

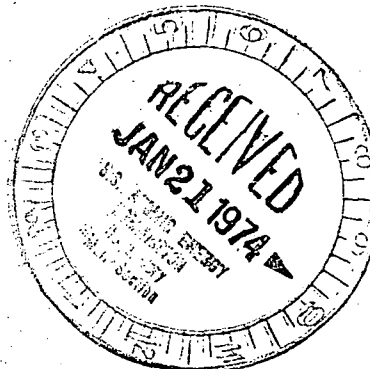
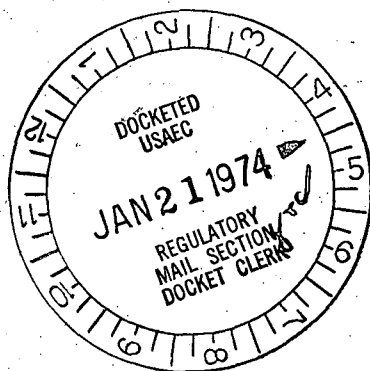
TENNESSEE VALLEY AUTHORITY
CHATTANOOGA, TENNESSEE
37401

TVA
40TH

ANNIVERSARY
OF PEOPLE IN
PARTNERSHIP



January 17, 1974



Mr. A. Giambusso
Deputy Director for Reactor Projects
U.S. Atomic Energy Commission
7920 Norfolk Avenue
Bethesda, Maryland 20014

Dear Mr. Giambusso:

Regulatory

File Cy.

PIPE WHIP AND JET FORCE CRITERIA FOR LIGHT-WATER REACTORS

In the Matter of the Applications of) Docket Nos. 50-390
Tennessee Valley Authority) 50-391

The Tennessee Valley Authority transmitted Topical Report No. TDA-TR-1, entitled "Protection Against Pipe Whip Resulting from Pipe Ruptures," on January 15, 1973, for formal review. This topical report was prepared jointly by the Tennessee Valley Authority, the Duke Power Company, and the American Electric Power Service Corporation (AEP) with the assistance of EDS Nuclear, Incorporated, a technical consultant. On August 29, 1973, a request for information resulting from the review was transmitted to the Tennessee Valley Authority along with a request for the schedule established for revising TDA-TR-1.

There is a significant industry effort now underway to formulate a set of criteria which will be acceptable to industry and at the same time meet the general intent of Regulatory Guide 1.46. Such an effort will require a considerable length of time. Since a response was required by November 1, 1973, to related AEC questions on the Bellefonte Nuclear Plant Preliminary Safety Analysis Report, it was determined that TVA will prepare individual design criteria documents for breaks inside containment based on the intent of Regulatory Guide 1.46 for each nuclear project. Similar documents will be prepared for breaks outside containment. Thus individual criteria, prepared with appropriate consideration of Regulatory Guide 1.46, applicable AEC letters, and TVA discussion with the staff, will be available for AEC review on each of TVA's nuclear projects. These criteria documents have already been provided to the Commission for Browns Ferry Nuclear Plant. Similar criteria have been completed for the Sequoyah and Bellefonte Nuclear Plants, and documents are now being prepared for Watts Bar Nuclear Plant.

Mr. A. Giambusso

January 17, 1974

With the concurrence of the Duke Power Company, AEP, and EDS Nuclear, Incorporated, we therefore request Topical Report No. TDA-TR-1 be withdrawn from regulatory review for the present. Although the report delineates an acceptable method for determining the location of pipe breaks, it does not totally meet the most recent requirements of the Commission as expressed in regulatory guides and letters. The report may be revised at a later date when the problems with the number of breaks and break locations have been resolved. Since this report is now referenced on the Watts Bar Nuclear Plant docket, TVA intends to submit in its place a specific design criteria document.

Very truly yours,



J. E. Gilleland
Assistant to the Manager of Power

CC: Mr. S. K. Blackley, Jr., Chief Engineer
Mechanical and Nuclear Division
Duke Power Company
P.O. Box 2178
Charlotte, North Carolina 28201

EDS Nuclear
220 Montgomery Street
San Francisco, California 94104

Mr. L. E. Houli
Mechanical Engineering Division
American Electric Power
2 Broadway
New York, New York 10004