



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

August 11, 2022

MEMORANDUM TO: William B. Kennedy, 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 A. on 08/11/22  
Advanced Reactor Licensing Branch 1  
Division of Advanced Reactors and Non-Power  
Production and Utilization Facilities  
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF MAY 4, 2022, CLOSED MEETING WITH  
TERRAPOWER, LLC TO DISCUSS THE FUEL CYCLE  
ENVIRONMENTAL IMPACTS FOR THE NATRIUM REACTOR  
(EPID NO. L-2021-LRM-0071)

On May 4, 2022, the U.S. Nuclear Regulatory Commission (NRC) staff held a closed videoconference meeting with TerraPower, LLC (TerraPower) to provide the NRC staff with an overview of the Fuel Cycle Environmental Impacts for the Natrium Reactor. The presentation slides can be found in the NRC's Agencywide Documents Access and Management System (ADAMS) at Accession No. ML22112A141 and ML22112A142. Participants included personnel from the NRC staff, TerraPower, and General Electric Hitachi.

The public meeting notice for the May 4, 2022, meeting, dated April 15, 2022, can be found at ML22108A058 The Enclosure provides the list of meeting attendees.

The NRC staff began the meeting with an introduction and explanation of logistical information. During the meeting, TerraPower provided the NRC staff with an overview of the TerraPower Fuel Cycle Environmental Impacts for the Natrium Reactor, including the TerraPower Fuel Cycle Environmental Impacts program scope and elements. The NRC staff asked questions about the information presented and TerraPower representatives responded. Finally, the TerraPower representatives and the NRC staff discussed next steps for future pre-application activities.

Project No. 99902100

Enclosure:  
List of Attendees

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

SUBJECT: SUMMARY OF MAY 4, 2022, CLOSED MEETING WITH TERRAPOWER, LLC TO DISCUSS THE FUEL CYCLE ENVIRONMENTAL IMPACTS FOR THE NATRIUM REACTOR (EPID NO. L-2021-LRM-0071) DATED: AUGUST 11, 2022

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JSeymour, NRR

DDesaulniers, NRR

BGreen, NRR

SPhilpott, NRR

**ADAMS Accession No.: ML22187A106****NRR-106**

<b>OFFICE</b>	NRR/DANU/UAL1/PM	NRR/DANU/UAL1/LA	NRR/DANU/UAL1/BC(A)
<b>NAME</b>	MSutton	DGreene	WKennedy
<b>DATE</b>	7/12/2022	7/15/2022	7/15/2022
<b>OFFICE</b>	NRR/DANU/UAL1/PM		
<b>NAME</b>	MSutton		
<b>DATE</b>	8/11/2022		

**OFFICIAL RECORD COPY**

## **List of Attendees**

### **Closed Meeting with TerraPower, LLC to Discuss the TerraPower Fuel Cycle: Environmental Impacts for the Sodium Reactor**

**Wednesday, May 4, 2022, 1:00 p.m. – 3:00 p.m.**

<b><u>Name</u></b>	<b><u>Organization</u></b>
Mallecia Sutton	U.S. Nuclear Regulatory Commission (NRC)
William Kennedy	NRC
Steve Philpott	NRC
Brian Green	NRC
David Desaulniers	NRC
Kenneth Erwin	NRC
Alex Siwy	NRC
Jesse Seymour	NRC
Eric Williams	TerraPower, LLC (TerraPower)
Benoit Dionne	TerraPower
Mark Werner	TerraPower
Ryan Sprengel	TerraPower
Nick Kellenberger	TerraPower
Erin Wisler	TerraPower
Mike Montecalvo	TerraPower
Jeff Grogan	General Electric Hitachi (GEH)
Lisa Schichlein	GEH
Stephanie Foerster	GEH
Denise Brooks	GEH
Steve Kline	Bechtel
Chris Nolan	Duke Energy