

August 16, 2007

Mr. James A. Gresham, Manager
Regulatory Compliance and Plant Licensing
Westinghouse Electric Company
P.O. Box 355
Pittsburgh, PA 15230-0355

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION RE: WESTINGHOUSE
ELECTRIC COMPANY (WESTINGHOUSE) TOPICAL REPORT (TR)
WCAP-16081-P, ADDENDUM 1, REVISION 0, "SVEA-96 OPTIMA2 CPR
[CRITICAL POWER RATIO] CORRELATION (D4): HIGH AND LOW FLOW
APPLICATIONS" (TAC NO. MD3959)

Dear Mr. Gresham:

By letter dated November 28, 2006 (Agencywide Documents Access and Management System Accession No. ML063520424), Westinghouse submitted for U.S. Nuclear Regulatory Commission (NRC) staff review TR WCAP-16081-P, Addendum 1, Revision 0, "SVEA-96 OPTIMA2 CPR Correlation (D4): High and Low Flow Applications." Upon review of the information provided, the NRC staff has determined that additional information is needed to complete the review. On August 3, 2007, Michael Riggs, Principal Fuel Licensing Engineer, and I agreed that the NRC staff will receive your response to the enclosed Request for Additional Information (RAI) questions by September 15, 2007. If you have any questions regarding the enclosed RAI questions, please contact me at 301-415-1119.

Sincerely,

/RA/

Jon H. Thompson, Project Manager
Special Projects Branch
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

Project No. 700

Enclosure: RAI Questions

cc w/encl: See next page

Westinghouse Electric

Project No. 700

cc:

Mr. Gordon Bischoff, Manager
Owners Group Program Management Office
Westinghouse Electric Company
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Pittsburgh, PA 15230-0355
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12/21/05

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ADAMS ACCESSION NO.: ML072180344

NRR-106

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DATE	08/16 /07	08/15 /07	08/16 /07

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REQUEST FOR ADDITIONAL INFORMATION

BY THE OFFICE OF NUCLEAR REACTOR REGULATION

WCAP-16081-P, ADDENDUM 1, REVISION 0, "SVEA-96 OPTIMA2 CPR [CRITICAL
POWER RATIO] CORRELATION (D4): HIGH AND LOW FLOW APPLICATIONS"

WESTINGHOUSE ELECTRIC COMPANY

PROJECT NO. 700

The NRC staff has reviewed the request related to high and low flow applications outside of ranges specified in Section 8 of WCAP-16081-P-A. A further clarification is needed as follows:

1. Please describe under what circumstances low flow and high flow will occur outside approved ranges provided in Section 8 of WCAP-16081-P-A while using the SVEA-96 Optima2 CPR Correlation.
2. Describe the safety impact on the reactor operation when operating at high flow and low flow outside approved limits. Provide and justify the method used to determine that high and low flow operation outside approved limits is acceptable and that the method is proper for any boiling water reactor applications. Identify the proposed limits to be used up to or beyond approved flow ranges.
3. Please show that the critical power predictions obtained with the D4 correlation in the low flow region (below the range of D4.1.1 correlation's database) satisfy the thermal margin protection specified in Standard Review Plan Section 4.4.
4. Are there any future tests planned to collect information for the proposed low flow and high flow ranges that are outside of approved ranges to justify the validity of the proposed method to extend the approved flow ranges?

ENCLOSURE