



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
WASHINGTON, D.C. 20555-0001

March 25, 2024

Jennifer K. Wheeler, Director
Regulatory Affairs
TRISO-X, LLC
801 Thompson Avenue
Rockville, MD 20852

SUBJECT: SET EIGHT CONTAINS A PROGRAMMATIC REQUEST FOR ADDITIONAL INFORMATION FOR THE INTEGRATED SAFETY ANALYSIS REVIEW REGARDING THE TRISO-X, LLC LICENSE APPLICATION FOR A NEW FUEL FABRICATION FACILITY (ENTERPRISE PROJECT IDENTIFICATION NUMBER L-2022-NEW-0005)

Dear Jennifer K. Wheeler:

The U.S. Nuclear Regulatory Commission (NRC) staff has developed a programmatic request for additional information (RAI) provided as set eight to support the Integrated Safety Analysis review of the TRISO-X, LLC safety and safeguards license application. Your application for a new fuel fabrication facility located in Oak Ridge, Tennessee was submitted via letter dated April 5, 2022 (Agencywide Documents Access and Management System [ADAMS] Accession No. ML22101A200) and supplemented by letters dated October 13, 2022 (ML22286A144), November 4, 2022 (ML22308A251) and February 29, 2024 (ML24060A239).

Please consider providing your draft response to the RAI in advance of the formal response letter and holding a meeting with us to ensure mutual understanding of the response. The RAI response is due within 30 days of the date of this letter.

In accordance with Title 10 of the *Code of Federal Regulations*, Part 2 "Agency Rules of Practice and Procedure," a copy of this letter and the public enclosures will be available electronically for public inspection in the NRC Public Document Room (PDR) or from the Publicly Available Records component of the NRC's ADAMS. The ADAMS database is accessible from the NRC website at <http://www.nrc.gov/reading-rm/adams.html>. The PDR is open by appointment. To make an appointment to visit the PDR, please send an email to PDR.Resource@nrc.gov or call 1-800-397-4209 or 301-415-4737, between 8 a.m. and 4 p.m. eastern time (ET), Monday through Friday, except Federal holidays.

Enclosure transmitted herewith contains security related information. When separated from the enclosure, this letter is decontrolled.

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J. Wheeler

2

If you have any questions regarding this communication, please contact me at 301-415-7154, or via email to Matthew.Bartlett@nrc.gov.

Sincerely,



Signed by Bartlett, Matthew
on 03/25/24

Matthew Bartlett, Senior Project Manager
Fuel Facility Licensing Branch
Division of Fuel Management
Office of Nuclear Material Safety and
Safeguards

Docket No. 07007027

Enclosure:
RAI Integrated Safety Analysis (Non-public)

cc: triso@listmgr.nrc.gov

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3

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DOCUMENT DATE: March 25, 2024

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