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**Project Number 726
STD-ES-03-21**

May 28, 2003

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC. 20555-0001
ATTENTION: MS. L. C. FIELDS

SUBJECT: Transmittal of WCAP-16103-P, "IRIS Scaling Analysis, Part I" (Proprietary) and WCAP-16103-NP (Non-Proprietary)

Dear Ms. Fields:

Enclosed are copies of topical reports WCAP-16103-P, "IRIS Scaling Analysis, Part I" (Proprietary) and WCAP-16103-NP (Non-Proprietary) related to the pre-licensing review of the International Reactor Innovative And Secure (IRIS) reactor.

The topicals provide a detailed overview of the first two stages of the IRIS Scaling Analysis, Stage 1 (System Decomposition) and Stage 2 (Scale Identification) of the Hierarchical, Two-Tiered Scaling Analysis. Stage 3 (Top-Down System Scaling Analysis) and Stage 4 (Bottom-Up Process Scaling Analysis) will be submitted as Part 2 and Part 3 respectively. We are planning to submit Part 2 (Stage 3) in a few months as a document necessary for NRC review of the proposed IRIS test program. Part 3 (Stage 4) will be prepared later, after resolution of NRC comments on the test program.

Section 3 of this document, "Stage 2 - Scale Identification," contains detailed equations representing the relationships between constituents, phases and geometrical configurations as required to perform Stage 2. We are not requesting staff step-by-step review of these equations which would be very tedious, time consuming and expensive; rather, we are very interested in the staff review and comments regarding the decomposition and physical approach.

Proprietary Submittal

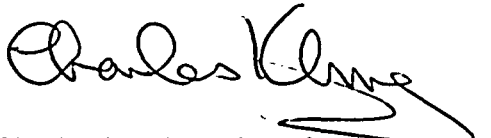
This submittal contains Westinghouse proprietary information of trade secrets, commercial, or financial information which we consider privileged or confidential pursuant to 10 CFR 9.17(a)(4). Therefore, it is requested that the Westinghouse proprietary information attached hereto be handled on a confidential basis and be withheld from public disclosure.

This material is for your internal use only and may be used 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 organisation outside the Commission, the Office of Nuclear

Reactor Regulation, the Office of Nuclear Regulatory Research and the necessary subcontractors that have signed a proprietary non-disclosure agreement with Westinghouse, without the express written approval of Westinghouse.

Correspondence with respect to the application for withholding should reference AW-03-1637, and should be addressed to Hank A. Sepp, Manager of Regulatory Compliance and Plant Licensing, Westinghouse Electric Company, P.O. Box 355, Pittsburgh, Pennsylvania, 15230-0355.

Please contact Milorad Dzodzo (412) 256-1655 or myself (860) 731-6604 if you have any questions concerning the enclosed material.



Charles L. Kling, Licensing Manager-
IRIS Project

/Enclosures:

1. AW-03-1637, APPLICATION FOR WITHHOLDING PROPRIETARY INFORMATION FROM PUBLIC DISCLOSURE, May 13, 2003
2. WCAP-16103-P, "IRIS Scaling Analysis, Part I" (Proprietary), April 2003
3. WCAP-16103-NP, "IRIS Scaling Analysis, Part I" (Non-Proprietary), April 2003

cc: M. D. Carelli (W) w/o Enclosures 2&3
C. B. Brinkman (W)
G. Shukla/NRR w/o Enclosures