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Energy Systems

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NTD-NRC-94-4037
NTD-NSASD-SAIN-94-010
January 14, 1994

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

Attention: Dr. Thomas Murley, Director

Subject: Response to Request for Additional Information on WCAP-12909-P
(TAC No. M81078)

- Reference: 1) WCAP-12909-P, D. L. Stucker, et al., "Westinghouse ECCS Evaluation Model:
Revised Large Break LOCA Power Distribution Methodology," May 1991.
- 2) WCAP-10484-P-A, Addendum 1, D. J. Shimeck, "Spacer Grid Heat Transfer
Effects During Reflood," September 1993.

Dear Dr. Murley:

Enclosed are ten (10) copies of the Westinghouse responses to the NRC request for additional information on WCAP-12909-P. Please note the following detail regarding these responses.

The large break LOCA analysis results presented in Reference (1) were generated using the version of the 1981 Evaluation model with BASH, which was in use at that time (1991). Westinghouse has recently revised the grid model to correct a programming logic error (Reference (2)). It is expected that this code correction would have some effect on the Peak Cladding Temperature (PCT) calculated for a specific power shape, but should not significantly affect the conservatism of the PSSM application methodology. The data shown in Figure 7b of the enclosure support this statement. Westinghouse will verify that the PSSM application methodology described in Reference (1) remains applicable with the correct code version, or revise the methodology if necessary. In the interim, Westinghouse will continue to use the PSSM application methodology as described in Reference (1), and the enclosed responses to the request for additional information.

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NTD-NRC-94-4037
NTD-NSASD-SAIN-94-010
January 14, 1994
Page 2

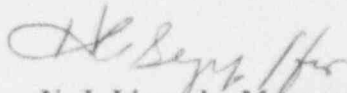
In conformance with the requirement of 10CFR Section 2.790, as amended, of the Commission's regulations, we are enclosing with this submittal an Application for Withholding Proprietary Information from public disclosure and an Affidavit. The Affidavit sets forth the basis on which the information may be withheld from public disclosure by the Commission.

Correspondence with respect to the Affidavit or Application for Withholding should reference AW-94-564 and should be addressed to N. J. Liparulo, Nuclear Safety and Regulatory Activities, Westinghouse Electric Corporation, P.O. Box 355, Pittsburgh, Pennsylvania, 15230-0355.

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If you have any questions, please contact M. E. Nissley at (412) 374-4303.

Very truly yours,



N. J. Liparulo, Manager
Nuclear Safety and Regulatory Activities

MGW:sm

Enclosure(s)

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

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