



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

January 16, 2024

MEMORANDUM TO: Samantha Lav, Chief
Fuel Facility Licensing Branch
Division of Fuel Management
Office of Nuclear Material Safety
and Safeguards

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

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

Signed by Bartlett, Matthew
on 01/16/24

SUBJECT: SUMMARY OF MEETING ON DECEMBER 19, 2023, WITH TRISO-X
LLC, TO ALIGN ON THE TRISO-X DRAFT ENVIRONMENTAL
SAFETY REQUESTS FOR ADDITIONAL INFORMATION

The U.S. Nuclear Regulatory Commission (NRC) hosted an observation meeting on Microsoft Teams with TRISO-X, LLC (TRISO-X) on December 19, 2023, from 3:00 p.m. until 4:00 p.m. The purpose of the meeting was to discuss the draft requests for additional information (RAI) for the environmental safety review. The purpose of the meeting was to discuss the RAIs with TRISO-X to ensure they understood the RAIs and had opportunity to request clarifications, if needed. The RAIs seek updates to the TRISO-X original application received April 5, 2022 (ML22101A200) and supplemented by letters dated October 13, 2022 (ML22286A144) and November 4, 2022 (ML22308A251).

The discussion primarily focused on TRISO-X performing routine surveys in the unrestricted areas at locations that are expected to experience the highest environmental concentrations of radiological emissions. TRISO-X stated that they plan to monitor effluents at the stack and at designated locations around the site perimeter. The NRC staff discussed the need to verify offsite dose calculations through some form of offsite sampling. The NRC staff also describe the need for TRISO-X to better explain how they will evaluate gaseous effluent that is entrained in water washout. TRISO-X stated they anticipate being orders of magnitude less than 10% of the Title 10 *Code of Federal Regulations*, Part 20, Appendix B values so they believe continuous sampling at the stack and at the site boundary is sufficient to comply with the regulations. TRISO-X stated they understand the RAIs.

TRISO-X indicated that, if needed, they would provide information about some accident sequences by referencing existing documents on the docket. The NRC staff indicate that if more information on items relied on for safety is needed, a redacted version may be submitted.

CONTACT: Matt Bartlett, NMSS/DFM
301-415-7154

In addition, the NRC stated they would consider issuing an additional Environmental Safety RAI on validation of gaseous effluent concentrations in unrestricted areas.

A list of participants is provided as an Enclosure.

Enclosure:
Participants List (public)

cc: trisoх@listmgr.nrc.gov

SUMMARY OF MEETING ON DECEMBER 19, 2023, WITH TRISO-X LLCTO ALIGN ON THE TRISO-X RESPONSES TO THE ENVIRONMENTAL SAFETY REQUESTS FOR ADDITIONAL INFORMATION
 DATE January 16, 2024

DISTRIBUTION: Docket: 07007027

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OFFICE	NMSS/DFM/FFLB	NMSS/DFM/FFLB	NSIR/DPR	NMSS/DFM/FFLB
NAME	SPoy	SPMBartlett	MBJGoodridge	JGSLav
DATE	Dec 29, 2023	Jan 9, 2024	Jan 9, 2024	Jan 10, 2024
OFFICE	NMSS/DFM/FFLB			
NAME	MBartlett	MB		
DATE	Jan 16, 2024			

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