



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

October 25, 2023

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

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION SET 5 FOR THE RADIOLOGICAL AND CHEMICAL REVIEW REGARDING THE TRISO-X, LLC LICENSE APPLICATION FOR A NEW FUEL FABRICATION FACILITY (ENTERPRISE PROJECT IDENTIFICATION NUMBER L-2022-NEW-0005)

Dear Jennifer Wheeler:

The U.S. Nuclear Regulatory Commission (NRC) staff has developed the fifth set of requests for additional information (RAIs) to support the radiological and chemical reviews of the TRISO-X, LLC safety and safeguards license application. Your application for a new fuel fabrication facility located in Oak Ridge, TN was submitted via letter dated April 5, 2022 (Agencywide Documents Access and Management System (ADAMS) Accession Number ML22101A200) and supplemented by letters dated October 13, 2022 (ML22286A144) and November 4, 2022 (ML22308A251).

Please consider providing your draft responses to the RAIs in advance of the formal response letter and holding a meeting with us to ensure mutual understanding of the responses. The RAI responses are due within 45 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 3 transmitted herewith contains security related information. When separated from the enclosure 3, this letter and enclosures 1 and 2 are decontrolled.

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 10/10/23

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

Docket No. 07007027

Enclosures:

1. RAI Radiological
2. RAI Chemical (Public)
3. RAI Chemical (Non-public)

cc: triso@listmgr.nrc.gov

REQUEST FOR ADDITIONAL INFORMATION SET 5 FOR THE RADIOLOGICAL AND CHEMICAL REVIEW REGARDING THE TRISO X, LLC LICENSE APPLICATION FOR A NEW FUEL FABRICATION FACILITY DATE October 25, 2023

DISTRIBUTION: Docket No. 07007027

JHammelman, NMSS/DFM/CTCFB

EGoldfeiz, NMSS/DFM/NARAB

CSafford, NMSS/DFM

SHelton, NMSS/DFM

ADAMS Accession No.: ML23265A261; ML23265A262

OFFICE	NMSS/DFM/FFLB	NMSS/DFM/FFLB	NSIR/DPR	NMSS/DFM/FFLB
NAME	SPoy	SPMBartlett	MBJGoodridge	JGSLav
DATE	Sep 26, 2023	Oct 3, 2023	Oct 3, 2023	Oct 7, 2023
OFFICE	NMSS/DFM/FFLB			
NAME	MBartlett	MB		
DATE	Oct 10, 2023			

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