

November 1, 2012

Mr. Scott Head, Manager
Regulatory Affairs
Nuclear Innovation North America, LLC
122 West Way, Suite 405
Lake Jackson, TX 77566

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

SUBJECT: FINAL SAFETY EVALUATION FOR WESTINGHOUSE ELECTRIC COMPANY
LICENSING TOPICAL REPORT WCAP-17079-P FOR BOILING-WATER
REACTORS 2-6 AND ADVANCED BOILING-WATER REACTOR,
“SUPPLEMENT 3 TO BISON TOPICAL REPORT RPA 90-90-A SAFIR
CONTROL SYSTEM SIMULATOR” (PROJECT NO. 700 and NO. 0772)

Dear Mr. Head and Mr. Gresham:

By letter dated October 13, 2009 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML093080098), Westinghouse Electric Company (Westinghouse) submitted to the U.S. Nuclear Regulatory Commission (NRC) staff Topical Report (TR) WCAP-17079-P, “Supplement 3 to BISON Topical Report RPA 90-90-P-A SAFIR Control System Simulator.” By letter dated October 29, 2009 (ADAMS Accession No. ML093080097), South Texas Project Nuclear Operating Company (STPNOC) also submitted this TR as part of a series of advanced boiling-water reactor (ABWR) fuel-related TRs that will support a future license amendment for South Texas Project (STP) Units 3 and 4. In addition, by letter dated December 29, 2009 (ADAMS Accession No. ML100070553), Westinghouse and STPNOC requested concurrent reviews of this TR by the Office Nuclear Reactor Regulation for applicability to current operating boiling-water reactors (BWR) and by the Office of New Reactors for applicability to ABWR.

By an email dated February 9, 2012 (ADAMS Accession No. ML12212A245), two NRC draft safety evaluations (SEs) regarding approval of TR WCAP-17079-P for BWR 2-6 and ABWR reactors were provided for your review and comments. By letter dated April 11, 2012 (ADAMS Accession No. ML12107A121), Nuclear Innovation North America (NINA) and Westinghouse commented on these two draft SEs. The NRC’s disposition of these comments on the draft SEs are discussed in Enclosures (3), (4), (7), and (8) to this letter.

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- 2 -

The NRC staff has found that TR WCAP-17079-P is acceptable for referencing in licensing applications for BWR 2-6 reactors to the extent specified and under the limitations and conditions delineated in the TR and in the enclosed final SE (enclosure 2). In addition, the NRC staff has found that TR WCAP-17079-P is acceptable for referencing in licensing applications for ABWR reactors to the extent specified and under the limitations and conditions delineated in the TR and in the enclosed final SE (enclosure 6). These final SEs define the basis for our acceptance of the TR.

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.

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.

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- 3 -

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/

Frank Akstulewicz, Deputy Director
Division of New Reactor Licensing
Office of New Reactors

Project Nos.: 0700 and 0772

- Enclosures:
1. Final BWRS 2-6 SE (non-proprietary version)
 2. Final BWRS 2-6 SE (proprietary version)
 3. Resolution of BWRS 2-6 comments (non-proprietary version)
 4. Resolution of BWRS 2-6 comments (proprietary version)
 5. Final ABWR SE (non-proprietary version)
 6. Final ABWR SE (proprietary version)
 7. Resolution of ABWR comments (non-proprietary version)
 8. Resolution of ABWR comments (proprietary version)
 9. Appendix A
 10. Appendix B (non-proprietary)
 11. Appendix B (proprietary)

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- 3 -

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 4. Resolution of BWRS 2-6 comments (proprietary version)
 5. Final ABWR SE (non-proprietary version)
 6. Final ABWR SE (proprietary version)
 7. Resolution of ABWR comments (non-proprietary version)
 8. Resolution of ABWR comments (proprietary version)
 9. Appendix A
 10. Appendix B (non-proprietary)
 11. Appendix B (proprietary)

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ADAMS Accession Nos.:

ML12205A286 (Pkg.); ML12205A300 (Letter) NRO-002

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