



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

April 22, 2022

MEMORANDUM TO: William B. Kennedy, Acting Chief  
Advanced Reactors Licensing Branch 1  
Division of Advanced Reactors and Non-power  
Production and Utilization Facilities  
Office of Nuclear Reactor Regulation

FROM: Michael Orenak, Project Manager *Michael Orenak* Signed by Orenak, Michael  
Advanced Reactor Licensing Branch 1 on 04/22/22  
Division of Advanced Reactors and Non-power  
Production and Utilization Facilities  
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF THE MARCH 29, 2022, PUBLIC MEETING TO  
DISCUSS THE SECOND SET OF WESTINGHOUSE EVINCI  
WHITE PAPERS (EPID L-2021-LRM-0076)

On March 29, 2022, an observation public meeting was held to provide an initial high-level overview of six white papers related to the Westinghouse Electric Company (Westinghouse) eVinci reactor design to the U.S. Nuclear Regulatory Commission (NRC) staff. This is the second set of white papers submitted to the NRC staff. The first set was submitted on December 9, 2021, and the NRC staff feedback was issued on March 25, 2022. Those documents are available at Agencywide Documents Access and Management System (ADAMS) Accession Nos. ML21344A063 and ML22059A483, respectively. Westinghouse submitted the six white papers on March 31, 2022, and they are available in ADAMS at Accession No. ML22090A126.

The public meeting notice and agenda, dated March 7, 2022, are available in ADAMS at Accession No. ML22067A101. Westinghouse's presentation slides, dated March 29, 2022, are available in ADAMS at Accession No. ML22083A173. Enclosure 1 provides the list of meeting attendees.

#### Meeting Summary

After introductions, Westinghouse provided a presentation that discussed a high-level overview of the six white papers and specific questions for each white paper that they would like the NRC staff to answer. During the presentation, the NRC staff had several questions. On slide 5, regarding the Regulatory Analysis white paper, the NRC staff asked for more details on the feedback requested for exemptions. The NRC staff stated that it will be difficult to provide useful feedback without having specific detailed eVinci design information, so only high-level preliminary feedback can be provided. Westinghouse responded that they would like the NRC staff to provide feedback on any subject that is new or that the NRC staff foresees that an exemption can't be provided.

For slide 6, regarding the Deployment Model white paper, the NRC staff asked if Westinghouse will be engaging other relevant governmental organizations for their applications. Westinghouse

responded that they are aware of the other governmental organizations that they must coordinate with, but the white paper will focus on the NRC's areas of responsibility.

For slide 8, regarding the Test and Analysis Process for Design and Development white paper, the NRC staff asked, and Westinghouse confirmed, that the white paper's subject will be under the framework of the Licensing Modernization Project (LMP), meaning Westinghouse will use the information contained in NEI 18-04, "NEI 18-04 Rev 1 Risk-Informed Performance-Based Technology Guidance for Non-Light Water Reactors" (ADAMS Accession No. ML19241A336).

For slide 9, regarding the Functional Containment and Mechanistic Source Term white paper, the NRC staff asked if Westinghouse plans on addressing radionuclide sources just from the reactor, or all sources on the site. Westinghouse responded that they are considering all activated products in the reactor. The NRC staff also asked if the mechanistic source term will only be developed for accidents and only for the LMP process, or would it be used for other purposes. Westinghouse responded that the mechanistic source term will be only for accidents but stated that it will be general enough to be modified for other plant states.

For slide 10, regarding the Composite Material Qualification and Testing white paper, the NRC staff commented that the NRC staff has not reviewed or approved of the ceramic matrix composite (CMC) portion of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel (BPV) Code, therefore, feedback may be limited. The NRC staff then stated that the ASME has initiated a task group to evaluate ASME, BPV Code rules for CMC qualification and design and inquired how Westinghouse is interacting with the group. Westinghouse responded that they are aware of the task group, and that Westinghouse is also working with a CMC expert from the U.S. Department of Energy's National Labs.

There were no questions from public at the end of the meeting.

Project No. 99902079

Enclosure:  
List of Attendees

CONTACT: Michael Orenak, NRR/DANU/UAL1  
301-415-3229

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 SECOND SET OF WESTINGHOUSE EVINCI WHITE PAPERS  
 DATED: APRIL 22, 2022

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**ADAMS Accession Nos.: Pkg: ML22094A071, ML22094A070**

**NRR-106**

OFFICE	NRR/DANU/UAL1/PM	NRR/DANU/UAL1/LA	NRR/DANU/UTB1/BC
NAME	MOrenak	DGreene	MHayes
DATE	4/4/2022	4/8/2022	4/13/2022
OFFICE	NRR/DANU/UAL1/BC		
NAME	WKennedy		
DATE	4/22/2022		

**OFFICIAL RECORD COPY**

**List of Attendees**

**U.S. NUCLEAR REGULATORY COMMISSION**  
**PUBLIC MEETING TO DISCUSS THE SECOND SET OF**  
**WESTINGHOUSE EVINCI WHITE PAPERS**  
**TUESDAY, MARCH 29, 2022**

Name	Organization
Michael Orenak	U.S. Nuclear Regulatory Commission (NRC)
Ben Adams	NRC
Alex Chereskin	NRC
Tim Drzewiecki	NRC
Michelle Hayes	NRC
Meg Audrain	NRC
Michelle Hart	NRC
Ian Jung	NRC
William Kennedy	NRC
Alex Siwy	NRC
Darryl Parson	NRC
Jason Schaperow	NRC
Bernie White	NRC
Boyce Travis	NRC
Anthony Schoedel	Westinghouse Electric Company (Westinghouse)
Amanda Spalding	Westinghouse
Paul Wick	Westinghouse
Matt Smith	Westinghouse
Mike Patterson	Westinghouse
Alan MacDonald	Westinghouse
Jim Scobel	Westinghouse
Jill Monahan	Westinghouse
Pat Kopfle	Westinghouse
Joe Halackna	Westinghouse
Vefa Kucukboyaci	Westinghouse
Mike Corletti	Westinghouse
Doug Weaver	Westinghouse
Korey Hosack	Westinghouse
Jana Bergman	Curtiss-Wright