



Westinghouse  
Electric Corporation

Nuclear Manufacturing  
Divisions

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June 30, 1994  
NTD-NRC-94-4180

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

Attention: T. E. Collins, Acting Chief  
Reactor Systems Branch  
Division of Systems Technology

Subject: Addendum 1 to WCAP-10851-P-A, "Uranium Dioxide - Gadolinia Fuel Material Properties for Gadolinia Concentrations > 6 w/o [Proprietary]"

References: (1) R. A. Weiner, et al., "Improved Fuel Performance Models for Westinghouse Fuel Rod Design and Safety Evaluations," WCAP-10851-P-A, August 1988.

Dear Mr. Collins:

In Reference (1) Westinghouse submitted material properties to be used in fuel performance calculations for fuel with  $UO_2 - Gd_2O_3$  (gadolinia) pellets. The SER for Reference (1) limited the use of the gadolinia models to concentrations of 6 w/o or less, primarily due to the lack of gas release data from fuel with gadolinia concentrations above 4 w/o and the concerns about the fission gas release at higher gadolinia concentrations.

Enclosed are six (6) copies of a submittal that provides the basis for extending the licensing of the Westinghouse models for gadolinia fuel performance calculations to gadolinia concentrations above 6 w/o. As discussed with your staff, this submittal is being made in lieu of your approval of the use of gadolinia concentrations > 6 w/o addressed in the review of topical report WCAP-12488, "Westinghouse Fuel Criteria Evaluation Process." Your timely review and approval of this information is requested.

This submittal contains Westinghouse proprietary information of trade secrets, commercial or financial information which we consider privileged or confidential pursuant to 10 CFR 9.5(4). Therefore, it is requested that the Westinghouse proprietary information attached hereto be handled on a confidential basis and be withheld from public disclosure.

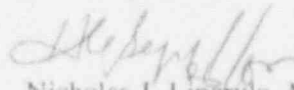
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Correspondence with respect to any Application for Withholding should reference AW-94-654 and should be addressed to N. J. Liparulo, Manager of Nuclear Safety Regulatory and Licensing Activities, Westinghouse Electric Corporation, P. O. Box 355, Pittsburgh, Pennsylvania 15230-0355.

Very truly yours,



Nicholas J. Liparulo, Manager  
Nuclear Safety Regulatory and Licensing Activities

cc: L. W. Barnett, NRC (MS 12H5)  
L. E. Phillips, NRC (MS8E23)  
S. L. Wu, NRC (MS 8E23)

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