



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

September 12, 2022

MEMORANDUM TO: Greg Oberson, Acting Chief
Advanced Reactor Licensing Branch 1
Division of Advanced Reactors and Non-power
Production and Utilization Facilities
Office of Nuclear Reactor Regulation

FROM: Lucieann Vechioli Feliciano, Project Manager
Advanced Reactor Licensing Branch 1
Division of Advanced Reactors and Non-power
Production and Utilization Facilities
Office of Nuclear Reactor Regulation

Lucieann Vechioli Feliciano

Signed by Vechioli, L
on 09/12/22

SUBJECT: SUMMARY OF THE JULY 11, 2022, PUBLIC MEETING
REGARDING X ENERGY LLC: QUALITY ASSURANCE
PROGRAM DESCRIPTION

On July 11, 2022, the U.S. Nuclear Regulatory Commission (NRC) staff held a public meeting with representatives from X Energy LLC (X-energy) regarding X-energy's Quality Assurance Program Description. The public meeting notice and agenda are available in Agencywide Documents Access and Management System (ADAMS) Accession Number ML22180A323. X-energy's presentation slides for the meeting are available at ML22217A097. The Enclosure provides the list of meeting attendees.

Meeting Summary

After the opening remarks by the NRC staff and X-energy representatives, X-energy began the discussion by explaining each of the changes in the new version (Revision 4) of the Quality Assurance Program Description (QAPD) topical report. The main purpose of the revision is expanding the report scope to cover more than an Xe-100 reactor design certification. The QAPD approach will also include the TRISO fuel development. Revision 4 of the topical report includes an update to the X-energy organization, revised language to accommodate audit flexibility under exigent conditions, and revisions to incorporate responses to previous requests for additional information (RAIs). X-energy worked with Excel Services in the development of the subject report.

David Bannister of X-energy went over the changes to each section of the report. Some of the NRC feedback provided during the presentation included for X-energy to identify the applicable regulatory guidance and to provide justifications when X-energy will not commit to the expected NRC regulatory guidance.

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Another point raised during the discussion concerned the applicable regulations under Title 10 of the Code of Federal Regulations, Part 70, Part 71 and/or Part 72. X-energy was originally planning to go over these regulations under a separate submittal. X-energy asked if it is acceptable to cover those regulations in the same submittal. The NRC staff took the action to discuss this further with the Office of Nuclear Materials Safety and Safeguards.

The NRC staff also mentioned the benefit of benchmarking with recent applications such as the Hermes reactor from Kairos Power. Understanding the approach of Kairos and other applicants with relevant experiences will most likely result in a more efficient and faster review.

X-energy stated that the Topical Report Revision 4 will be submitted for NRC review by August 2022. X-energy intends to continue to engage with the NRC staff on this and several other topics as part of their pre-application activities for the Xe-100 design.

There were no questions from the public.

Project No. 99902071

Enclosure:
List of Attendees

SUBJECT: SUMMARY OF THE JULY 11, 2022, PUBLIC MEETING REGARDING X
ENERGY LLC: QUALITY ASSURANCE PROGRAM DESCRIPTION
DATED: SEPTEMBER 12, 2022

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YDiaz-Castillo, NRR

ADAMS Accession No.: ML22217A096**NRR-106**

OFFICE	NRR/DANU/UAL1/PM	NRR/DANU/UAL1/LA	NRR/DRO/IQVB
NAME	LVechioli	DGreene	KKavanagh
DATE	8/25/2022	8/31/2022	9/1/2022
OFFICE	NRR/DANU/UAL1/BC(A)	NRR/DANU/UAL1/PM	
NAME	GOberson	LVechioli	
DATE	9/1/2022	9/12/2022	

OFFICIAL RECORD COPY

List of Attendees

**PUBLIC MEETING REGARDING X ENERGY LLC: QUALITY ASSURANCE PROGRAM
DESCRIPTION**

Monday, July 11, 2022

Name	Organization
Lucieann Vechioli-Feliciano	U.S. Nuclear Regulatory Commission (NRC)
Kerri Kavanagh	NRC
Yamir Diaz-Castillo	NRC
David Bannister	X Energy, LLC
Ingrid Nordby	X Energy, LLC
Travis Chapman	X Energy, LLC
Randy Eubanks	X Energy, LLC
Eddie Grant	Excel Services
Fred Mizell	Excel Services
Wayne Massie	Excel Services
Jana Bergman	Curtiss Wright
Adam Stein	Breakthrough Institute