



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

July 16, 2020

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

SUBJECT: NRC FEEDBACK REGARDING TERRESTRIAL ENERGY USA WHITE PAPER - INTERFACES BETWEEN THE IMSR CORE-UNIT AND REACTOR AUXILLIARY BUILDING STRUCTURES AND SYSTEMS (EPID NO. L-2020-LRO-0028)

Dear Mr. Irish:

By letter dated May 19, 2020 (Agencywide Documents Access and Management System Accession No. ML20157A195), Terrestrial Energy USA (Terrestrial), submitted for U.S. Nuclear Regulatory Commission (NRC) staff review a proprietary white paper titled "Interfaces Between the IMSR® Core-unit and Reactor Auxiliary Building Structures and Systems."

The white paper identifies and describes the interfaces for structures, systems and components (SSCs) in the Reactor Auxiliary Building that interact directly with the SSCs that comprise the IMSR Core-unit. Terrestrial requested that the NRC staff review the white paper and provide written comments on areas where the white paper does not provide sufficient detail for a clear understanding of the interfaces between the IMSR core unit and the SSCs of the surrounding Reactor Auxiliary Building or where Terrestrial has not identified necessary interfaces. The NRC staff has completed its assessment of the white paper and identified areas that necessitate additional detail as described in the enclosures to this letter. The proprietary and non-proprietary versions of the document containing NRC staff's observations are in Enclosures 1 and 2, respectively.

Enclosure 1 to this letter contains Proprietary information. When separated from Enclosure 1, this document is DECONTROLLED.
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If you have questions about this matter, please contact Adrian Muniz at (301) 415-4093 or by e-mail at Adrian.Muniz@nrc.gov.

Sincerely,

/RA/

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

Project No.: 99902076

Enclosures:
As stated

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ADAMS Accession Nos.: Package: ML20191A198
Cover Letter: ML20191A242
Enclosure 1: ML20191A323 (Non-Public)
Enclosure 2: ML20191A384 (Public-Redacted) *via e-mail

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