



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

February 1, 2023

Mr. Travis Chapman Director
U.S. Licensing, Xe-100 Program
X Energy, LLC
801 Thompson Avenue
Rockville, MD 20852

SUBJECT: X ENERGY, LLC – ACKNOWLEDGEMENT OF WITHDRAWAL OF THE
TOPICAL REPORT, “XE-100 LICENSING TOPICAL REPORT: GRAPHITE
QUALIFICATION METHODOLOGY” (EPID NO. L-2022-TOP-0051)

Dear Mr. Chapman:

By letter dated October 31, 2022, Agencywide Documents Access and Management System (ADAMS) Accession No. ML22304A197, X Energy, LLC (X-energy) submitted topical report (TR) “Xe-100 Licensing Topical Report: Graphite Qualification Methodology,” for review by the U.S. Nuclear Regulatory Commission (NRC) staff. The TR describes the method for qualification of graphite core structures used by X-energy for the Xe-100 reactor.

On January 3, 2023, (ML23003A803) X-energy requested to withdraw the TR after further review and discussion with the NRC staff in a closed meeting held on December 14, 2022, (ML22327A049). Accordingly, the NRC staff ceased review of the subject TR and closed the associated Cost Activity Code number.

Prior to X-energy’s request to withdraw the application, the NRC staff performed an initial screening of the report. The enclosure to this letter provides the NRC staff’s feedback for X-energy to consider. If X-energy decides to re-submit the TR, please consider addressing the enclosed feedback in a future submittal.

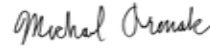
Enclosure 2 to this letter contains Proprietary information. When separated from the Enclosure, this document is DECONTROLLED.
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If you have any questions, please contact me at (301) 415-3229 or via email at Michael.Orenak@nrc.gov.

Sincerely,



Signed by Orenak, Michael
on 02/01/23

Michael D. Orenak, Project Manager
Advanced Reactor Licensing Branch 1
Division of Advanced Reactors and Non-Power
Production and Utilization Facilities
Office of Nuclear Reactor Regulation

Project No.: 99902071

Enclosure:

1. Non-proprietary feedback
2. Proprietary feedback

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SUBJECT: X ENERGY, LLC – ACKNOWLEDGEMENT OF WITHDRAWAL OF THE TOPICAL REPORT, “XE-100 LICENSING TOPICAL REPORT: GRAPHITE QUALIFICATION METHODOLOGY” (EPID NO. L-2022-TOP-0051) DATED: FEBRUARY 2, 2023

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Cc: TChapman@x-energy.com
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ADAMS Accession Nos.

Pkg: ML23020A915

Letter: ML23023A248

Enclosure (Proprietary): ML23023A253

Enclosure (Non-Proprietary): ML23033A544

NRC-001

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NAME	MOrenak			
DATE	2/1/2023			

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