mat to start the recorder. An alarm is sounded when the recorder is started.

2. Triaxial Peak Accelerographs

One triaxial peak accelerograph is located at each of the following locations:

- 32 |
- a. On the top of the steam generator, as shown by Figure 3.7-49.
 - b. ON THE PRESSURIZER SURGE LINE,
~~At the bottom of the reactor vessel, on the tubing,~~ as shown by Figure 3.7-49.
 - c. On the residual heat removal system heat exchanger (see Figure 3.7-50).

3. Triaxial Response Spectrum Recorder

One triaxial response spectrum recorder, capable of permanently recording peak response as a function of frequency for both horizontal motions and vertical motion, is provided at each of the following locations:

- 4 |
- a. Reactor building foundation mat outside the reactor building (see Figure 3.7-47).
 - b. Steam generator support (see Figure 3.7-51).
 - c. On the intermediate building roof at elevation 463'-0" (see Figure 3.7-52).

TABLE 3.7-10 (Continued)

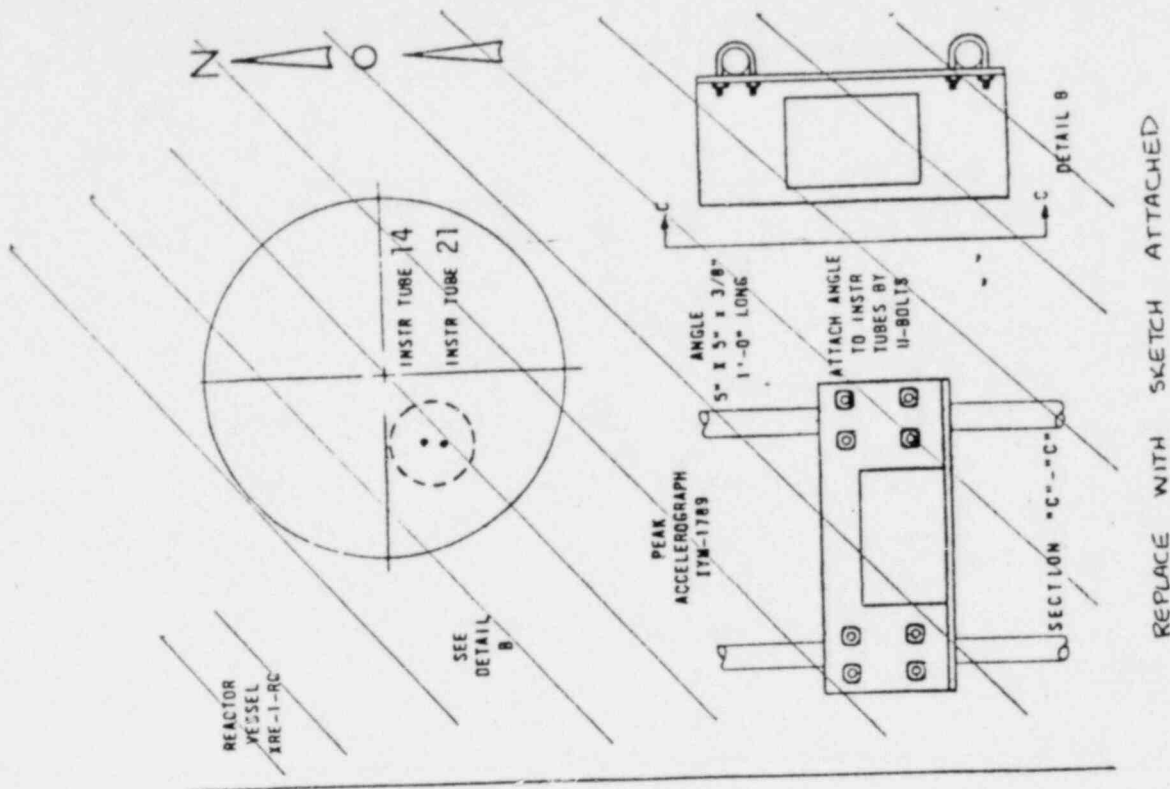
 AMENDMENT 432
 APRIL, 1978
 June, 1982

Ident. No.	Sensing Element Description	Location	FSAR Figure Reference	Mounting Type	Lowest Natural Frequency of Mounting (2)
IYM-1788	Peak accelerograph	Top of steam generator B, inside reactor building	3.7-49	Bolted to adapter bracket	166 Hz
IYM-1789	Peak accelerograph	PRESSURIZER SURGE LINE Bottom of reactor vessel, inside reactor building (4)	3.7-49	Bolted to adapter bracket	46.8 Hz 203 Hz
IYM-1790	Peak accelerograph	RHR heat exchanger, intermediate building	3.7-50	Bolted to adapter bracket	255 Hz
IYM-1785	Response spectrum recorder	Steam generator C, upper lateral support, inside reactor building	3.7-51	Bolted to adapter plate	30.9 Hz
IYM-1786	Response spectrum recorder	Intermediate building roof, elevation 463'	3.7-52	Bolted to concrete floor	(3)
IYM-1787	Response spectrum recorder	Auxiliary building foundation	3.7-53	Bolted to foundation	(3)

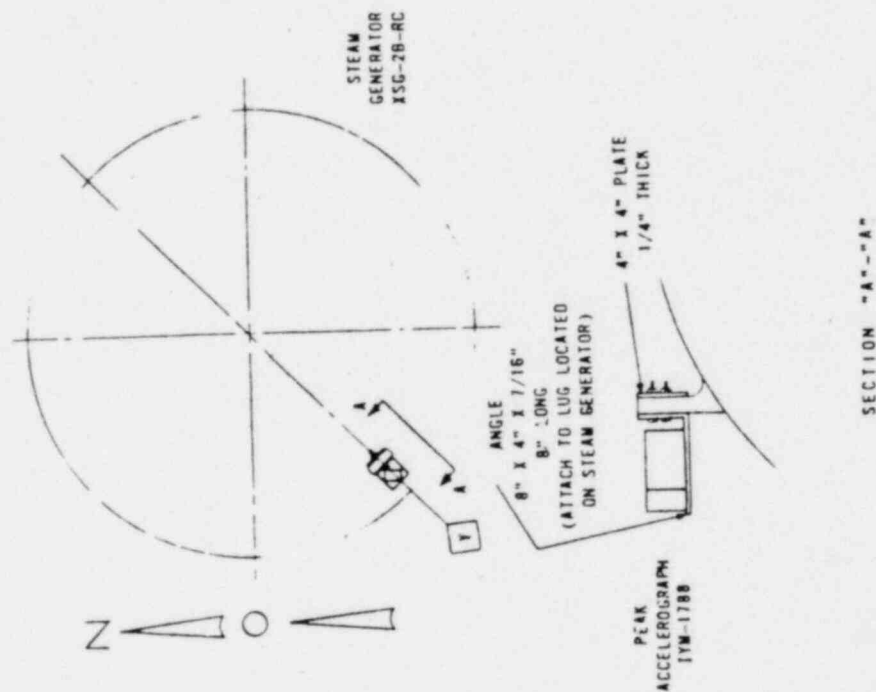
NOTES:

1. All listed sensing elements are triaxial sensors.
2. Lowest natural frequency, in three dimensions, of mounting bracket or plate.
3. This instrument does not use any bracket or plate as a mounting adaptor. The instrument is bolted rigidly to the concrete surface that it monitors. The instrument is free from spurious resonances within its frequency range.

4. This instrument is located at a nodal point in the piping stress analysis which has calculated thermal movements, accelerations and displacements



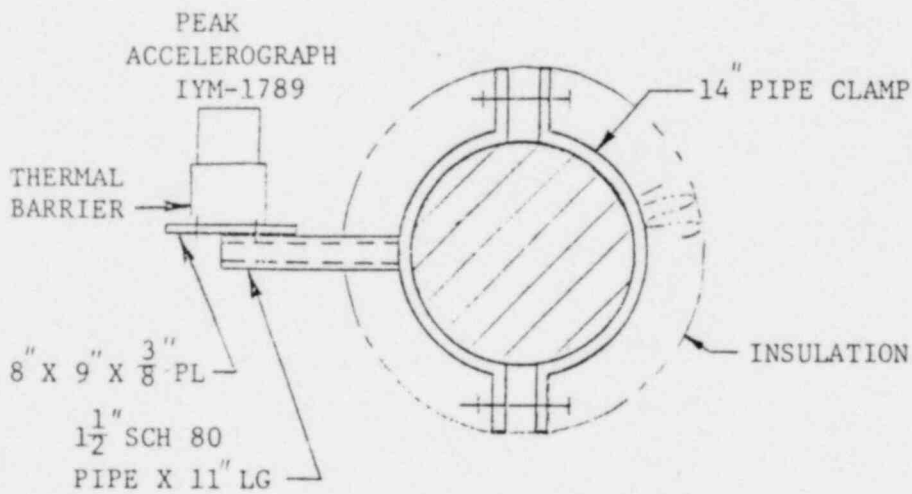
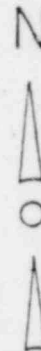
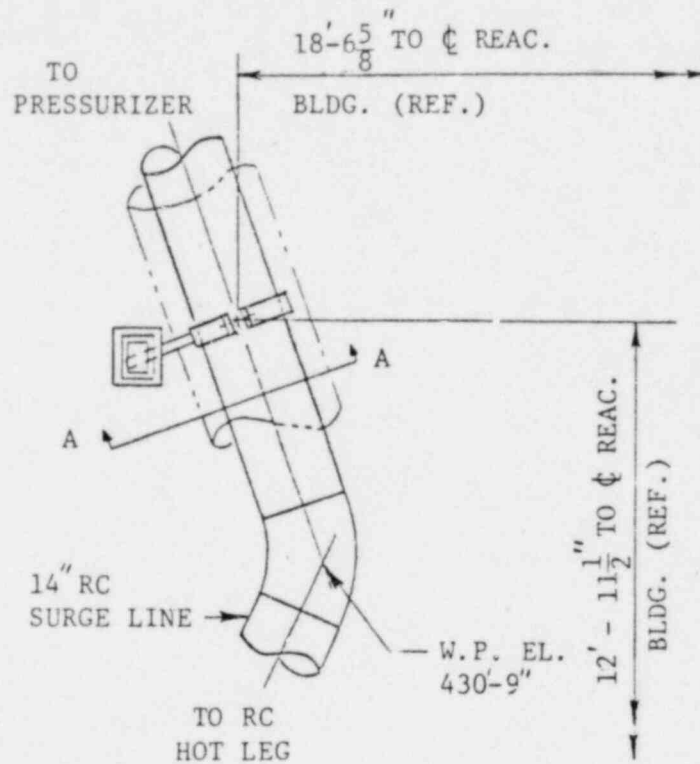
REPLACE WITH SKETCH ATTACHED



SOUTH CAROLINA ELECTRIC & GAS CO.
VIRGIL C. SUMMER NUCLEAR STATION

Seismic Instrumentation On
Top of Steam Generator And
~~Bottom of Reactor Vessel~~
PRESSURIZED SURGE LINE

Figure 3.7-49



SECTION A-A