



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

October 30, 2023

MEMORANDUM TO: Michael Wentzel, Chief
Advanced Reactor Licensing Branch 2
Division of Advanced Reactors and Non-power
Production and Utilization Facilities
Office of Nuclear Reactor Regulation

FROM: Adrian Muñiz, Senior Project Manager */RA/*
Advanced Reactor Licensing Branch 2
Division of Advanced Reactors and Non-power
Production and Utilization Facilities
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF THE SEPTEMBER 21, 2023, OBSERVATION
MEETING WITH X ENERGY, LLC, TO DISCUSS PROPOSED
CONTENT OF CHAPTER 5 OF THE PRELIMINARY
ASSESSMENT REPORT

Meeting Information:

Applicant: X Energy, LLC (X-energy)

Project No.(s): 99902071

Public Meeting Notice Agencywide Documents Access and Management System (ADAMS)
Accession No.: ML23242A298

Applicant Presentation Slides ADAMS Accession No.: ML23241A898

Meeting Attendees: See the enclosure for a list of meeting attendees.

CONTACT: Adrian Muñiz, NRR/DANU
301-415-4093

Meeting Summary:

The U.S. Nuclear Regulatory Commission (NRC) staff conducted the meetings in accordance with NRC Management Directive 3.5, "Attendance at NRC Staff-Sponsored Meetings" (ADAMS Accession No. [ML21180A271](#)). The main point of discussion during the meeting revolved around the expected content of the preliminary safety analysis report Chapter 5, "Safety Functions, Design Criteria, and Structures, Systems, and Components Safety Classification". Specifically, X-energy staff discussed how the content aligns with applicable guidance. For example, for Section 5.3, "Principal Design Criteria," X-energy staff stated that the format for this section will differ from the Nuclear Energy Institute (NEI) guidance in NEI 21-07, "Technology Inclusive Guidance for Non-Light Water Reactors".

No regulatory decisions were made during this meeting.

Project No. 99902071

Enclosure: List of Meeting Attendees

cc: X-energy Xe-100 via GovDelivery

SUBJECT: SUMMARY OF THE SEPTEMBER 21, 2023, OBSERVATION MEETING WITH X ENERGY, LLC, TO DISCUSS PROPOSED CONTENT OF CHAPTER 5 OF THE PRELIMINARY ASSESSMENT REPORT DATED: OCTOBER 30, 2023

DISTRIBUTION:

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ADAMS Accession Number: ML23300A064

***via email**

OFFICE	NRR/DANU/UAL2/PM	NRR/DANU/UAL2/BC
NAME	Adrian Muñiz	MWentzel
DATE	10/30/2023	10/30/2023*

OFFICIAL RECORD COPY

LIST OF MEETING ATTENDEES
AT THE SEPTEMBER 21, 2023, OBSERVATION WITH X ENERGY, LLC, TO DISCUSS
PROPOSED CONTENT OF CHAPTER 5 OF THE PRELIMINARY ASSESSMENT REPORT

Name	Organization
Adrian Muñiz	U.S. Nuclear Regulatory Commission (NRC)
Ian Jung	NRC
Michelle Hart	NRC
John Hughey	NRC
Meg Audrain	NRC
William Reckley	NRC
Meg Audrain	NRC
Dan Beacon	NRC
Anders Gilbertson	NRC
Joseph Sebrosky	NRC
Boyce Travis	NRC
Nanette Valliere	NRC
Jorge Hernandez	NRC
Jason Schaperow	NRC
Amy Cabbage	NRC
Jorge Hernandez	NRC
Lance Kingsbury	NRC
Mark Cursey	X-energy
Drew Nigh	X-energy
Eric Deeken	X-energy
Jon Facemire	X-energy
Maggie Staiger	X-energy
Luke McSweeney	X-energy
Mark Paul	X-energy
Tom Braudt	X-energy
Jack Anderson	X-energy
Lisa Williams	Energy-Northwest
Stephan Moen	Energy-NorthWest
Meredith Heh	Westinghouse
Jill Monahan	Westinghouse
Eddie Grant	Excel Services
Steven Pope	Information Systems Laboratories
Charlyne Smith	The Breakthrough Institute
Mihai Diaconeasa	North Carolina State University
Mostafa Mohamed Hamza	North Carolina State University
Rasheed Auguste	U.S. Department of Energy
Timothy Stuhldreher	U.S. Department of Energy
Carl Friesen	U.S. Department of Energy
Mark Natale	U.S. Department of Energy

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Name	Organization
Diane Wilson	San Antonio Bay Estuarine Waterkeeper
Dominik Muszynski	Member of the Public