

June 21, 2016

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
TOPICAL REPORT_WCAP-16500-P/WCAP-16500-NP, SUPPLEMENT 2,
"EVOLUTIONARY DESIGN CHANGES TO CE 16X16 NEXT GENERATION
FUEL AND METHOD FOR ADDRESSING THE EFFECTS OF END-OF-LIFE
PROPERTIES ON SEISMIC AND LOSS-OF-COOLANT-ACCIDENT
ANALYSES" (TAC NO. MF5330)

Dear Mr. Gresham:

By letter dated November 12, 2014 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML14324A015), Westinghouse Electric Company (Westinghouse) submitted for U.S. Nuclear Regulatory Commission (NRC) staff review Topical Report (TR) WCAP-16500-P/WCAP-16500-NP, Supplement 2, "Evolutionary Design Changes to CE 16X16 Next Generation Fuel and Method for Addressing the Effects of End-of-Life Properties on Seismic and Loss of Coolant Accident Analyses." By letter dated April 11, 2016, an NRC draft safety evaluation (SE) regarding our approval of WCAP-16500-P/WCAP-16500-NP, Supplement 2, was provided for your review and comments. By letter dated May 9, 2016, 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.

The NRC staff has found that TR WCAP-16500-P/WCAP-16500-NP, Supplement 2, is acceptable for referencing in licensing applications for nuclear power plants to the extent specified and under the limitations delineated in the TR and in the enclosed final SE. The final SE defines the basis for our acceptance of the TR.

NOTICE: Enclosure 2 and Attachment 2 transmitted herewith contains proprietary information. When separated from Enclosure 2 and Attachment 2, this document is decontrolled.
--

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.

If future changes to the NRC's regulatory requirements affect the acceptability of this TR, Westinghouse will be expected to revise the TR appropriately or justify its continued applicability for subsequent referencing. Licensees referencing this TR would be expected to justify its continued applicability or evaluate their plant using the revised TR.

Sincerely,

/RA/

Kevin Hsueh, Chief
Licensing Processes Branch
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)

~~OFFICIAL USE ONLY — PROPRIETARY INFORMATION~~

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.

If future changes to the NRC's regulatory requirements affect the acceptability of this TR, Westinghouse will be expected to revise the TR appropriately or justify its continued applicability for subsequent referencing. Licensees referencing this TR would be expected to justify its continued applicability or evaluate their plant using the revised TR.

Sincerely,

/RA/
Kevin Hsueh, Chief
Licensing Processes Branch
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)

DISTRIBUTION: See next page

ADAMS Accession Nos.: Pkg: ML16145A526; **Cover letter:** ML16154A027; **Encl 1:** ML16165A012; **Enc 2:** ML16154A247; **Attch 1:** ML16165A078; **Attch 2:** ML16154A242

OFFICE	NRR/DPR/PLPB	NRR/DPR/PLPB	DSS/SNPB	NRR/DPR/PLPB
NAME	ELenning	DHarrison	JDean	KHsueh
DATE	6/02/16	6/10/16	6/17/16	6/21/16

OFFICIAL RECORD

~~OFFICIAL USE ONLY — PROPRIETARY INFORMATION~~

DISTRIBUTION:

PUBLIC (Cover Letter, Enclosure 1 and Attachment 1 ONLY)

NON-PUBLIC (Enclosure 2 and Attachment 2)

RidsACRS_MailCTR

RidsNrrDss

RidsOgcMailCenter

RidsNrrLADHarrison

JDean

RidsNrrDpr

RidsNroOd

RidsResOd

KHsueh