



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

TX0-REG-LTR-0091

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

ELECTRONIC DELIVERY

November 5, 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 to NRC, "TRISO-X Fuel Fabrication Facility License Application Submittal," dated April 5, 2022
 - 3) TRISO-X letter to NRC, "Supplemental Information for the TRISO-X Fuel Fabrication Facility License Application Review (Part 1)," dated December 30, 2024
 - 4) TRISO-X letter to NRC, "Supplemental Information for the TRISO-X Fuel Fabrication Facility License Application Review (Part 2)," dated January 31, 2025
 - 5) NRC letter to TRISO-X, "Request for Additional Information as Set Eighteen for the Structural Information Regarding the TRISO-X, LLC License Application for a Fuel Fabrication Facility (Enterprise Project Identification Number L-2022-NEW-0005)," dated August 1, 2025
 - 6) TRISO-X letter to NRC, "Response to Request for Additional Information Set 18 (Structural) for the TRISO-X License Application," dated August 28, 2025

Subject: **Supplemental Information for the Response to Request for Additional Information Set 18 (Structural)**

TRISO-X, LLC (TRISO-X) hereby submits supplemental information regarding the review of the License Application for the TRISO-X Fuel Fabrication Facility (References 2, 3, and 4). The NRC issued RAI Set 18 by letter dated August 1, 2025 (Reference 5) and TRISO-X responded by letter dated August 28, 2025 (Reference 6). This supplemental information provides updated responses to structural RAI-7 and RAI-8.

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 – Supplemental Information for the Response to Request for Additional Information Set 18 (Structural) (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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