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SOUTH CAROLINA ELECTRIC & GAS COMPANY

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M. C. JOHNSON

VICE PRESIDENT AND GROUP EXECUTIVE
SPECIAL DEALS, OCS AND PURCHASING

May 22, 1980

U. S. Nuclear Regulatory Commission
Attn: Mr. James P. O'Reilly
Director
Region II
151 Marietta Street, NW
Atlanta, Georgia 30303

Subject: V. C. Summer Nuclear Station
Unit #1
License CPRP-94, Reportable
Item in Accordance with 10CFR50.55(e),
Electrical Penetration Blinding Pins

Gentlemen:

On April 30, 1980, the Region II Resident Inspector, Jack Skolds, was notified of a reportable item regarding electrical penetrations with incorrect blinding pins installations in their plug assemblies. This item has recently been assigned NRC Report No. 50-395/80-14-02.

Nature of Condition

During an SCE&G program of verifying plug engagement in electrical penetrations utilizing radiography, it was determined that some plugs had incorrect blinding pin installations. In particular, some had wrong size blinding pins, some had no blinding pins, and some had male adapter pins installed where there should have been blinding pins. The condition resulted in a site Nonconformance Notice (NCN 1006E) which documented the conditions and provides a mechanism to disposition, and to track the corrective actions to completion of rework.

Cause

The cause of the condition was a combination of procedural and implementation omissions. Instructions for plug assembly provided by the vendor did not specifically address blinding pins as to when required, size required, etc. Vendor drawings did address blinding pins being required in sealed plugs by note, however. When procedures were prepared for assembly plugs, the instructions provided by the vendor were heavily utilized and drawings weren't given as high an emphasis. As a result, the assembly and inspection procedures did not

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specifically address blinding pins. To compound this error, inspection personnel never pursued the drawing note stating that blinding pins were to be installed, and never questioned the plug sealing aspects during inspection of the plug assembly process.

Safety Implications

The safety implications of the condition is that it could have resulted in a line to ground fault that could possibly damage the penetration and breach containment during the postulated LOCA.

Actions to Correct Conditions

NCN 1006E has been dispositioned to have plugs with blinding pins inspected, have the proper blinding pins installed, and have the reinstallation properly inspected. The NCN disposition contains detailed instructions as to the plugs involved and methods to install and inspect blinding pins.

Corrective Actions to Prevent Recurrence

Procedure changes dealing with blinding pins in electrical penetration plug assemblies have been made to provide specific verification and QC inspector sign off that installation is correct. These actions are believed to suffice in preventing recurrence of the specific condition with respect to electrical penetration plug assemblies, although no further work will be done in this area after the rework required by NCN 1006E. In addition, Electrical QC supervision recognizes the need to be more thorough in researching vendor requirements in areas new to SCE&G to provide adequate work instructions.

SCE&G believes actions outlined above will adequately resolve deficiencies in electrical penetration plug assemblies. Since all necessary actions have been identified and are in the process of being implemented and tracked via NCN 1006E, we consider this a final report on this subject. All actions taken regarding this item will be available at the construction site for NRC review. Should further information be required, please contact us.

Very truly yours,



D&M/MCJ/jls

cc: C. J. Fritz
C. C. Meese
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