

August 9, 2012

Mr. James A. Gresham, Manager  
Regulatory Compliance and Plant Licensing  
Westinghouse Electric Company  
1000 Westinghouse Drive  
Cranberry Township, PA 16066

SUBJECT: FINAL SAFETY EVALUATION FOR WESTINGHOUSE ELECTRIC  
COMPANY (WESTINGHOUSE) TOPICAL REPORT WCAP-12472-P/  
WCAP-12472-NP, ADDENDUM 4, "BEACON™ CORE MONITORING AND  
OPERATION SUPPORT SYSTEM, ADDENDUM 4" (TAC NO. ME5240)

Dear Mr. Gresham:

By letter dated December 10, 2010 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML1035100670), Westinghouse submitted for U.S. Nuclear Regulatory Commission (NRC) staff review Topical Report (TR) WCAP-12472-P/WCAP-12472-NP, Addendum 4, "BEACON™ Core Monitoring and Operation Support System."

By letter dated February 13, 2012 (ADAMS Accession No. ML1201901561), an NRC draft safety evaluation (SE) regarding our approval of TR WCAP-12472-P/WCAP-12472-NP, Addendum 4, was provided for your review and comments. By letter dated March 26, 2012, Westinghouse commented on the draft SE. The NRC staff's disposition of Westinghouse's comments on the draft SE are discussed in the attachment to the final SE enclosed with this letter. In addition, the NRC staff has made minor editorial changes.

The NRC staff has found that TR WCAP-12472-P/WCAP-12472-NP, Addendum 4, is acceptable for referencing in licensing applications for use of the updated BEACON™ system developed by Westinghouse to improve operational support for pressurized-water reactors subject to the criteria specified in the SE.

Our acceptance applies only to material provided in the subject TR. We do not intend to repeat our review of the acceptable material described in the TR. When the TR appears as a reference in license applications, our review will ensure that the material presented applies to the specific plant involved. License amendment requests that deviate from this TR will be subject to a plant-specific review in accordance with applicable review standards.

**NOTICE: Enclosures 2 and 4 transmitted herewith contains proprietary information. When separated from Enclosures 2 and 4, this document is decontrolled.**

J. Gresham

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In accordance with the guidance provided on the NRC website, we request that Westinghouse publish accepted proprietary and non-proprietary versions of this TR within three months of receipt of this letter. The accepted versions shall incorporate this letter and the enclosed final SE after the title page. Also, they must contain historical review information, including NRC requests for additional information (RAIs) and your responses. The accepted versions shall include an “-A” (designating accepted) following the TR identification symbol.

As an alternative to including the RAIs and RAI responses behind the title page, if changes to the TR were provided to the NRC staff to support the resolution of RAI responses, and the NRC staff reviewed and approved those changes as described in the RAI responses, there are two ways that the accepted version can capture the RAIs:

1. The RAIs and RAI responses can be included as an Appendix to the accepted version.
2. The RAIs and RAI responses can be captured in the form of a table (inserted after the final SE) which summarizes the changes as shown in the approved version of the TR. The table should reference the specific RAIs and RAI responses which resulted in any changes, as shown in the accepted version of the TR.

If future changes to the NRC’s regulatory requirements affect the acceptability of this TR, Westinghouse and/or licensees referencing it will be expected to revise the TR appropriately, or justify its continued applicability for subsequent referencing.

Sincerely,

**/RA/**

Sher Bahadur, Deputy Director  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation

Project No. 700

Enclosures:

1. Final SE (Non-Proprietary version)
2. Final SE (Proprietary version)
3. Resolution of comments (Non-Proprietary version)
4. Resolution of comments (Proprietary version)

cc with encls.1 and 3 only: See next page

J. Gresham

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Sher Bahadur, Deputy Director  
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**ADAMS Accession Nos.: ML12158A243 (Cover letter); ML12150A147 (Pkg.); ML12158A263 (Encl. 1); ML12158A268 (Encl. 2); ML12158A272 (Encl. 3); ML12158A276 (Encl. 4) NRR-106**

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Westinghouse Electric Company  
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Project No. 700

Mr. Kris Cummings, Manager  
Nuclear Fuel Engineering Licensing  
Westinghouse Electric Company  
P.O. Box 355  
Pittsburgh, PA 15230-0355  
[cumminkw@westinghouse.com](mailto:cumminkw@westinghouse.com)

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