



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

February 10, 2026

Dr. Cesare Frepoli
Chief Operating Officer and
Director of Licensing and
Regulatory Affairs
Terra Innovatum s.r.l.
Via Matteo Trenta 117
55100 Lucca, Italy

SUBJECT: U.S. NUCLEAR REGULATORY COMMISSION STAFF FEEDBACK
REGARDING TERRA INNOVATUM S.R.L. WHITE PAPER LTR-TINN-25-012,
“DESIGN CONSIDERATIONS ON REACTOR CORE (FUEL) AT NOMINAL
CONDITIONS,” REVISION 0 (EPID: L-2025-LRO-0037)

Dear Cesare Frepoli:

The purpose of this letter is to communicate the U.S. Nuclear Regulatory Commission (NRC) staff's feedback on the June 8, 2025, white paper (WP) submitted by Terra Innovatum s.r.l. (Terra Innovatum) LTR-TINN-25-012, “Design Considerations on Reactor Core (Fuel) at Nominal Conditions,” Revision 0 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML25159A003). The WP describes how Terra Innovatum integrates standard pressurized water reactor fuel into the design of the SOLO reactor and the conditions under which the SOLO reactor is operated. The NRC staff provided draft feedback and observations to Terra Innovatum to support a discussion during a public meeting on September 15, 2025 (ML26026A146).

C. Frepoli

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The NRC staff's observations are provided in the enclosure to this letter. If you have questions regarding this matter, please contact Jacqueline Tulip via email at Jacqueline.Tulip@nrc.gov or 301-415-5234.

Sincerely,

/RA/

Joshua Borromeo, Chief
Advanced Reactor Licensing Branch 1
Division of Advanced Reactors and Non-Power
Production and Utilization Facilities
Office of Nuclear Reactor Regulation

Project No.: 99902138

Enclosure:
As stated

cc: Terra Innovatum SOLO via GovDelivery

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