SOUTH CAROLINA ELECTRIC & GAS COMPANY
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O. W. DIXON, JR.
VICE PRESIDENT
NUCLEAR OPERATIONS

November 8, 1984

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
Operating License No. NPF-12
Licensing Condition 2.C.19
Diesel Generator Vibration

Dear Mr. Denton:

In a letter from O. W. Dixon, Jr. to H. R. Denton dated June 6, 1984, South Carolina Electric and Gas Company (SCE&G) outlined the modifications being made to the Emergency Diesel Engine Auxiliary Support System to meet Operating License Condition 2.C.19 for the Virgil C. Summer Nuclear Station. This letter is provided to clarify two (2) points in the June 6, 1984 letter concerning the components being relocated from the skid-mounted control panels and the location of one of the instrument stands.

The active components in the control relay panel located on the diesel skid have been relocated to a new wall-mounted control panel as outlined in our June 6, 1984 letter. These active components include all relays, fuses, speed switches, and heaters. The existing control panel has been left mounted on the diesel skid and contains only passive components such as terminal blocks and indicating lights. Therefore, this panel now serves only as a termination cabinet. The pressure switches originally located on an engine gauge board have been removed from the diesel skid-mounted location and installed on a floor-mounted instrument stand separate from the skid. In addition, the air-start and shutdown solenoids have been moved to a second floor mounted stand separate from the skid.

The connections from the floor stands to the diesel skid are made via flexible hoses and flexible conduits to reduce transfer of vibration (due to diesel vibration). The diesel generator skid is supported by its own foundation that transfers load directly from elevation 436 to elevation 427 (basement floor). This load bearing foundation directly below the skid consists of solid reinforced concrete which extends from the 436 elevation floor down to, and becomes a part of, the 427 elevation (basement floor). The basement floor itself rests on caissons embedded in bedrock. Thus the diesel skid vibration transfer is through the foundation below the skid to the caissons. The new instrument stands are located on elevation 436 floor adjacent to, but not a part of, the diesel generator skid.

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The equipment that is now being moved, but which previously was located on the diesel skid, has never experienced any adverse performance effects as a result of diesel vibration. However, by locating instrument stands off the skid and utilizing flexible connections to the stands, the potential for any equipment failure due to operational stress vibration is further reduced.

These modifications are currently being made during the present refueling outage. Upon completion of these modifications, SCE&G will consider that License Condition 2.C.19 for the Virgil C. Summer Nuclear Station has been satisfied.

If you have any questions, please advise.

Very truly yours,

O. W. Dixon, Jr.

AMM/OWD/gj

cc: V. C. Summer
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