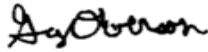




UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

November 23, 2021

MEMORANDUM TO: William Kennedy, Acting Chief  
Advanced Reactor Licensing Branch  
Division of Advanced Reactors and  
Non-Power Production and Utilization Facilities  
Office of Nuclear Reactor Regulation

FROM: Greg Oberson, Project Manager  Signed by Oberson, Greg  
Advanced Reactor Licensing Branch on 11/23/21  
Division of Advanced Reactors and  
Non-Power Production and Utilization Facilities  
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF OCTOBER 14, 2021, PUBLIC MEETING BETWEEN  
STAFF AND X ENERGY, LLC TO DISCUSS THE REVIEW OF THE  
TOPICAL REPORT "CONTROL ROOM STAFFING ANALYSIS  
METHODOLOGY" (EPID NO. L-2021-TOP-0024)

On October 14, 2021 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML21263A201), U.S. Nuclear Regulatory Commission (NRC) staff held a virtual observation public meeting with representatives from X Energy, LLC (X-energy). The purpose of the meeting was to reach alignment with X-energy on the intended scope of staff's review for the Topical Report titled, "Control Room Staffing Analysis Methodology," submitted to NRC on August 16, 2021 (ADAMS Accession No. ML21228A011). This communication with X-energy was necessary for staff to perform its completeness review for the Topical Report in accordance with the procedures in the Office of Nuclear Reactor Regulation Office Instruction LIC-500 (Rev. 8), "Topical Report Process" (ADAMS Accession No. ML19123A252). A list of the meeting attendees are included in the enclosure to this document.

In conducting the completeness review, staff identified references in the Topical Report to Implementation Plans for specific elements of the X-energy Xe-100 human factors engineering program. In the meeting, staff asked representatives from X-energy whether, via this Topical Report, they are seeking review of the implementation reports referenced therein and if so, when would those be submitted to the NRC. Upon discussion, NRC staff and X-energy representatives determined that, because the implementation plans are integral to the Topical Report, they should be submitted on the NRC docket as soon as practicable to facilitate staff's review. X-energy will provide a proposed schedule for their submittal within 1 week from the date of the public meeting.

CONTACT: Greg Oberson, NRR/DANU  
301-415-2183

Further, staff noted that in addition to the regulations for control room staffing in Title 10, *Code of Federal Regulations*, Part 50.55(m)(2)(i), the Topical Report references regulations and Commission Policy Statements concerning such matters as operator training requirements and engineering expertise on shift. Staff asked representatives from X-energy whether an intended purpose of this Topical Report would be to support the basis for justifying a potential deviation from any of these other regulations or Policy Statements. The X-energy representatives indicated that, although these are related matters, this is not the purpose of this Topical Report. Any such issues would be addressed in subsequent submittals. Staff will finalize and provide to X-energy the Topical Report completeness determination decision letter following receipt of the schedule for the implementation plans.

Project No.: 99902071

Enclosure:  
List of Attendees

SUBJECT: SUMMARY OF OCTOBER 14, 2021, PUBLIC MEETING BETWEEN STAFF AND X ENERGY, LLC TO DISCUSS THE REVIEW OF THE TOPICAL REPORT "CONTROL ROOM STAFFING ANALYSIS METHODOLOGY" (EPID NO. L-2021-TOP-0024) DATED NOVEMBER 23, 2021

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**ADAMS Accession No.: ML21293A149**

**NRR-106**

OFFICE	NRR/DANU/UARL/PM	NRR/DORL/LPL3/LA	NRR/DANU/UARL/BC	NRR/DANU/UARL/PM
NAME	GOberson	SLent	WKennedy	GOberson
DATE	20/20/2021	10/20/21	10/22/2021	11/23/2021

**OFFICIAL RECORD COPY**

**List of Attendees - October 14, 2021 Public Meeting Between Staff and X Energy, LLC  
to Discuss the Review of the Topical Report “Control Room Staffing Analysis  
Methodology”**

<b>Name</b>	<b>Affiliation</b>
Greg Oberson	U.S. Nuclear Regulatory Commission (NRC)
Lucieann Vechioli	NRC
Brian Green	NRC
Brian Tindell	NRC
Justin Vazquez	NRC
Ian Jung	NRC
Ingrid Nordby	X-energy, LLC (X-energy)
Travis Chapman	X-energy
Maggie Staiger	X-energy
Yvotte Brits	X-energy
Martin van Staden	X-energy
Kuan-Ting Chen	X-energy
Paul Hippely	X-energy
Thomas Braudt	X-energy
Eddie Grant	Contractor to X-energy
Héctor Martínez-Pinna Albar	Contractor to X-energy
Dan Williamson	Contractor to X-energy
James (Chip) Moon Jr.	Energy Northwest
Adam Stein	Breakthrough Institute
Jana Bergman	Curtiss Wright