

6/24/76

Docket Nos. 50-390
50-391

Tennessee Valley Authority
ATTN: Mr. Godwin Williams, Jr.
Manager of Power
830 Power Building
Chattanooga, Tennessee 37401

Gentlemen:

This letter is to inform you of recent events and conclusions concerning our generic review of Anticipated Transients Without Scram (ATWS) as they relate to Watts Bar Units 1 and 2.

As you know, upon the publication of our report on ATWS in September 1973 (WASH-1270), we sent you a letter on October 10, 1973, requesting analysis of ATWS in compliance with WASH-1270 as it applied to your facility. Your response of December 31, 1974, indicated that you were referencing the Westinghouse topical report, WCAP-8330, "Westinghouse ATWT Analysis" and WCAP-7706, "An Evaluation of Solid State Logic Reactor Protection in Anticipated Transients." You further stated that WCAP-8330 and 7706 demonstrate that no modifications are required for your facility to mitigate the consequences of ATWS.

You are probably aware that the NRC staff and Westinghouse personnel have been engaged in an extensive effort to resolve our differences concerning the referenced Westinghouse topical reports. We published our Status Report (Enclosure 1) on December 9, 1975, wherein we stated that additional analyses and justification of the Westinghouse analysis model are needed and that changes in typical Westinghouse plant designs are indicated. At the 189th Meeting of the Advisory Committee on Reactor Safeguards, the ATWS issue and our Status Reports were reviewed in conjunction with the staff and Westinghouse.

We now consider our review of the Westinghouse ATWS methods to be complete and our position clearly and adequately presented in the Status Report. We have written to Westinghouse Electric Corporation (Enclosure 2) informing them that we expect by June 30, 1976, they can provide us with acceptable additional analyses and justification of the Westinghouse analysis model as identified in our Status Report. Therefore, we request that you provide by December 30, 1976, the following information:

- a. The additional analyses and justification of the Westinghouse analysis model identified in the Status Report. (We anticipate that you

OFFICE >	will reference the generic June 30, 1976 Westinghouse analysis				
BURNNAME >	Model.)				
DATE >					

- b. Based on these analyses, identification of the design changes needed to assure that the limits specified in WASH-1270 will not be violated following an ATWS event.
- c. A schedule for the submittal of a detailed description of the design changes identified both in the Status Report and in item "b", including a detailed description of the diverse means of interrupting power to the control rod drive mechanisms.
- d. A schedule for the installation of the instruments, controls, and equipment described under item "c".

We have established the above schedules for the submittal of the required information to emphasize our determination to move forward to resolve the ATWS concern and conclude the lengthy deliberations that have taken place among all parties. We expect your efforts will be directed to this same end, and if you have any questions regarding this letter, please let me know.

This request for generic information was approved by GAO under a blanket clearance number B-180225 (R0072). This clearance expires July 31, 1977.

Sincerely,

Original signed by:
Roger S. Boyd

Roger S. Boyd, Director
Division of Project Management
Office of Nuclear Reactor Regulation

Enclosures:

- 1. Status Report
- 2. Letter to Westinghouse Electric Corp.

ccs:

Listed on next page

OFFICE →	LWR-2	LWR-2	LWR-2 <i>KK</i>	OELD <i>JK</i>	AD/LWRs	D-DPM
SURNAME →	<i>MServ</i> <i>ee:ng</i>	HSilver	KKniel	<i>RKHoefling</i>	<i>RCDe</i> <i>Boyd</i>	BSBoyd
DATE →	5/13/76	5/12/76	5/12/76	6/16/76	6/9/76	6/24/76

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VAMoore, DSE

RHVollmer, DSE

MLErnst, DSE

WPGamill, DSE

OELD

IE (3)

ACRS (16)

JMiller

bcc:

J. R. Buchanan, NSIC

Thomas B. Abernathy, TIC