

January 31, 2024

Mr. Mohamed Shams

Director, Division of Advanced Reactors and Non-Power Production and Utilization Facilities

Office of Nuclear Reactor Regulation

U.S. Nuclear Regulatory Commission

Washington, DC 20555-0001

Subject: Transmittal of NEI 22-05 Revision 0, "Technology Inclusive Risk Informed Change Evaluation (TIRICE) Guidance for the Evaluation of Changes to Facilities Utilizing NEI 18-04 and NEI 21-07"

Project Number: 689

Dear Mr. Shams:

The Nuclear Energy Institute (NEI)¹, on behalf of its members, is pleased to submit for endorsement to the Nuclear Regulatory Commission (NRC) the attached Revision 0 of NEI 22-05, "Technology Inclusive Risk Informed Change Evaluation (TIRICE) Guidance for the Evaluation of Changes to Facilities Utilizing NEI 18-04 and NEI 21-07." This document reflects the work that industry's Advanced Reactor Regulatory Task Force has done in close collaboration with the Licensing Modernization Project (LMP) and Technology Inclusive Content of Application Project (TICAP), which were led by Southern Company and cost shared by the U.S. Department of Energy, to develop the guidance over the past two years.

This work incorporates the extensive interactions between industry and NRC staff including tabletop exercises; feedback received (ML23107A257) on NEI 22-05, Revision A, (ML23083B462); and the discussions during the public meeting on May 9, 2023. The summary of the discussion during that public meeting is documented as ML23297A194.

The guidance and associated criteria in NEI 22-05 are intended to take the place of 10 CFR 50.59 for certain nuclear power reactors with a safety analysis based on 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

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.

Non-Light-Water Reactors.” (ML20091L698) The guidance and criteria would be invoked by a license condition in combination with an exemption, in whole or in part, to 10 CFR 50.59 - predicated on the same logic as 10 CFR 50.59. 10 CFR 50.59 defines the boundary between those proposed changes to the facility that can be implemented by the licensee without prior NRC approval and those that must receive NRC review and approval before implementation.

Thank you for your time and attention to this important matter. Please contact me if you have any questions or require additional information.

Sincerely,



Benjamin Holtzman
Director, New Nuclear

Attachment: NEI 22-05 Revision 0, “Technology Inclusive Risk Informed Change Evaluation (TIRICE) Guidance for the Evaluation of Changes to Facilities Utilizing NEI 18-04 and NEI 21-07”

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