



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

February 25, 2021

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

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

SUBJECT: SUMMARY OF JANUARY 26, 2021, PARTIALLY CLOSED
MEETING TO DISCUSS TERRESTRIAL ENERGY USA
POSTULATED INITIATING EVENTS WHITE PAPER REVIEW
REQUESTS

On January 26, 2021 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML21015A523), the U.S. Nuclear Regulatory Commission (NRC) staff held a partially closed meeting to discuss Terrestrial Energy USA (TEUSA) review requests in the white paper associated with postulated initiating events (PIE) for the integral molten salt reactor (IMSR) design submitted to the NRC for review. By letter dated October 22, 2020 (ADAMS Accession No. ML20318A169), TEUSA requested that the NRC staff review the white paper and referenced documents, and approve the following:

1. The list of postulated initiating events, which was developed in a manner that identifies all reasonable potential events that could occur in the IMSR®.
2. The methodology used to develop the list of PIE.
3. The threshold used to establish the category of AOOs [anticipated operational occurrences].
4. The threshold used to establish the category of DBAs [design basis accidents].
5. The use of the list of PIE in future licensing applications.

The NRC staff asked clarification questions in order to inform the staff's review. At the conclusion of the meeting, the NRC staff indicated that formal feedback will be provided to TEUSA on their review requests for TEUSA's consideration in the near future. The list of attendees to this meeting is included as an enclosure to this meeting summary. Staff from the Canadian Nuclear Safety Commission were invited by NRC staff as observers to this meeting.

Project No.: 99902076

Enclosure:
As stated

CONTACT: Adrian Muñiz, NRR/DANU
301-415-4093

SUBJECT: SUMMARY OF JANUARY 26, 2020, PARTIALLY CLOSED MEETING TO DISCUSS TERRESTRIAL ENERGY USA POSTULATED INITIATING EVENTS WHITE PAPER REVIEW REQUESTS DATED: February 25, 2021

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ADAMS Accession No. ML21049A186

NRC-001

OFFICE	NRR/DANU/UARL/PM	NRR/DANU/UARL/LA	NRR/DANU/UARL/BC	NRR/DANU/UARL/PM
NAME	AMuñiz	SLent	BBeasley	AMuñiz
DATE	02/18/2021	2/18/2021	2/18/2021	2/25/2021

OFFICIAL RECORD COPY

List of Attendees

NAME	ORGANIZATION
Robin Rickman	Terrestrial Energy USA (TEUSA)
Frank Akstulewicz	TEUSA
Daniel Carleton	TEUSA
William Smith	Terrestrial Energy, Inc (TEI)
Robert Ion	TEI
Victor Snell	TEI
Hui Lin	TEI
Benjamin Beasley	Nuclear Regulatory Commission (NRC)
Michelle Hayes	NRC
Adrian Muñiz	NRC
Christopher Van Wert	NRC
Hanh Phan	NRC
Marcel De Vos	Canadian Nuclear Safety Commission (CNSC)
Daniel Duchesne	CNSC
Chantal Morin	CNSC
Altan Muftuoglu	CNSC
Lance Sterling	Member of the Public
Austin Clark	Member of the Public