

TX0-REG-LTR-0069

THE ENCLOSURES TO THIS LETTER CONTAIN SECURITY-RELATED INFORMATION – WITHHOLD IN ACCORDANCE WITH 10 CFR 2.390

ELECTRONIC DELIVERY

June 2, 2025

Director, Office of Nuclear Material Safety and Safeguards U. S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, DC 20555-0001

- References: 1) Docket No. 70-7027
 - 2) TRISO-X letter from Jennifer Wheeler to Director, Office of Nuclear Material Safety and Safeguards, "TRISO-X Fuel Fabrication Facility License Application Submittal," dated April 5, 2022
 - TRISO-X letter from Jennifer Wheeler to Director, Office of Nuclear Material Safety and Safeguards, "Supplemental Information for the TRISO-X Fuel Fabrication Facility License Application Review (Part 2)," dated January 31, 2025
 - 4) NRC letter from Matthew Bartlett, Senior Project Manager, Fuel Facility Licensing Branch, to Jennifer K. Wheeler, "Request for Additional Information as Set Eleven for the Chemical Safety Information Regarding the TRISO-X, LLC License Application for a Fuel Fabrication Facility (Enterprise Project Identification Number L-2022-NEW-0005)," dated May 1, 2025
 - 5) Closed Meeting Announcement for Discussion with TRISO-X on Chemical Safety RAIs, dated May 15, 2025
 - 6) Email from Matt Bartlett, NRC, to Jennifer Wheeler, TRISO-X, "NRC Extension of the Chemical Safety RAI Response Due Dates from May 21 to May 30," dated May 16, 2025
 - 7) Email from Matt Bartlett, NRC, to Jennifer Wheeler, TRISO-X, "NRC Extension of the Chemical Safety RAI Response Due Dates from May 30 to June 15," dated May 30, 2025

Subject: Response to Request for Additional Information Set 11 (Chemical Safety) for the TRISO-X License Application

TRISO-X, LLC (TRISO-X) hereby submits information regarding the review of the License Application for the TRISO-X Fuel Fabrication Facility (References 2 and 3). The enclosed response is for the RAI set transmitted by letter dated May 1, 2025 (Reference 4). TRISO-X and

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NRC held additional discussions in meetings on May 15, 2025 (Reference 5), May 27, 2025, and by email dated May 29, 2025, to develop the final response (see Enclosure). The due date for the RAI response was extended to June 15, 2025, by emails dated May 16, 2025 (Reference 6) and May 30, 2025 (Reference 7).

Request for Withholding

Portions of the enclosed submittal contain information that TRISO-X requests be withheld from public disclosure. The following regulations and guidance were consulted to develop the document markings and specific withholding requests as noted in the description of each enclosure's contents.

- 10 CFR 2.390, Public inspections, exemptions, requests for withholding
- NRC Regulatory Issue Summary 2005-31, Revision 1, Control of Security-Related Sensitive Unclassified Non-Safeguards Information Handled by Individuals, Firms, and Entities Subject to NRC Regulation of the Use of Source, Byproduct, and Special Nuclear Material

Summary of this Submittal

The following Enclosure is included with this letter.

Enclosure – Response to Request for Additional Information Set 11 (Chemical Safety) (Security-Related Information)

If there are questions or if additional information is required, please contact me at (865) 850-0893 or jwheeler@triso-x.com.

Sincerely,

ennifer Wheeler

Jennifer Wheeler Vice President, Regulatory Affairs

TRISO-X, LLC 151 Lafayette Drive, Suite 300 Oak Ridge, TN 37830

Copy: Mr. Matthew Bartlett, US NRC, NMSS TRISO-X Regulatory Records File

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