



Westinghouse  
Electric Corporation

Power Systems

Box 355  
Pittsburgh Pennsylvania 15230-0355

June 30, 1986

NS-NRC-86-3143

Mr. Jim Lyons, Chief  
Technical and Operations Support Branch  
Office of Nuclear Reactor Regulations  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Subject: Transmittal of Westinghouse Topical Report, WCAP-11146  
(Proprietary), "MAZDA-NF-A Parallel Channel Stability  
Analysis Code for BWR Fuel Assemblies"

Attention: Document Control Desk

Wayne Hodges, Chief  
Reactor Systems Branch

Mary F. Haughey, Project Manager  
Division of BWR Licensing

Dear Mr. Lyons:

Enclosed are:

- 1) Twenty-three (23) copies of the Topical Report, "MAZDA-NF-A Parallel Channel Stability Analysis Code for BWR Fuel Assemblies," WCAP-11146 (Proprietary).
- 2) One (1) copy of an Application for Withholding Proprietary Information from Public Disclosure (Non-Proprietary).

The MAZDA-NF code has been developed for the stability analysis of open lattice (e.g., GE 8x8) and watercross (Westinghouse QUAD+) BWR fuel assembly designs. It includes the effect of reactivity feedback and also incorporates a loop model. The code has been extensively benchmarked against exact analytical solutions as well as a wide range of experimental data taken with full-scale BWR assemblies. These comparisons indicate the overall suitability of using MAZDA-NF for reliably predicting BWR fuel stability behavior.

The enclosed material is submitted for your information and is to be treated as proprietary information of Westinghouse Electric Corporation. The information will be separately resubmitted in whole in conformance with the requirements of 10CFR2.790 should it be employed as part of a license application or other action identified in 10CFR2.790(a).

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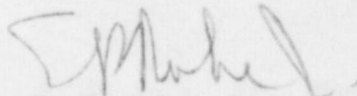
Mr. Jim Lyons

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Correspondence with respect to the application for withholding should reference AW-86-050, and should be addressed to R. A. Wiesemann, Manager of Regulatory and Legislative Affairs, Westinghouse Electric Corporation, P. O. Box 355, Pittsburgh, Pennsylvania 15230.

Very truly yours,

A handwritten signature in dark ink, appearing to read "E. P. Rahe, Jr.", is positioned above the typed name.

E. P. Rahe, Jr., Manager  
Nuclear Safety Department