



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

June 1, 2023

MEMORANDUM TO: 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

FROM: Mallecia A. Sutton, Senior Project Manager *Mallecia Sutton* Signed by Sutton, Mallecia
Advanced Reactor Licensing Branch 1 on 06/01/23
Division of Advanced Reactors and Non-Power
Production and Utilization Facilities
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF THE AUGUST 4, 2022, OPEN OBSERVATION
PRE-APPLICATION MEETING WITH TERRAPOWER, LLC, PUBLIC
MEETING TO DISCUSS THE EMERGENCY PLANNING ZONE
METHODOLOGY FOR THE NATRIUM REACTOR (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.: ML22213A065

Applicant Presentation Slides: ML22207B801

Meeting Attendees: See Enclosure for list of meeting attendees.

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" ([ML21180A271](#)).

- On August 4, 2022, the U.S. Nuclear Regulatory Commission (NRC) staff held a public meeting with TerraPower to provide the NRC staff with an overview of the emergency planning zone (EPZ) methodology for the Natrium Reactor. Participants included representatives from TerraPower, General Electric Hitachi, Bechtel, PacifiCorp, the Breakthrough Institute, the Union of Concerned Scientists, and members of the public. The enclosure provides the list of meeting attendees.
- The NRC staff began the public meeting with introductions. During the meeting, TerraPower representatives gave an overview of the Natrium Reactor emergency planning strategy and possible exemptions under consideration. TerraPower also discussed planned licensing submittals and the Natrium plume exposure pathway EPZ methodology and application, including plans for meteorological data development. At the end of the presentation, the public had an opportunity to ask questions of the NRC staff. TerraPower representatives and the NRC staff discussed the next steps for future interactions regarding the Natrium Reactor design.

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

Enclosure:
List of Meeting Attendees

SUBJECT: SUMMARY OF AUGUST 4, 2022, OPEN OBSERVATION PRE-APPLICATION MEETING WITH TERRAPOWER, LLC, PUBLIC MEETING WITH TO DISCUSS THE EMERGENCY PLANNING ZONE METHODOLOGY FOR THE NATRIUM REACTOR (EPID NO. L-2021-LRM-0071) DATED: JUNE 1, 2023

DISTRIBUTION:

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MSutton, NRR

JProffitt, NRR

CSmith, NRR

ADAMS Accession Number: ML23039A110**NRC-001**

OFFICE	NRR/DANU/UAL1/PM	NRR/DANU/UAL2/LA	NRR/DANU/UAL1/BC	NRR/DANU/UAL1/PM
NAME	MSutton	CSmith	JProffitt	MSutton
DATE	5/25/2023	5/25/2023	5/31/2023	6/1/2023

OFFICIAL RECORD COPY

List of Meeting Attendees

Open Observation Pre-Application Meeting with TerraPower, LLC, to Discuss the EPZ

Methodology for the Sodium Reactor

August 4, 2022

Name	Organization
Mallecia Sutton	U.S. Nuclear Regulatory Commission (NRC)
Mohamed Shams	NRC
Mike Franovich	NRC
William Jessup	NRC
Todd Smith	NRC
Reed Anzalone	NRC
Michelle Hart	NRC
Alexandra Siwy	NRC
William Reckley	NRC
Katie Wagner	NRC
Marie Pohida	NRC
Elijah Dickson	NRC
Raymond Hoffman	NRC
Kenneth Mott	NRC
Eric Schrader	NRC
Amanda Marshall	NRC
Angel Moreno	NRC
George Wilson	TerraPower, LLC (TerraPower)
Ryan Sprengel	TerraPower
John Biersdorf	TerraPower
Leslie Holden	TerraPower
Brian Johnson	TerraPower
Stacy Gillin	TerraPower
Pamela Fergen	TerraPower
Benoit Dionne	TerraPower
Seth Netterstrom	TerraPower
Paula Freyer	General Electric Hitachi
Dennis Henneke	General Electric Hitachi
Lisa Schichlein	General Electric Hitachi
Steve Kline	Bechtel
Alice Carson	Bechtel
Chuck Tack	PacifiCorp
Rani Franovich	Breakthrough Institute
Leigh Anne Lloveras	Breakthrough Institute
Edwin Lyman	Union of Concerned Scientists
Austin Clark	Public Citizen
Steven Pope	Public Citizen
Brian Mount	Public Citizen
David Louis Daigle	Public Citizen
Anthony DeFelice	Public Citizen
Emma Redfoot	Public Citizen

Enclosure

Ingrid Nordby	Public Citizen
Jarad O'Brien	Public Citizen
Jeremy Jones	Public Citizen
Jong Chang	Public Citizen
Keith Krauland	Public Citizen
Brandon Hartle	Public Citizen
Pete Kissinger	Public Citizen
Leslie Holden	Public Citizen
Ryan Lighty	Public Citizen
Lisa Matis	Public Citizen
Michele Irwin	Public Citizen
Mary Diané	Public Citizen
Bruce Musico	Public Citizen
Nathan Jackson	Public Citizen
Michael Norris	Public Citizen
Shannon Anderson	Public Citizen
Tom Brandt	Public Citizen
Bruce Foreman	Public Citizen