



Westinghouse Electric Company
5801 Bluff Road
Drawer R
Columbia, SC 28250
USA

18 February, 2003
LTR-NRC-03-4

Project No. 700

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
One White Flint North
11555 Rockville Pike
Rockville, Maryland 20852-2738

SUBJECT: SUBMITTAL OF WCAP-16047-P, REV. 0, "IMPROVED APPLICATION OF WESTINGHOUSE BOILING-LENGTH CPR CORRELATIONS FOR BWR SVEA FUEL"
[Enclosure 1-P Contains Westinghouse Proprietary Class 2 Material]

- References:
1. WCAP-16047-P, Revision 0, "Improved Application of Westinghouse Boiling-Length CPR Correlations for BWR SVEA Fuel", 2/03
 2. Telecommunication, J. S. Cushing (NRC) to W. Harris (Westinghouse), 11/07/01
 3. Letter, P. W. Richardson (Westinghouse) to USNRC Document Control Desk, "Improved Application of Westinghouse Boiling Length CPR Correlations", LTR-ESI-02-30, 2/08/03
 4. Telecommunication, A. C. Attard (NRC) to W. Harris (Westinghouse), 7/16/02

Westinghouse Electric Company LLC (Westinghouse) is submitting herewith WCAP-16047-P, Rev. 0, "Improved Application of Westinghouse Boiling-Length CPR Correlations for BWR SVEA Fuel" (Reference 1), for Nuclear Regulatory Commission (NRC) review and acceptance for licensing application to SVEA BWR fuel. WCAP-16047-P introduces two improvements in the application of boiling-length Critical Power Ratio (CPR) correlations to SVEA Boiling Water Reactor (BWR) fuel.

Westinghouse has previously discussed this initiative (i.e., CPR improvements) with the NRC during a telephone conference call (Reference 2). During that conversation, the NRC requested that Westinghouse provide a written description of the proposed improvements. Accordingly, Westinghouse prepared and submitted a letter report for NRC information (Reference 3). Based on its review of this information, the NRC requested (Reference 4) that the information in be provided for formal review in the form of a topical report. WCAP-16047-P is the conversion of the information provided in the letter report (Reference 3) into a topical report format. The topical report addresses the same technical information as previously reviewed in the letter report albeit with some further elaboration.

Given the NRC review familiarity with this information (References 2 to 4), Westinghouse respectfully requests NRC acceptance of the CPR improvements discussed in WCAP-16047-P, Rev. 0 by April 15, 2003, to support application to the Hope Creek Generating Station beginning with Cycle 12 operation and subsequently to the Columbia Generating Station beginning with Cycle 17 operation.

Westinghouse has determined that the information contained in WCAP-16047-P, Rev. 0 (Enclosure 1-P) is proprietary in nature. It is, therefore, requested that this information be withheld from public disclosure in accordance with the provisions of 10 CFR 2.790 and that the information be appropriately safeguarded. The reasons for the classification of this information as proprietary are delineated in the affidavit provided in Enclosure 2. Enclosure 3 provides a non-proprietary version of the topical report (i.e., WCAP-16047-NP).

The information transmitted herewith bears a Westinghouse copyright notice. The NRC is permitted to make the number of copies of the information contained in these reports which are necessary for its internal use in connection with generic and plant-specific reviews and approvals as well as the issuance, denial, amendment, transfer, renewal, modification, suspension, revocation, or violation of a license, permit, order, or regulation subject to the requirements of 10 CFR 2.790 regarding restrictions on public disclosure to the extent such information has been identified as proprietary by Westinghouse, copyright protection notwithstanding. With respect to the non-proprietary version of this report, the NRC is permitted

A BNFL Group company

D054

to make the number of copies beyond those necessary for its internal use which are necessary in order to have one copy available for public viewing in the appropriate docket files in the public document rooms as may be required by NRC regulations if the number of copies submitted is insufficient for this purpose. Copies made by the NRC must include the copyright notice in all instances and the proprietary notice if the original was identified as proprietary.

If you have any questions regarding this matter, please do not hesitate to call Chuck Molnar of my staff at (860) 731-6286 or Bill Harris of our technical staff at (860) 731-1846.

Very truly yours,


for Donald M. Rowland
Manager, Fuel Licensing & Special Projects
Westinghouse Electric Co. LLC

Enclosure(s): As stated

xc: R. Caruso (NRC, w/o Enclosures)
S. Dembek (NRC, w/o Enclosures)
G. Shukla (NRC, w/Enclosures)

WESTINGHOUSE ELECTRIC COMPANY LLC

WCAP-16047-P, REV. 0

**IMPROVED APPLICATION OF WESTINGHOUSE BOILING-
LENGTH CPR CORRELATIONS FOR BWR SVEA FUEL**

FEBRUARY, 2003

This document is the property of and contains Proprietary Information owned by Westinghouse Electric Company LLC and/or its subcontractors and suppliers. It is transmitted to you in confidence and trust, and you agree to treat this document in strict accordance with the terms and conditions of the agreement under which it was provided to you.

Westinghouse Non-proprietary Class 3

Enclosure 3 to LTR-NRC-03-4

WESTINGHOUSE ELECTRIC COMPANY LLC

NON-PROPRIETARY WCAP-16047-NP, REV. 0

**IMPROVED APPLICATION OF WESTINGHOUSE BOILING-
LENGTH CPR CORRELATIONS FOR BWR SVEA FUEL**

FEBRUARY, 2003