



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

September 30, 2024

Mr. Anthony Schoedel, Manager
Advanced Reactors Licensing Engineering
Westinghouse Electric Company, LLC.
51 Bridge Street
Pittsburgh, PA 15223

SUBJECT: WESTINGHOUSE ELECTRIC COMPANY, LLC. - SAFETY EVALUATION FOR
TOPICAL REPORTS RELATED TO THE EVINCI™ REACTOR ADVANCED
LOGIC SYSTEM® VERSION 2 PLATFORM AND THE ADVANCED LOGIC
SYSTEM® VERSION 2 DEVELOPMENT PROCESS (EPID: L-2022-TOP-0059
AND L-2022-TOP-0060)

Dear Mr. Schoedel:

By letter dated December 21, 2022 (Agencywide Documents Access and Management System, Accession Number, ML22355A230), Westinghouse Electric Company, LLC. (WEC) submitted the “Advanced Logic System® [(ALS)] v2 [(Version 2)] Platform Topical Report,” the “Advanced Logic System® v2 Development Process Topical Report,” and an initial set of supporting documents for the U.S. Nuclear Regulatory Commission (NRC) staff’s safety evaluation (SE). By emails sent on February 3, 2023 (ML23024A227 (Package)), and March 3, 2023 (ML23061A157 (Package)), respectively, the NRC staff accepted the subject topical reports (TRs) for review. WEC also provided supplemental information to support this SE (ML23023A131 (Package)).

The NRC staff’s SE for the TRs is enclosed. Enclosure 1 is the redacted version of the SE and will be made publicly available. Enclosure 2, contains proprietary information and access to this document will be controlled consistent with the regulations in Title 10 of the *Code of Federal Regulations*, section 2.390 “Public inspections, exemptions, requests for withholding.”

The NRC staff concluded that that the ALS v2 field programmable gate array-based platform, as defined by its standardized circuit boards, design features, and development processes, supports meeting the applicable regulatory requirements for plant-specific use within safety-related instrumentation and control systems subject to the limitations documented in the SE. The NRC staff requests that WEC submit an accepted proprietary and non-proprietary version of the ALS v2 Platform TR within 3 months of receipt of this letter. The accepted version shall incorporate this letter and the enclosed SE.

Enclosure 2 to this letter contains
proprietary information. When separated
from Enclosure 2, this letter is
DECONTROLLED.

A. Schoedel

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If you have any questions regarding this matter, please contact Patrick Boyle at (301) 415-3936 or via email at patrick.boyle@nrc.gov.

Sincerely,

Stephen Philpott, Acting Chief
Advanced Reactor Licensing Branch 2
Division of Advanced Reactors and Non-Power
Production and Utilization Facilities
Office of Nuclear Reactor Regulation

Project No.: 99902079

Enclosures:
As stated

cc: Westinghouse eVinci GovDelivery
schoedaj@westinghouse.com

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ADAMS Accession Nos.:

Package: ML24236A061

Letter: ML24236A077

Enclosure 1: ML24236A142

Enclosure 2: ML24236A211 (Proprietary)

***SE Only**

NRR-106

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