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JUL 07 1978

Docket Nos. 50-438
and 50-439

Tennessee Valley Authority
ATTN: Mr. N. B. Hughes
Manager of Power
830 Power Building
Chattanooga, Tennessee 37201

Gentlemen:

SUBJECT: FIRE PROTECTION EVALUATION - BELLEFONTE NUCLEAR PLANT
UNITS 1 AND 2

In a letter dated June 6, 1978, we stated that we would inform you late this year as to our review schedule for the Bellefonte application. We have however performed a preliminary review of the fire protection program (Section 9.5 of the Final Safety Analysis Report). Based on our cursory examination of the information we conclude that the fire hazards analysis as submitted is inadequate and does not respond to Enclosure 2 of our letter to you of September 30, 1976 (Mr. Roger S. Boyd to Mr. Godwin Williams, Jr.).

The analysis should be revised to include an evaluation of the consequences of a fire, including exposure fires, with respect to maintaining the capability for safe cold shutdown of the plant. You should complete a fire hazards analysis for each plant fire area. The effects of a postulated fire involving installed and/or transient combustibles on systems, equipment, and electrical circuits required for safe cold plant shutdown should be evaluated. The fire hazards analysis should demonstrate that, assuming failure of the primary suppression system, a fire in installed and/or transient combustibles which involves one train or division of a safety related system, will not propagate to the system's redundant counterpart. Where this cannot be demonstrated, an alternate means of assuring safe plant cold shutdown should be provided.

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Also, in the above analysis, you should identify all the redundant mechanical and electrical systems necessary for safe cold shutdown which are separated only by distance (no fire barriers). The fire hazards analysis should demonstrate that for a postulated fire including an exposure fire, and failure of the primary fire suppression system, that safe plant shutdown can still be accomplished.

We will need the above information by January 1, 1979, to enable us to perform our evaluation of your fire protection program on a schedule comparable with the anticipated staff review schedule for the Bellefonte application.

Sincerely,

Original Signed by:
O. D. Parr

Olan D. Parr, Chief
Light Water Reactors Branch No. 3
Division of Project Management

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