

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

July 11, 2023

Joseph A. Proffitt, Acting Chief Advanced Reactor Licensing Branch 1 Division of Advanced Reactors and Non-Power Production and Utilization Facilities Office of Nuclear Reactor Regulation		
Mallecia Sutton, Senior Project Manager Advanced Reactor Licensing Branch 1 Division of Advanced Reactors and Non-Power Production and Utilization Facilities Office of Nuclear Reactor Regulation		
SUMMARY OF THE OCTOBER 31, 2022, PARTIALLY CLOSED PRE-APPLICATION MEETING WITH TERRAPOWER, LLC, TO DISCUSS THE EMERGENCY PLANNING ZONE SIZING METHODOLOGY (EPID NO. L-2021-LRM-0071)		

Meeting Information:

Applicant: TerraPower, LLC (TerraPower)

Docket/Project No.(s): 99902100

Public Meeting Notice Agencywide Documents Access and Management System (ADAMS) Accession No.: ML22304A043

Applicant Presentation Slides ADAMS Accession No.: ML22291A001, ML22291A002

Meeting Summary:

The U.S. Nuclear Regulatory Commission (NRC) staff conducted the meeting in accordance with NRC Management Directive 3.5, "Attendance at NRC Staff-Sponsored Meetings" (ADAMS Accession No. <u>ML21180A271</u>).

On October 31, 2022, the U.S. Nuclear Regulatory Commission (NRC) staff held a
partially closed public meeting with TerraPower, LLC (TerraPower) to provide the NRC
staff with an overview of the Emergency Planning Zone Sizing Methodology (EPZ).
Participants included representatives from TerraPower, the U.S. Department of Energy,
General Electric Hitachi, Bechtel, Duke Energy, PacifiCorp, and members of the general
public. The enclosure provides the list of meeting attendees.

CONTACT: Mallecia Sutton, NRR/DANU (301) 415-0673

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- The NRC staff began the public meeting with an introduction and explained that a
 portion of the meeting would be closed to the public to discuss proprietary information.
 During the public portion of the meeting, TerraPower representatives described how the
 proposed Natrium Plume Exposure Pathway (PEP) EPZ methodology follows the current
 guidance in draft Regulatory Guide 1.242, "Performance-Based Emergency
 Preparedness for Small Modular Reactors, Non-Light-Water Reactors, and Non-Power
 Production or Utilization Facilities," for establishing EPZ boundary size and preforming
 supporting calculations. TerraPower representatives also provided the NRC staff with an
 overview of the Emergency Planning Strategy and Plume Exposure Pathway
 Methodology. At the end of the presentation, the public had an opportunity to ask
 guestions of the NRC staff.
- During the closed portion of the meeting, TerraPower representatives presented, in more detail, the Emergency Planning Strategy and Plume Exposure Pathway Methodology and the EPZ Sizing Methodology. TerraPower representatives and the NRC staff discussed the next steps for future interactions regarding the Natrium Reactor design.

Enclosure: List of Meeting Attendees

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SUBJECT: SUMMARY OF THE OCTOBER 31, 2022, PARTIALLY CLOSED PRE-APPLICATION MEETING WITH TERRAPOWER, LLC TO DISCUSS THE EMERGENCY PLANNING ZONE SIZING METHODOLOGY (EPID NO. L-2021-LRM-0071) DATED: JULY 11, 2023

DISTRIBUTION:

PUBLIC RidsNrrDanuUal1 Resource RidsNrrDanuUal2 Resource RidsNrrDanu Resource MSutton, NRR WJessup, NRR CBanks, NRR MHart, NRR KMott, NSIR TSmith, NSIR JQuichocho, NSIR KMiller, NRR ERobinson, NSIR ESchrader, NSIR HPhan, NRR RHoffman, NSIR JSegala, NRR

ADAMS Accession Number: ML23030B894

NRC-001

OFFICE	NRR/DANU/UAL1:PM	NRR/DANU/UAL1:PM	NRR/DANU/UAL2:LA	NRR/DANU/UAL1:BC(A)
NAME	CBanks	MSutton	CSmith	AProffitt
DATE	1/31/2023	2/1/2023	6/20/2023	6/22/2023
OFFICE	NRR/DANU/UAL1:PM		·	
NAME	MSutton			
DATE	7/11/2023			

OFFICIAL RECORD COPY

List of Meeting Attendees

Partially Closed Pre-Application Meeting with TerraPower, LLC to Discuss the Emergency Planning Zone Sizing Methodology

Name	Organization
Mallecia Sutton	U.S. Nuclear Regulatory Commission (NRC)
Courtney Banks	NRC
Michelle Hart	NRC
Kenneth Mott	NRC
Todd Smith	NRC
Jesse Quichocho	NRC
Keith Miller	NRC
Edward Robinson	NRC
Eric Schrader	NRC
Hanh Phan	NRC
Raymond Hoffman	NRC
John Segala	NRC
Ryan Sprengel	TerraPower LLC, (TerraPower)
Tara Neider	TerraPower
George Wilson	TerraPower
Eric Williams	TerraPower
John Biersdorf	TerraPower
Leslie Holden	TerraPower
Mike Montecalvo	TerraPower
Stacy Gillin	TerraPower
Brian Johnson	TerraPower
lan Gifford	TerraPower
Nick Kellenberger	TerraPower
Robert Petroski	TerraPower
Tim Enfinger	General Electric Hitachi
Shane Gardner	GEH
Lisa Schichlein	GEH
Steve Kline	Bechtel
Lee Grzeck	Duke

October 31, 2022