

Babcock & Wilcox

a McDermott company

Nuclear Power Generation Division

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September 2, 1981

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Mr. Darl Hood, Project Manager
Consumer Power Co., Midland Project
Division of Project Management
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, DC 20555



Dear Mr. Hood:

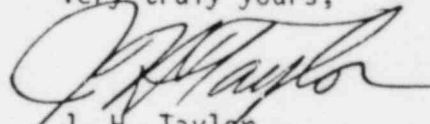
Enclosed is a copy of Topical Report BAW-10149, "POWER TRAIN-Hybrid Computer Simulation of a Babcock & Wilcox Nuclear Power Plant".

This report describes an updated version of B&W's POWER TRAIN code and is provided for your transmittal to Mr. Walton Jensen. This submittal is intended to provide additional information about the extent of power plant modeling and also to address NRC's question No. 4. This is one of a group of questions sent to us by your office 4/4/79 concerning BAW-10070, a topical report still under review, describing an earlier version of POWER TRAIN.

This response is provided to meet in part our commitment made in the June 25, 1981 meeting on Midland FSAR Chapter 15 accident analysis wherein B&W will address outstanding NRC questions on BAW-10070 with the more comprehensive Topical Report BAW-10149.

We plan to submit a revision to this topical describing methods and application of the code in FSAR analyses and will include benchmarking this version of the code against the earlier version described in BAW-10070. This later submittal, with a complete Section 4 entitled "Applications" is targeted for completion by the end of 1981 and will be the document that will address the remaining questions of 4/4/79 on BAW-10070.

Very truly yours,


J. H. Taylor
Manager, Licensing

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JHT/fw
Enclosures

cc: T. J. Sullivan - Consumers Power Co.
R. B. Borsum - Bethesda - B&W Office

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General Information: Question 4

The steam generator is described in generality with respect to the finite difference equations used to compute the unit thermodynamics. The model detail used in accident analyses, the heat transfer regimes and correlations modeled, and the unit hydrodynamics are not presented. Provide descriptions for each of these aspects of the steam generator model to enable a more adequate understanding of the OTSG model.

Response

The attached Topical Report BAW-10149 provides the requested detailed description of steam generator model.