



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

September 29, 2023

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

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION SET 4 FOR THE  
GEOTECHNICAL AND HYDROLOGY 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 fourth set of requests for additional information (RAIs) to support the geotechnical and hydrology review 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 in advance of the formal response letter and holding a meeting to ensure mutual understanding of the responses. The RAI responses are due within 45 days of the date of this letter.

We continue to anticipate completing our review by June 2025, as previously stated in our acceptance review dated November 18, 2022 (ML22320A110). The proposed completion date could change depending on submittal of supplements to the application, the status of the Electrical/I&C review, the resolution of RAIs, findings of our technical review, or other factors. We will promptly communicate any significant changes to this schedule.

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 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. ADAMS 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](mailto: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.

J. Wheeler

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

Sincerely,

A handwritten signature in cursive script that reads "Matthew Bartlett".

Signed by Bartlett, Matthew  
on 09/29/23

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 Geotechnical
2. RAI Hydrology

cc: [triso@listmgr.nrc.gov](mailto:triso@listmgr.nrc.gov)

REQUEST FOR ADDITIONAL INFORMATION SET 4 FOR THE GEOTECHNICAL AND HYDROLOGY  
REGARDING THE TRISO X, LLC LICENSE APPLICATION FOR A NEW FUEL FABRICATION FACILITY  
DATE September 29, 2023

DISTRIBUTION: Docket No. 07007027

HArt, NMSS/DUWP/RTAB

AGhosh, NRR/DEX/ESEB

CSafford, NMSS/DFM

SHelton, NMSS/DFM

**ADAMS Accession No.: ML23254A381; Ltr ML23254A382**

OFFICE	NMSS/DFM/FFLB	NSIR/DPR	NMSS/DFM/FFLB	NMSS/DFM/FFLB
NAME	SPoy	SPJGoodridge	JGSLav	SLMBartlett
DATE	Sep 11, 2023	Sep 14, 2023	Sep 22, 2023	Sep 29, 2023

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