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T. C. NICHOLS, JR.
VICE PRESIDENT AND GROUP EXECUTIVE
NUCLEAR OPERATIONS

January 13, 1982

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

Subject: V. C. Summer Nuclear Station
Docket No. 50/395
Diesel Generator Vibration
SER Licensing Condition 1.8.11

Dear Mr. Denton:

In a letter to you, dated December 10, 1980, South Carolina Electric and Gas Company (SCE&G) responded to a request by the Staff to provide additional information regarding the effect of diesel generator vibration on skid-mounted control panels. In summary, that response provided discussion and described verification programs which we believed should provide the Staff with adequate assurance that vibration loading is not a problem. However, to provide additional assurance, we committed to take vibration measurements on the control panels with the diesel running and provide you with the results.

With one of the diesel generators operating at 75% load, vibration measurements were taken at the skid-mounted control relay panel and engine gauge board, and also at the floor-mounted panel. Since both diesel generators are identical, this data is representative of both units.

The peak amplitudes of vibration measured at a device mounting locations on the control relay panel were .020 inches/second at 30 Hz and .024 inches/second at 230 Hz. The peak amplitude of vibration measured at a device mounting location on the engine gauge board was .021 inches/second at 10 and 20 Hz. For comparison, the peak amplitude of vibration measured at a typical device mounting location on the floor mounted panel was .023 inches/second at 26 and 30 Hz. We consider these vibration levels to be relatively low. Further, Colt Industries considers these vibration levels to be in a normal range and indicates that they should not degrade the equipment to unacceptable limits during the life of the plant based on experience with similar devices in similar applications.

In summary, SCE&G believes that this additional information confirms our original conclusion that field modifications to relocate these panels are not warranted.

If you require additional information, please let us know.

Very truly yours,

for T. C. Nichols, Jr.

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SC:TCN:tdh

cc: V. C. Summer
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