



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

**CANADIAN
NUCLEAR SAFETY COMMISSION**
OTTAWA, ON K1P 5S9



May 27, 2022

Mr. Simon Irish
Chief Executive Officer
Terrestrial Energy, Inc., and
Terrestrial Energy USA, Inc.
537 Steamboat Road, Suite 200
Greenwich, CT 06830

**SUBJECT: CANADIAN NUCLEAR SAFETY COMMISSION – U.S. NUCLEAR
REGULATORY COMMISSION STAFF’S FEEDBACK REGARDING THE
TERRESTRIAL ENERGY USA, INC. WHITE PAPER TITLED, “POSTULATED
INITIATING EVENTS FOR THE IMSR®” (EPID NO.: L-2021-LRO-0074)**

Dear Mr. Irish:

In a letter dated October 22, 2020 (Agencywide Documents Access and Management System (ADAMS) Package Accession No. ML20318A178), Terrestrial Energy USA, Inc. (an affiliate of Terrestrial Energy, Inc.), submitted a white paper titled, “Postulated Initiating Events for the IMSR®.” This white paper was submitted to support a review collaboration activity under the Memorandum of Cooperation on Advanced Reactor and Small Modular Reactor Technologies, signed between the Canadian Nuclear Safety Commission (CNSC) and the U.S. Nuclear Regulatory Commission (NRC) staff. Following this initial submittal, revisions to the white paper addressing joint CNSC/NRC staff questions were submitted in letters dated July 8, 2021, and December 16, 2021 (ADAMS Package Accession Nos. ML21211A518 and ML21357A015, respectively). The CNSC and NRC staff reviewed the white paper and documented its feedback in a joint assessment report provided as an enclosure to this letter.

If you have any questions regarding this matter, please contact Adrian Muñiz at Adrian.Muniz@nrc.gov or Daniel Duchesne at Daniel.Duchesne@cnscccsn.gc.ca.

Sincerely,



Approved by

Dr. Mohammed K. Shams, Director
Division of Advanced Reactors and Non-Power
Production and Utilization Facilities
United States Nuclear Regulatory Commission



Approved by

Dr. Caroline Ducros, Director General
Directorate of Advanced Reactor
Technologies
Canadian Nuclear Safety Commission

Michael Rinker, Director General
Directorate of Assessment and Analysis
Canadian Nuclear Safety Commission

Project No.: 99902076

Enclosure:
As stated

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DATED: MAY 27, 2022

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Terrestrial IMSR Listserv

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ADAMS Accession Nos.:

Package: ML22140A276

Letter: ML22140A382

Enclosure: ML22139A124

***via email**

NRR-106

OFFICE	NRR/DANU/UAL1: PM	NRR/DANU/UAL1: LA*	NRR/DANU/UAL1: BC(A)*	NRR/DANU: D*
NAME	AMuñiz	CSmith	WKennedy	MShams
DATE	05/23/2022	05/23/2022	05/24/2022	05/24/2022

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