



TRISO-X, LLC
801 Thompson Avenue
Rockville, MD 20852
+1 301.358.5600

TX0-REG-LTR-0036

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

ELECTRONIC DELIVERY

February 29, 2024

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, "Additional Information Supporting the Response to RSI Question 8.1 Concerning the Acceptance Review of the TRISO-X Fuel Fabrication Facility License Application," dated November 16, 2022
 - 4) NRC letter from Matthew Bartlett to Jennifer K. Wheeler, Director, Regulatory Affairs, "Acceptance of the TRISO-X, LLC License Application for a Fuel Fabrication Facility (Enterprise Project Identification Number L-2022-NEW-0005 and L-2022-LNE-0002)," dated November 18, 2022
 - 5) Email from Jennifer Wheeler to Matthew Bartlett, "Update on status of Elec/I&C information (PROPRIETARY)," dated August 31, 2023

Subject: **Submittal of Supplemental Information for the Electrical/I&C Review of IROFS for the TRISO-X License Application**

TRISO-X, LLC (TRISO-X) hereby submits supplemental information for the Electrical/Instrumentation & Controls (I&C) review of items relied on for safety (IROFS) for the License Application for the TRISO-X Fuel Fabrication Facility (Reference 2). By letter dated November 16, 2022 (Reference 3), TRISO-X committed to providing procedural methods and detailed design documentation for IROFS that require electrical power and/or instrumentation and controls. The NRC accepted the TRISO-X license application for review by letter dated November 18, 2022 (Reference 4). TRISO-X provided an update on the status of the IROFS-related electrical/I&C design information to the NRC by email dated August 31, 2023 (Reference 5). A technical audit meeting with NRC staff was held in Oak Ridge, TN on February 14, 2024, to review the overall design philosophy and status of electrical/I&C IROFS design package development. The

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

~~WHEN DETACHED – HANDLE THIS PAGE AS DECONTROLLED~~

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

enclosed submittal contains information that is intended to satisfy the commitments made by letter dated November 16, 2022 (Reference 3).

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

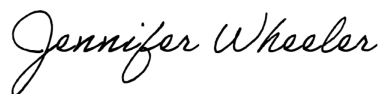
The following Enclosures are included with this letter.

Enclosure 1 – Updated Integrated Safety Analysis Summary Section 2.3, Site Auxiliary and Utility Systems, and Changes to Section 4.4, Management Measures for IROFS (Security-Related Information)

Enclosure 2 – List of Electrical/I&C IROFS Design Package Documents (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 K. Wheeler, P.E.
Vice President, Regulatory Affairs

TRISO-X, LLC
801 Thompson Avenue
Rockville, MD 20852

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

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

~~WHEN DETACHED – HANDLE THIS PAGE AS DECONTROLLED~~
