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EVR_LTR_220092

June 30, 2022

Subject: Submittal of the Westinghouse **eVinci™** Micro-Reactor Wave 3 White Papers for Pre-Application Engagement

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

- Code Verification and Validation Plan for Design Basis Safety Analysis (Enclosure 2)
- Advanced Logic System v2 Platform Licensing Strategy (Enclosure 3)
- Core Component ASME Design Qualification Strategy (Enclosure 4)
- Emergency Planning Zone Sizing Methodology (Enclosure 5)
- Preliminary Assessment Against 10 CFR 73.55 Requirements (Enclosure 6)
- Heat Pipe Design, Qualification and Testing (Enclosure 7)
- Nuclear Design (Enclosure 8)
- U.S. Transportation Strategy (Enclosure 9)

This is the third wave 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 September 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.

Enclosure 6 transmitted herewith contain(s) Security-Related - Sensitive Unclassified Non-Safeguards Information (SUNSI) subject to Withholding under 10 CFR 2.390.

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-22-029 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

Anthony J. Schoedel, Manager
Advanced Reactors Licensing Engineering

cc: Mohamed Shams (NRC)
Brian Smith (NRC)
William Kennedy (NRC)
Amy Cubbage (NRC)
Donna Williams (NRC)
Michael Orenak (NRC)

Enclosures:

1. Affidavit AW-22-029
2. EVR-SAR-GL-004, "Code Verification and Validation Plan for Design Basis Safety Analysis"
3. EVR-ACS-GL-001, "Advanced Logic System v2 Platform Licensing Strategy"
4. EVR-PGD-GL-003, "Core Component ASME Design Qualification Strategy"
5. EVR-PGD-GL-005, "Emergency Planning Zone Sizing Methodology"
6. EVR-SEC-G0-002, "Preliminary Assessment Against 10 CFR 73.55 Requirements"
7. EVR-RXS-GL-001, "Heat Pipe Design, Qualification and Testing"
8. EVR-RXS-GL-002, "Nuclear Design"
9. EVR-TPS-G0-002, "U.S. Transportation Strategy"