



Westinghouse Electric Company
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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).

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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 Proprietary Class 2

Enclosure 1-P to LTR-NRC-03-4

WESTINGHOUSE ELECTRIC COMPANY LLC

WCAP-16047-P, REV. 0

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

FEBRUARY, 2003

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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