



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

September 28, 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 *Lucieann Vechioli Feliciano* Signed by Vechioli, Lu
Advanced Reactor Licensing Branch 1 on 09/28/22
Division of Advanced Reactors and Non-Power
Production and Utilization Facilities
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF THE DECEMBER 13, 2021, CLOSED MEETING
REGARDING X ENERGY, LLC'S: XE-100 TOPICAL REPORT"
TRANSIENT AND SAFETY ANALYSIS METHODOLOGIES
FRAMEWORK

On December 13, 2021, the U.S. Nuclear Regulatory Commission (NRC) staff held a closed meeting with representatives from X Energy, LLC (X-energy) regarding the Xe-100 Topical Report: "Transient and Safety Analysis Methodologies Framework" for the Xe-100 reactor design, which was submitted to the NRC staff on October 8, 2021 (Agencywide Documents Access System (ADAMS) Accession No. ML21288A172). The public meeting notice and agenda are also available in ADAMS (ML21344A166). The Enclosure provides the list of meeting attendees.

Meeting Summary

The purpose of the meeting was to discuss and get clarification of X-energy's request for the NRC staff's review and approval of X-energy's approach submitted in the subject topical report, regarding performing transient and safety analyses for the Xe-100 reactor.

In accordance with Management Directive 3.5, "Attendance at NRC Staff-Sponsored Meetings" ([ML21180A271](#)), the meeting was closed because the discussion involved proprietary details related to the X-energy licensing strategy.

Docket No.: 99902071

Enclosure:
List of Attendees

CONTACT: Lucieann Vechioli, NRR/DANU/UAL1
301-415-6035

G. Oberson

- 2 -

SUBJECT: SUMMARY OF THE DECEMBER 13, 2021, CLOSED MEETING REGARDING X ENERGY, LLC: XE-100 TOPICAL REPORT” TRANSIENT AND SAFETY ANALYSIS METHODOLOGY FRAMEWORK DATED: SEPTEMBER 28, 2022

DISTRIBUTION:

PUBLIC

WKennedy, NRR

GOberson, NRR

MHayes, NRR

LVechioli Feliciano, NRR

BTravis, NRR

CAdams, NRR

RidsNrrLACSmith Resource

ADAMS Accession No.: ML22217A056

NRC-001

OFFICE	NRR/DANU/UAL1:PM	NRR/DANU/UAL1:LA	NRR/DANU/UAL1:BC(A)	NRR/DANU/UAL1:PM
NAME	LVechioli	CSmith	GOberson	LVechioli
DATE	8/5/2022	8/25/2022	8/26/2022	9/28/2022

OFFICIAL RECORD COPY

U.S. NUCLEAR REGULATORY COMMISSION

CLOSED MEETING REGARDING X ENERGY, LLC'S: XE-100 TOPICAL REPORT"
TRANSIENT AND SAFETY ANALYSIS METHODOLOGY FRAMEWORK

DECEMBER 13, 2021

MEETING ATTENDEES

<u>Name</u>	<u>Organization</u>
Lucieann Vechioli-Feliciano	U.S. Nuclear Regulatory Commission (NRC)
Boyce Travis	NRC
Christopher Adams	NRC
William Kennedy	NRC
Ingrid Nordby	X Energy, LLC
Travis Chapman	X Energy, LLC
Stephen Vaughn	X Energy, LLC
Raymond Wang	X Energy, LLC
Amanda Spalding	Westinghouse

Enclosure