Sandia Laboratories

Albuquerque, New Mexico 87115

FEB 3 1981

Mr. Ronald Feit Division of Reactor Safety Research Office of Nuclear Regulatory Research Mail Stop 1130SS U.S. Nuclear Regulatory Commission Washington, DC 20555

Dear Ron:

Enclosed is a final version of the "Connector Assembly Test Plan for the Duke Power, Catawba Units 1 and 2, Connectors."

This revision has been expanded to include a section on acceptance-rejection criteria and actions to be taken in the event of a failure.

The criteria are for series connected modules. As you recall the penetration to be supplied to Sandia will be wired, as per Duke Power instructions, with like pairs of modules wired in series. This wiring configuration prompted Duke Power to reevaluate the minimum acceptable resistance requirements for the penetration assembly test. The enclosed test plan acceptance-rejection criteria are based on the Duke Power insulation resistance requirements for series connected modules. The Duke Power document specifying the minimum acceptable insulation requirements for series connected modules has been included as an addendum to this report.

Finally, composition of the chemical spray, based on IEEE 323(1974) has been incorporated in the test plan accident sequence section.

Should you require clarification or need additional information, please call me.

Yours truly,

W. H. Buckalew System Safety Information Division 4445

WHB:4445:sb

Copy to: W. Rutherford, USNRC P. M. McBride, Duke Power Co. 4440 G. R. Otey 4445 L. O. Cropp, File 5.3 4445 L. L. Bonzon 4445 F. V. Thome 4445 W. H. Buckalew

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