



Westinghouse
Electric Corporation

Energy Systems

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April 21, 1997
NSD-NRC-97-5068

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

Attention: J. E. Lyons, Acting Chief
Reactor Systems Branch
Division of Systems Safety and Analysis

Subject: WCAP-14565, Revision 0, "VIPRE-01 Modeling and Qualification for Pressurized Water Reactor Non-LOCA Thermal-Hydraulic Safety Analysis," April 1997 [Proprietary]

Reference: Letter from E. Y. Wang (NRC) to D. B. Matthews (NRC), "Meeting Summary of October 29, 1996, Westinghouse and NRC Regarding RETRAN and VIPRE Computer Codes", November 6, 1996.

Dear Mr. Lyons:

Enclosed are:

- (1) Ten (10) copies of WCAP-14565, Revision 0, "VIPRE-01 Modeling and Qualification for Pressurized Water Reactor Non-LOCA Thermal-Hydraulic safety Analysis," April 1997 [Proprietary]

The enclosed information is being submitted for your review and approval.

On October 29, 1996, representatives of Westinghouse met with representatives of the Nuclear Regulatory Commission (NRC) to discuss the licensing process for applying the previously NRC-approved RETRAN-02 (RETRAN) and VIPRE-01 (VIPRE) codes with the Westinghouse NRC-approved analysis methodology. Westinghouse's proposed licensing process is summarized in the above referenced letter. Based on discussions during the meeting, Westinghouse will submit topical reports on the RETRAN and VIPRE applications to expedite the licensing process.

This letter transmits the topical report (WCAP-14565, Revision 0) on the VIPRE applications, titled "VIPRE-01 Modeling and Qualification for Pressurized Water Reactor (PWR) Non-LOCA Thermal-Hydraulic Safety Analysis". The report demonstrates that with Westinghouse's modeling methods, the VIPRE code can be equivalent to Westinghouse's NRC-approved design codes THINC and FACTRAN for PWR Thermal-Hydraulic (T/H) design and non-Loss-of-Coolant-Accident (non-LOCA) safety analysis.

Westinghouse is planning to apply the VIPRE code for the safety analysis of South Texas steam generator replacement in 1998. Therefore, a timely review is requested. Westinghouse is prepared to fully support the review process as needed.

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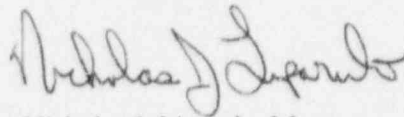
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This submittal contains Westinghouse proprietary information of trade secrets, commercial or financial information which we consider privileged or confidential pursuant to 10CFR9.5(4). Therefore, it is requested that the Westinghouse proprietary information attached hereto be handled on a confidential basis and be withheld from public disclosure.

This material is for your internal use only and may be used solely for the purpose for which it is submitted. It should not be otherwise used, disclosed, duplicated, or disseminated, in whole or in part, to any other person or organization outside the Office of Nuclear Reactor Regulation without the express prior written approval of Westinghouse.

Correspondence with respect to any Application for Withholding should reference AW-97-1093 and should be addressed to N. J. Liparulo, Manager of Equipment Design and Regulatory Engineering, Westinghouse Electric Corporation, P. O. Box 355, Pittsburgh, Pennsylvania 15230-0355.

Very truly yours,

A handwritten signature in dark ink, appearing to read "Nicholas J. Liparulo". The signature is fluid and cursive, with the first name "Nicholas" and last name "Liparulo" clearly distinguishable.

Nicholas J. Liparulo, Manager
Equipment Design and Regulatory Engineering