



TX0-REG-LTR-0079

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

ELECTRONIC DELIVERY

August 27, 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
 - 3) 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 1)," dated December 30, 2024
 - 4) 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
 - 5) NRC letter from Matthew Bartlett, Senior Project Manager, Fuel Facility Licensing Branch, to Jennifer K. Wheeler, "Request for Additional Information as Set 17 for the Integrated Safety Analysis Summary Information Regarding the TRISO-X, LLC License Application for a Fuel Fabrication Facility (Enterprise Project Identification Number L-2022-NEW-0005)," dated August 22, 2025

Subject: **Response to Request for Additional Information Set 17 (Integrated Safety Analysis) 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, 3, and 4). The enclosed responses are for the RAI set transmitted by letter dated August 22, 2025 (Reference 5).

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

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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 – Set 17 ISA RAI Responses (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,



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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