
January 22, 2025

XE-2025-001

Project No. 99902118

U.S. Nuclear Regulatory Commission
Document Control Desk
11555 Rockville Pike
Rockville, MD 20852

Re: Submission of X-energy, LLC, XENITH™ White Paper on Transportation and Logistics (T&L)

I am pleased to submit on behalf of X-energy, LLC (X-energy), an enclosed Controlled Unclassified Information (CUI) version of X-Energy's Next-Generation Integrated Transportable High-Temperature (XENITH) microreactor pre-application licensing white paper (WP) that describes, at a conceptual level, the set of expected transportation and logistics (T&L) phases that characterizes the life cycle of structures, systems, and components (SSCs) from their originating factories through their transportation and delivery to a perspective XENITH plant site. This T&L WP was developed using regulations and guidance from the U.S. Nuclear Regulatory Commission (NRC), as well as with XENITH-specific contractual safety and design requirements imposed by X-energy's customers.

The enclosed XENITH T&L WP is provided to the NRC for review and approval as indicated in the report and is expected to be used to influence decisions needed for future XENITH licensing applications. X-energy requests that the NRC provide specific insights and/or feedback on any area identified in the WP, and on any area that might be contrary to X-energy's vision for T&L. X-energy requests that any associated feedback be provided within 60 days of WP's submittal; and that a limited scope of 100 hours be applied to the review. If the NRC staff is unable to provide substantive and/or meaningful feedback within the stated budgetary constraints, X-energy requests that additional discussions be held prior to the requested timeframe for the WP's is completed.

This submittal contains CUI and identified proprietary information from X-energy that are identified with CUI headers/ footers, and redacted proprietary information using brackets ([[]]p). This information shall not be distributed and/or disseminated outside of its intended audience without the consent of the Department of Defense's Strategic Capabilities Office. In conformance with the requirement of 10 CFR Section 2.390, as amended, of the NRC's regulations, we are enclosing with this submittal an Affidavit. The Affidavit sets forth the basis on which the information identified as CUI and identified proprietary information should be withheld from public disclosure.



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This letter contains no commitments. Should you have any questions or require additional information, please contact Michael Dudek at mdudek@x-energy.com.

Sincerely,

Michael I. Dudek
Licensing Manager, XENITH Microreactor Program
X-energy, LLC

Cc:

X-energy, LLC
Robert Taylor
Hans Gougar
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Renee Robinson

U.S. Nuclear Regulatory Commission

John Segala
Patrick Boyle
Paul Mourning

Enclosures:

- (1) Enclosure 1 - XENITH Transportation & Logistics WP - Affidavit
- (2) Enclosure 2 – XENITH Transportation & Logistics WP – WP Rev1 (CUI & PROP (Non-Public))