

July 02, 2024

Mr. Mohammed Shams
Director, Division of Advanced Reactors and Non-Power Production and Utilization Facilities (DANU)
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Subject: Request for NRC Endorsement of NEI 24-05 Revision 0, “An Approach for Risk-Informed Performance-Based Emergency Planning”

Project Number: 689

Dear Mr. Shams:

On behalf of the nuclear energy industry, the Nuclear Energy Institute (NEI)¹ is submitting to the U.S. Nuclear Regulatory Commission (NRC) the attached revision 0 of NEI 24-05, “An Approach for Risk-Informed Performance-Based Emergency Planning,” for endorsement. NEI 24-05 is part of the overall industry, Department of Energy, and NRC Licensing Modernization Project (LMP) program, and extends the work from NEI 18-04, “Risk-Informed Performance-Based Technology Inclusive Guidance for Non-Light Water Reactor Licensing Basis Development,” by providing a systematic and technology-neutral methodology for the development of emergency plans in accordance with 10 CFR 50.160, “Emergency preparedness for small modular reactors, non-light-water reactors, and non-power production or utilization facilities.” The document was jointly developed by Argonne National Laboratory and NEI’s Advanced Reactor Regulatory Task Force.

The guidance in NEI 24-05 establishes an approach that leverages the analyses, outcomes, and insights of the methodology endorsed in Regulatory Guide 1.233, “Guidance for a Technology-Inclusive, Risk-Informed, and Performance-Based Methodology to Inform the Licensing Basis and Content of Applications for Licenses, Certifications, and Approvals for Non-Light-Water Reactors” (ML20091L698). NEI and the nuclear industry view the development of NEI 24-05 and NRC endorsement as important steps towards the efficient and predictable licensing of advanced reactor facilities.

¹ The Nuclear Energy Institute (NEI) is responsible for establishing unified policy on behalf of its members relating to matters affecting the nuclear energy industry, including the regulatory aspects of generic operational and technical issues. NEI’s members include entities licensed to operate commercial nuclear power plants in the United States, nuclear plant designers, major architect and engineering firms, fuel cycle facilities, nuclear materials licensees, and other organizations involved in the nuclear energy industry.

If you have any questions or require additional information, please contact me, or David Young at dly@nei.org.

Sincerely,



Kati R. Austgen
Sr. Project Manager, New Nuclear

Attachment

C: Ms. Andrea Veil, NRR, NRC
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