

MAY 18 1976

50-269

Robert L. Tedesco, Assistant Director for Plant Systems, DSS

DR. HANAUER'S MEMO ON THE DUKE 6 PACK SER (ITEM 2)

1. Our SER Section 8.2.2 addresses, in part, the routing of cables to remote structures in a single trench. The applicant has proposed to use the separation criteria of Regulatory Guide 1.75 (as discussed in Section 8.4 of our SER) including a 3' horizontal separation between redundant division or suitable barriers. The applicant's discussion of fire protection and detection (Section 8.3.1.2.6.8 of the SAR) also proposed the use of fire stops and seals (of a fire rating equal to the wall or floor being penetrated) at fire barrier penetrations and stated that "All cables, except a few non-Class 1E instrumentation and control cables are of interlocked armor type, with a fire retardant jacket and will not propagate fire to another area, or add to severity of the fire."
2. Ordinarily, we would require the use of redundant cable trenches or tunnels. However, the applicant's past applications of armored cable (e.g., Oconee) has demonstrated that his cables can withstand exposure to severe fires and continue to function. It is on the basis of this experience and the criteria presented in paragraph 1 above that we have concluded that a safe design will be implemented.

Original Signed by
 T. A. Ippolito
 Thomas A. Ippolito, Chief
 Electrical, Instrumentation
 and Control Systems Branch
 Division of Systems Safety

cc: S. Hanauer
 J. Glynn
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