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Dan A. Nauman  
Vice President  
Nuclear Operations

December 23, 1985

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

Subject: Virgil C. Summer Nuclear Station  
Docket No. 50/395  
Operating License No. NPF-12  
SPDS Digital Isolator

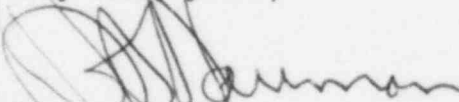
Dear Mr. Denton:

By a letter dated April 18, 1985 from Mr. O. W. Dixon, Jr., to Mr. H. R. Denton, South Carolina Electric and Gas Company (SCE&G) provided responses to NRC Staff questions on the Virgil C. Summer Nuclear Station Safety Parameter Display System (SPDS). As a result of further NRC review of that submittal, a question was raised about one of the qualification tests for the Rochester Instrument digital isolators. This letter is hereby provided in response to that NRC Staff concern.

Test number two described on page 3 of Attachment A to the April 18, 1985 letter was determined by the NRC Staff to be an inadequate test for isolation for the digital isolators being used at the Virgil C. Summer Nuclear Station. Therefore SCE&G requested further test data from the isolators' manufacturer. As a result, the data resulting from the test set-up shown in Attachment A to this letter was provided to SCE&G by the manufacturer. This data supports that, even in the event of the maximum postulated credible fault which these isolators would be exposed to at the Virgil C. Summer Nuclear Station, isolation is maintained between the non-1E and 1E outputs and inputs of the system as described in the April 18, 1985 letter.

If you have any further questions, please advise.

Very truly yours,



D. A. Nauman

AMM:DAN:tdh

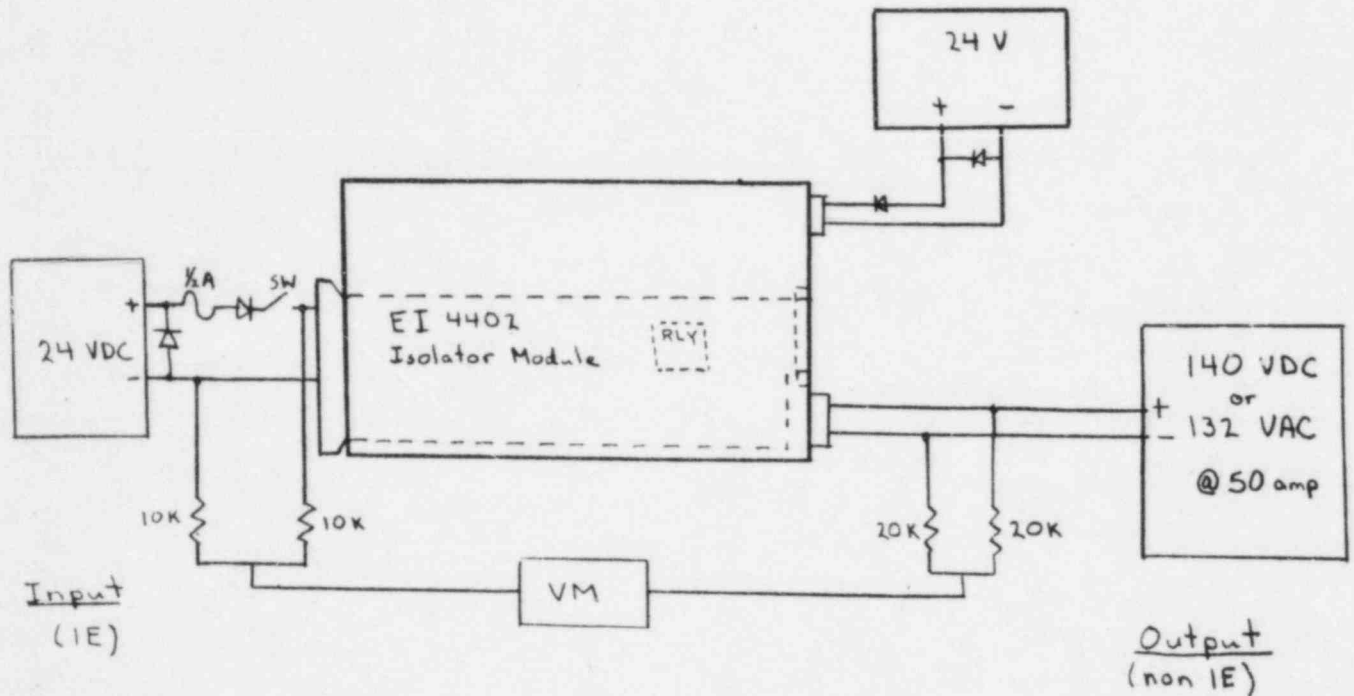
c: V. C. Summer  
O. W. Dixon, Jr./T. C. Nichols, Jr.  
E. H. Crews, Jr.  
W. A. Williams, Jr.  
J. N. Grace  
Group Managers  
O. S. Bradham  
C. A. Price  
C. L. Ligon (NSRC)

R. A. Stough  
G. Percival  
R. L. Prevatt  
J. B. Knotts, Jr.  
NPCF  
File

8512300179 851223  
PDR ADOCK 05000395  
F PDR

*A048*  
*1/10*  
*Add: Bailard (ES)*

# ATTACHMENT A



## Results:

140 VDC Tests - Relay contacts on non IE side of isolator module fused closed. Circuit traces opened. Isolation was maintained.

132 VAC Tests - Relay contacts remained undamaged. Circuit traces opened. Isolation was maintained.