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**Project Number 726
STD-ES-03-38**

October 29, 2003

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

SUBJECT: Transmittal of WCAP-16082-NP, "IRIS Preliminary Safety Assessment, Vol. II" (Non-Proprietary)

References:

1. Letter STD-ES-03-31, " Request for IRIS Near Term Review and Budget Estimate," August 8, 2003.
2. Letter STD-ES-03-28, " Transmittal of WCAP-16082-P, "IRIS Preliminary Safety Assessment, Vol. I" (Proprietary) and WCAP-16082-NP (Non-Proprietary), July 28, 2003.

Dear Ms. Fields:

Enclosed are copies of topical report WCAP-16082-NP, "IRIS Preliminary Safety Assessment, Vol. II" (Non-Proprietary) related to the pre-licensing review of the International Reactor Innovative And Secure (IRIS) reactor. Because generation of this topical did not include any proprietary material, there is no proprietary version of this topical. All IRIS related references have been previously transmitted to you via STD-ES-03-8 and STD-ES-03-14.

Westinghouse believes submission of WCAP-16082-NP, Vol. II, completes the documentation the NRC needs to perform the IRIS near term review requested in Reference 1. As stated in this reference:

"The purpose of the near term review will be to provide staff feedback that we will use in generating the set of documents which will define the IRIS planned test program.

We request that the majority of this feedback be provided via an informal meeting (to be held in the October-November time period) with the staff, after they have reviewed the information identified above."

We realise the submission of this last topical in mid-October may impact the requested schedule; however, we would still request this informal feedback be provided early in December, so that we can maintain our remaining pre-application schedule.

The enclosed topical provides the remaining preliminary safety assessment of the IRIS reactor. As it was the case with the previously submitted Volume 1, the main purpose of this study is to assist in the identification of 1) the important phenomena, 2) sequences that IRIS Evaluation Models will have to address and 3) component test requirements. The events analysed in this study are a subset of those studied for AP1000 and AP600, and have been selected (1) to address those events where IRIS response is different from AP1000, and (2) to provide an initial overview of the IRIS response to different anticipated operational occurrences and design basis events.

Volume II of this topical (enclosed) includes evaluations and analyses for the following transient categories:

Reactivity And Power Distribution Anomalies
Increase In Reactor Coolant Inventory
Decrease In Reactor Coolant Inventory
Radioactive Release From A Subsystem Or Component

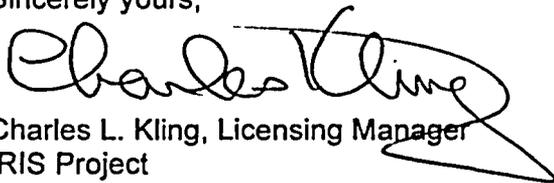
Volume I of this topical (submitted via Reference 2) included analyses for the following transient categories:

Increase In Heat Removal From The Primary System
Decrease In Heat Removal By The Secondary System
Decrease In Reactor Coolant System Flow

WCAP-16082-NP, Vol. II, does not contain 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, there is no restriction on its further distribution.

Please contact Luca Oriani (412) 256-1692 or myself (860) 731-6604 if you have any questions concerning the enclosed material.

Sincerely yours,



Charles L. Kling, Licensing Manager
IRIS Project

/Enclosures:

1. WCAP-16082-NP, "IRIS Preliminary Safety Assessment, Vol. II" (Non-Proprietary), October 2003

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