



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

December 9, 2021

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

Adrian Muñiz

Signed by Muniz Gonzalez, Adrian
on 12/09/21

FROM: Adrian Muñiz, Project Manager
Advanced Reactor Licensing Branch
Division of Advanced Reactors and Non-Power
Production and Utilization Facilities
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF THE OCTOBER 27, 2021, PUBLIC MEETING
WITH THE UNIVERSITY OF ILLINOIS AT URBANA-
CHAMPAIGN TO DISCUSS THE DRAFT REGULATORY
ENGAGEMENT PLAN (EPID L-2021-NFN-0002)

On October 27, 2021 (Agencywide Documents Access and Management System (ADAMS Accession No. ML21299A364), the U.S. Nuclear Regulatory Commission (NRC) staff held a public meeting with representatives from the University of Illinois at Urbana-Champaign (UIUC). The purpose of this meeting was to discuss UIUC's regulatory draft engagement plan (ADAMS Accession No. ML21288A168). UIUC plans to submit an application for a construction permit, followed by an application for an operating license for a test reactor facility for the Micro-Modular Reactor high temperature gas-cooled reactor design developed by the Ultra Safe Nuclear Corporation. The meeting commenced with a presentation by the NRC staff regarding NRC's role pertaining to test reactors construction permit applications (ADAMS Accession No. ML21299A320). This was followed by a presentation from UIUC and its contractors pertaining to its regulatory engagement plan. The presentation covered the project overview, preliminary siting, environmental review, technology overview, and regulatory strategy (ADAMS Accession No. ML21301A225). The enclosure to this memorandum lists the meeting attendees.

After the business portion of the meeting, a member of the public expressed concerns with siting a test reactor at the UIUC campus. The NRC staff explained that its regulations and supporting review guidance cover siting and radiation protection for the NRC staff to use when reviewing an application for a new facility. The NRC staff's review guidance specifically addresses siting of these facilities in densely populated areas. The NRC staff also noted that there are many research reactors located on college campuses across the country, including in urban areas.

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The same member of the public also asked how the proposed facility could be considered a research and development facility and not a commercial reactor when UIUC stated that it intends to use the facility to provide some electricity and/or heat energy for the UIUC campus. The NRC staff explained that the Atomic Energy Act of 1954, as amended (AEA), includes provisions that could allow a research and development facility to produce electricity provided that it meets certain criteria and limitations. The NRC staff stated that UIUC's application for an NRC permit or license will need to include enough detail about the intended research activities and energy production capabilities for the NRC staff to determine whether the facility can be licensed as a research and development facility, or whether it would be classified as a commercial facility. The AEA provides a list of research and development activities such as researching the production of atomic energy, nuclear processes, and using radioactive material for medical, biological, or health purposes. As part of its review, the NRC staff would ensure that the UIUC's intended use of the proposed facility is consistent with the research and development activities described in the AEA and the limitations on electricity production. No other public comments or questions were provided during the public comments portion of the meeting.

Project No.: 99902094

Enclosure:
As stated

SUBJECT: SUMMARY OF THE OCTOBER 27, 2021, PUBLIC MEETING WITH THE UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN TO DISCUSS THE DRAFT REGULATORY ENGAGEMENT PLAN (EPID L-2021-NFN-0002) DATED: DECEMBER 9, 2021

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- Kenneth See, NRR
- Nancy Martinez, NMSS
- Michael Norris, NSIR
- Kerri Kavanaugh, NRR
- Joseph Ashcraft, NRR
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- John Segala, NRR
- Muzzammil Siddiqui, OCHCO
- Pete Lee, NSIR
- Jan Mazza, NRR
- Louis Cubellis, NSIR

ADAMS Accession No: ML21321A293

NRC-001

OFFICE	NRR/DANU/UARL/PM	NRR/DANU/UARL/LA	NRR/DANU/UARL/BC (A)	NRR/DANU/UARL/P
NAME	AMuñiz	CSmith	WKennedy	AMuñiz
DATE	11/18/2021	12/8/2021	12/8/2021	12/9/2021

OFFICIAL RECORD COPY

List of Attendees

**Public Meeting between the NRC Staff and the University of Illinois at Urbana-Champaign
to Discuss the Draft Regulatory Engagement Plan**

October 27, 2021

<u>NAME</u>	<u>ORGANIZATION</u>
Adrian Muñiz	Nuclear Regulatory Commission (NRC)
Mohamed Shams	NRC
Shaun Anderson	NRC
William Kennedy	NRC
Joshua Borromeo	NRC
Christopher Van Wert	NRC
Kevin Folk	NRC
Edward Helvenston	NRC
Scott Burnell	NRC
Brian Green	NRC
Amitava Ghosh	NRC
Kenneth See	NRC
Nancy Martinez	NRC
Michael Norris	NRC
Kerri Kavanaugh	NRC
Joseph Ashcraft	NRC
Carolyn Wolf	NRC
Barbara Hayes	NRC
Marcia Carpentier	NRC
Frankie Vega	NRC
Michael Orenak	NRC
John Segala	NRC
Muzzammil Siddiqui	NRC
Julie Ezell	NRC
Pete Lee	NRC
Susan Vrahoretis	NRC
Neil Sheehan	NRC
Jan Mazza	NRC
Louis Cubellis	NRC
Caleb Brooks	University of Illinois at Urbana-Champaign (UIUC)

Enclosure

<u>NAME</u>	<u>ORGANIZATION</u>
William Roy	UIUC
Rizwan Uddin	UIUC
James F Stubbins	UIUC
Clive Townsend	UIUC
Tomasz Kozlowski	UIUC
Storm Kauffman	MPR Associates
Kyle Metzroth	MPR
Cristian Rabiti	UltraSafe Nuclear Corporation (USNC)
Junaid Razvi	USNC
Francesco Venneri	USNC
Chiraag Gokaldas	USNC
Ewa Muzikova	USNC
Mary Woollen	USNC
Bobbie Hurley	AECOM
Ethan Nicolls	Member of the public
Lowre D Young	Member of the public
Donald Fournier	Member of the public
Zep Jerzy	Member of the public
John Majsztzik	Member of the public
John Fletcher	Member of the public
Steven Vitto	Member of the public
Sharon Sanders	Member of the public
Brian E. Jelke	Member of the public
Maciej Skrzypek	Member of the public
Ken MacDougall	Member of the public
Alvin Lee	Member of the public
Bella Pequette	Member of the public
Dilan Kurukulasuriy	Member of the public
Kelly Horn	Member of the public
Steven Horowitz	Member of the public
Nitika Purohit	Member of the public
Dylan Sivekumar	Member of the public
Kevin Taylor	Member of the public
Tim Ashworth	Member of the public

<u>NAME</u>	<u>ORGANIZATION</u>
Andrew Ernat	Member of the public
Warclaw Gudowski	Member of the public
David Scherer	Member of the public
Amanda Bachmann	Member of the public
Dominik Muszynski	Member of the public
David Train	Member of the public
Alwyn Strauss	Member of the public
Shari Eilene Effert-Fanta	Member of the public
Jan Van Ravenswaay	Member of the public
Connor A Pigg	Member of the public
Sharon Irish	Member of the public
Kwabena Shange	Member of the public
Harun Ardiansyah	Member of the public
Sari Alkhatib	Member of the public
Paul Eric Marko	Member of the public
Travis Mui	Member of the public
Yang Zhang	Member of the public
Peter Devitt	Member of the public
Nolan MacDonald	Member of the public
Josh Hoffman	Member of the public
Robyn Valin	Member of the public
Jeremy Mettler	Member of the public
Drew Johnson	Member of the public
Linda Boeheim	Member of the public
Nataly Panczyk	Member of the public
Patrick White	Member of the public
Alan Medsker	Member of the public
Douglass Miller	Member of the public
Cammie Cheng	Member of the public
Davin Udara Hess	Member of the public
Melanie Rickard	Member of the public
Andrew Zach	Member of the public
Andrea Alfonsi	Member of the public
Nezar Abraham	Member of the public

<u>NAME</u>	<u>ORGANIZATION</u>
Kai Jiang	Member of the public
Mounia Berdai	Member of the public
Chantal Morin	Member of the public
Jeff Terry	Member of the public
Sarah Eaton	Member of the public
Matthew Naraine	Member of the public
Seaver Wang	Member of the public
Daniel Duchesne	Member of the public
Chris Carson	Member of the public
Nick Shykinov	Member of the public