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LTR-NRC-19-22

May 23, 2019

Subject: Transmittal of the NRC Approved Versions of WCAP-16260-P-A /WCAP-16260-NP-A, Revision 2, "The Spatially Corrected Inverse Count Rate (SCICR) Method for Subcritical Reactivity Measurement" Topical Report (EPID L-2017-TOP-0064)

Enclosed are the proprietary and non-proprietary versions of WCAP-16260-P-A /WCAP-16260-NP-A, Revision 2, "The Spatially Corrected Inverse Count Rate (SCICR) Method for Subcritical Reactivity Measurement" Topical Report (EPID L-2017-TOP-0064).

References:

1. Westinghouse letter, LTR-NRC-17-74, requesting staff review and approval of Topical Report (TR) WCAP-16260-P/ WCAP-16260-NP, Revision 2, "The Spatially Corrected Inverse Count Rate (SCICR) Method for Subcritical Reactivity Measurement," dated December 14, 2017 (ML17348B293)
2. NRC letter to Westinghouse titled, "Request for Additional Information RE: Westinghouse Electric Company WCAP-16260-P/WCAP-16260-NP, Revision 2, "The Spatially Corrected Inverse Count Rate Method for Subcritical Reactivity Measurement" Topical Report (EPID L-2017-TOP-0064)," dated August 9, 2018 (ML18207A226)
3. Westinghouse letter to NRC, LTR-NRC-18-63, titled, Response to Request for Additional Information RE: Westinghouse Electric Company WCAP-16260-P /WCAP-16260-NP, Revision 2, "The Spatially Corrected Inverse Count Rate (SCICR) Method for Subcritical Reactivity Measurement" Topical Report (EPID L-2017-TOP-0064), dated September 13, 2018
4. NRC letter to Westinghouse titled, Request for Additional Information RE: Westinghouse Electric Company WCAP-16260-P/WCAP-16260-NP, Revision 2, "The Spatially Corrected Inverse Count Rate (SCICR) Method for Subcritical Reactivity Measurement" Topical Report – Second Round (EPID NO. L-2017-TOP-0064), dated September 24, 2018 (ML18263A197)
5. Westinghouse letter to NRC, LTR-NRC-18-76, titled, Submittal of Response to Request for Additional Information – Second Set - RE: Westinghouse Electric Company WCAP-16260-P /WCAP-16260-NP, Revision 2, "The Spatially Corrected Inverse Count Rate (SCICR) Method for Subcritical Reactivity Measurement" Topical Report (EPID L-2017-TOP-0064), dated October 24, 2018
6. Meeting notice date December 10, 2018, titled, Closed Meeting to Discuss Responses to NRC Requests For RAIs for the Westinghouse Topical Report WCAP-16260-P/WCAP-16260-NP,

Revision 2, "The Spatially Corrected Inverse Count Rate (SCICR) Method For Subcritical Reactivity Measurement" (ML18345A247)

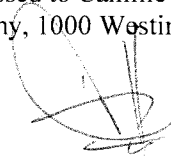
7. Westinghouse letter to NRC, LTR-NRC-19-2, titled, Submittal of Additional Information – Public Meeting - RE: Westinghouse Electric Company WCAP-16260-P /WCAP-16260-NP, Revision 2, "The Spatially Corrected Inverse Count Rate (SCICR) Method for Subcritical Reactivity Measurement" Topical Report (EPID L-2017-TOP-0064) (Proprietary/Non-Proprietary), dated January 8, 2019
8. NRC letter to Westinghouse titled, "Draft Safety Evaluation for Westinghouse Electric Company Topical Report WCAP-16260-P/WCAP-16260-NP, Revision 2, "The Spatially Corrected Inverse Count Rate (SCICR) Method for Subcritical Reactivity Measurement" (EPID: L-2017-TOP-0064)," dated February 4, 2019 (ML19022A135)
9. Westinghouse letter to NRC, LTR-NRC-19-12, titled, Submittal of Comments on Draft Safety Evaluation for Westinghouse Electric Company WCAP-16260-P/WCAP-16260-NP, Revision 2, "The Spatially Corrected Inverse Count Rate (SCICR) Method for Subcritical Reactivity Measurement" Topical Report (EPID L-2017-TOP-0064) (Proprietary/Non-Proprietary), dated March 8, 2019
10. NRC letter to Westinghouse titled, Final Safety Evaluation for Westinghouse Electric Company Topical Report WCAP-16260-P/WCAP-16260-NP, Revision 2, "The Spatially Corrected Inverse Count Rate Method for Subcritical Reactivity Measurement" (EPID: L-2017-TOP-0064)," dated April 12, 2019 (ML19077A259)

Via Reference 1, WCAP-16260-P/NP, Revision 2 was submitted for NRC review and approval. Reference 2 requested additional information in support of that review. Reference 3 provided Westinghouse's response to that first set of RAIs (Request for Additional Information). Reference 4 requested a second set of additional information to support the Electrical, Instrumentation and Controls Branch review of Reference 1. Reference 5 provided a response to that request. A public meeting was held on December 27, 2018 (Reference 6) to discuss outstanding issues with the NRC staff regarding the subject topical report. At that meeting, the NRC requested a list of the process controls to be used by Westinghouse for application of the SCICR methodology. Reference 7 provided that list. Reference 8 provided the draft Safety Evaluation for Westinghouse review and comment. Reference 9 provides the results of that review.

Reference 10 contained the final safety evaluation for the subject topical report and requested that the topical report be updated to reflect NRC's approval. The updated version of the topical report is provided herein. Please note, as discussed in Reference 9, a typographical error was identified in Reference 7. Specifically, in the table of process control documents in both the proprietary and the non-proprietary version, WCAP-16260 was erroneously referenced as WCAP-12620. This error has been entered into our corrective action program and the enclosed provides the correction to that typographical error.

This submittal contains proprietary information of Westinghouse Electric Company LLC ("Westinghouse"). In conformance with the requirements of 10 CFR Section 2.390, as amended, of the Nuclear Regulatory Commission's ("Commission's") regulations, we are enclosing with this submittal an Affidavit. The Affidavit sets forth the basis on which the information identified as proprietary may be withheld from public disclosure by the Commission.

Correspondence with respect to the proprietary aspects of the this submittal or the Westinghouse Affidavit should reference AW-19-4889 and should be addressed to Camille T. Zozula, Manager, Infrastructure & Facilities Licensing, Westinghouse Electric Company, 1000 Westinghouse Drive, Building 1, Suite 165, Cranberry Township, PA 16066.



Korey L. Hosack, Manager
Product Line Regulatory Support

cc: Ekaterina Lenning (NRC)
Dennis Morey (NRC)

Enclosures:

1. Affidavit AW-19-4889
2. Proprietary Information Notice and Copyright Notice
3. WCAP-16260-P-A, Revision 2, "The Spatially Corrected Inverse Count Rate (SCICR) Method for Subcritical Reactivity Measurement" (Proprietary), dated May 2019
4. WCAP-16260-NP-A, Revision 2, "The Spatially Corrected Inverse Count Rate (SCICR) Method for Subcritical Reactivity Measurement" (Non-Proprietary), dated May 2019

AFFIDAVIT

COMMONWEALTH OF PENNSYLVANIA:

COUNTY OF BUTLER:

- (1) I, Korey L. Hosack, have been specifically delegated and authorized to apply for withholding and execute this Affidavit on behalf of Westinghouse Electric Company LLC (Westinghouse).
- (2) I am requesting the proprietary portions of LTR-NRC-19-22 be withheld from public disclosure under 10 CFR 2.390.
- (3) I have personal knowledge of the criteria and procedures utilized by Westinghouse in designating information as a trade secret, privileged, or as confidential commercial or financial information.
- (4) Pursuant to 10 CFR 2.390, the following is furnished for consideration by the Commission in determining whether the information sought to be withheld from public disclosure should be withheld.
 - (i) The information sought to be withheld from public disclosure is owned and has been held in confidence by Westinghouse and is not customarily disclosed to the public.
 - (ii) Public disclosure of this proprietary information is likely to cause substantial harm to the competitive position of Westinghouse because it would enhance the ability of competitors to provide similar technical evaluation justifications and licensing defense services for commercial power reactors without commensurate expenses. Also, public disclosure of the information would enable others to use the information to meet NRC requirements for licensing documentation without purchasing the right to use the information.
- (5) Westinghouse has policies in place to identify proprietary information. Under that system, information is held in confidence if it falls in one or more of several types, the release of which might result in the loss of an existing or potential competitive advantage, as follows:

AFFIDAVIT

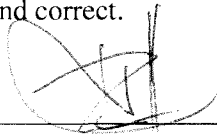
- (a) The information reveals the distinguishing aspects of a process (or component, structure, tool, method, etc.) where prevention of its use by any of Westinghouse's competitors without license from Westinghouse constitutes a competitive economic advantage over other companies.
 - (b) It consists of supporting data, including test data, relative to a process (or component, structure, tool, method, etc.), the application of which data secures a competitive economic advantage (e.g., by optimization or improved marketability).
 - (c) Its use by a competitor would reduce his expenditure of resources or improve his competitive position in the design, manufacture, shipment, installation, assurance of quality, or licensing a similar product.
 - (d) It reveals cost or price information, production capacities, budget levels, or commercial strategies of Westinghouse, its customers or suppliers.
 - (e) It reveals aspects of past, present, or future Westinghouse or customer funded development plans and programs of potential commercial value to Westinghouse.
 - (f) It contains patentable ideas, for which patent protection may be desirable.
- (6) The attached documents are bracketed and marked to indicate the bases for withholding. The justification for withholding is indicated in both versions by means of lower case letters (a) through (f) located as a superscript immediately following the brackets enclosing each item of information being identified as proprietary or in the margin opposite such information. These lower case letters refer to the types of information Westinghouse customarily holds in confidence identified in Sections (5)(a) through (f) of this Affidavit.

AFFIDAVIT

I declare that the averments of fact set forth in this Affidavit are true and correct to the best of my knowledge, information, and belief.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on: 2090523

A handwritten signature in black ink, appearing to read 'K. Hosack', is written over a horizontal line.

Korey L. Hosack, Manager
Product Line Regulatory Support

PROPRIETARY INFORMATION NOTICE

Transmitted herewith are the proprietary and non-proprietary versions of a document, furnished to the NRC in connection with the review of WCAP-16260-P-A /WCAP-16260-NP-A, Revision 2, "The Spatially Corrected Inverse Count Rate (SCICR) Method for Subcritical Reactivity Measurement."

In order to conform to the requirements of 10 CFR 2.390 of the Commission's regulations concerning the protection of proprietary information so submitted to the NRC, the information which is proprietary in the proprietary versions is contained within brackets, and where the proprietary information has been deleted in the non-proprietary versions, only the brackets remain (the information that was contained within the brackets in the proprietary versions having been deleted). The justification for claiming the information so designated as proprietary is indicated in both versions by means of lower case letters (a) through (f) located as a superscript immediately following the brackets enclosing each item of information being identified as proprietary or in the margin opposite such information. These lower case letters refer to the types of information Westinghouse customarily holds in confidence identified in Sections (4)(ii)(a) through (4)(ii)(f) of the Affidavit accompanying this transmittal pursuant to 10 CFR 2.390(b)(1).

COPYRIGHT NOTICE

The reports transmitted herewith each bear a Westinghouse copyright notice. The NRC is permitted to make the number of copies of the information contained in these reports which is 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 2.390 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 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 room in Washington, DC and in local 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.