

TX0-REG-LTR-0090

ELECTRONIC DELIVERY

October 29, 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) NRC Letter to TRISO-X, "Request for Additional Information as Set 15 for the Criticality Safety Information Regarding the TRISO-X, LLC License Application for a Fuel Fabrication Facility (Enterprise Project Identification Number L-2022-NEW-0005)," dated July 3, 2025
 - 5) TRISO-X Letter to NRC, "Response to Request for Additional Information Set 15 (Nuclear Criticality Safety) for the TRISO-X License Application," dated July 24, 2025
 - 6) Email from NRC to TRISO-X, "Technical Call for 2 Criticality Issues," dated October 21, 2025

Subject: **Changes to License Chapter 5 Nuclear Criticality 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 NRC issued RAI Set 15 by letter dated July 3, 2025 (Reference 4) and TRISO-X responded by letter dated July 24, 2025 (Reference 5). By email dated October 21, 2025 (Reference 6), the NRC requested a meeting to discuss two nuclear criticality safety issues identified. The NRC and TRISO-X held a meeting on October 28, 2025, which resulted in agreement on changes to the TRISO-X License Chapter 5, Nuclear Criticality Safety. The enclosure to this letter contains the agreed upon changes.

Request for Withholding

None. This submittal contains public information.

Summary of this Submittal

The following Enclosure is included with this letter.

Enclosure – Changes to License Chapter 5 Nuclear Criticality Safety

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

Sincerely,

A handwritten signature in cursive script that reads "Jennifer Wheeler".

Jennifer Wheeler
Vice President, Regulatory Affairs

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