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Subject: Submittal of the Westinghouse **eVinci**TM Micro-Reactor Group 2 White Papers for Pre-Application Engagement

I am pleased to submit on behalf of Westinghouse Electric Company LLC (Westinghouse) the six enclosed **eVinci** micro-reactor white papers. Specifically, this submittal includes the following topics:

- Regulatory Analysis (Enclosure 2)
- Deployment Model (Enclosure 3)
- Safeguards Information Program Strategy (Enclosure 4)
- Test and Analysis Process for Design and Development (Enclosure 5)
- Functional Containment and Mechanistic Source Term (Enclosure 6)
- Composite Material Qualification and Testing (Enclosure 7)

This is the second group of white papers to be submitted to the NRC to support on-going pre-application discussions. Future groups of papers on additional **eVinci** micro-reactor topics will be submitted to the NRC throughout 2022, as communicated in the Regulatory Engagement Plan submitted to the NRC on November 22, 2021.

The goal of these white papers is to facilitate pre-application discussions and receive regulatory feedback on the **eVinci** micro-reactor design and methodologies to reduce future license risk for the project. To support this goal, Westinghouse seeks NRC review and written feedback on these white papers by June 30, 2022.

The white papers will continue to evolve as the facility design progresses through the preliminary and final design phases. Therefore, Westinghouse will inform the NRC staff when new significant revisions to these documents become available.

This submittal contains proprietary information of 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 (Enclosure 1). 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 this submittal or the Westinghouse Affidavit should reference AW-22-014 and should be addressed to Anthony J. Schoedel, Manager, Advanced Reactors Licensing Engineering, Westinghouse Electric Company, 1000 Westinghouse Drive, Building 1, Cranberry Township, PA 16066.

Anthony J. Schoedel

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Enclosures:

1. Affidavit AW-22-014
2. EVR-LIC-G0-002, "Regulatory Analysis"
3. EVR-LIC-G0-003, "Deployment Model"
4. EVR-SEC-G0-001, "Safeguards Information Program Strategy"
5. EVR-PGD-GL-001, "Test and Analysis Process for Design and Development"
6. EVR-SAR-GL-003, "Functional Containment and Mechanistic Source Term"
7. EVR-PLD-GL-001, "Composite Material Qualification and Testing"