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NS-NRC-91-3582
NS-SAT-THA-91-084
April 19, 1991

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Attention: Lynne Sapp, Planning, Program, and Management Support Branch

Subject: Submittal of WCAP-10924-P, Revision 2, Volume 2, Addendum 3

Dear Ms. Sapp:

Enclosed are five (5) copies of WCAP-10924-P, Revision 2, Volume 2;
"Westinghouse Large Break LOCA Best Estimate Methodology: Application to
Two-Loop PWRs Equipped with Upper Plenum Injection," Addendum 3, "Upper Plenum
Injection Model Improvement" [Proprietary].

The enclosed addendum to the technical report is submitted for NRC review and approval. The report presents and justifies an improved model for Upper Plenum Injection (UPI) in Westinghouse two-loop pressurized water reactors for use in the WCOBRA/TRAC thermal-hydraulics code. In addition, several corrections to WCOBRA/TRAC, dealing primarily with interfacial drag relationships for gap flows, are described and justified. A code uncertainty evaluation is provided. Finally, Appendix K and Superbounded large break LOCA calculations are presented for a typical two-loop PWR using the new UPI model and the corrected code.

Timely review of this report is requested to support fuel reloads and ongoing analyses for several UPI plants.

If you have any questions, please contact either Mr. R. D. Ankney at (412) 374-4181 or Dr. L. E. Hochreiter at (412) 374-5158.

Note that at this time, only the proprietary version of this document, appropriately bracketed to identify proprietary information, has been provided. This is consistent with the guidelines given in NUREG-0390, Volume 6, No. 1, "Topical Report Review Status." Westinghouse will submit a corresponding non-proprietary version of the technical report upon receipt of an NRC acceptance letter and SER.

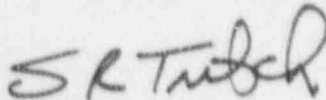
NS-NRC-91-3582
NS-SAT-THA-91-084
April 19, 1991
Page 2

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 only 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 written approval of Westinghouse.

Correspondence with respect to the Affidavit or Application for Withholding Proprietary Information should reference AW-91-151 and should be addressed to R. P. DiPiazza, Operating Plant Licensing Support, Westinghouse Electric Corporation, P.O. Box 355, Pittsburgh, Pennsylvania 15230-0355.

Very truly yours,



S. Tritch, Manager
Nuclear Safety Department

RDA:sm

Enclosure(s)

cc: R. Jones, RSB
F. Orr, RSB