

10 August 2023
Project No. 99902071

2023-XE-NRC-026

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Presentation Materials – Xe-100 Graphite Engagement: Preliminary Safety Analysis Report Content

This letter provides the X Energy, LLC (X-energy) presentation material for the upcoming “Xe-100 Graphite Engagement: Preliminary Safety Analysis Report Content” U.S. Nuclear Regulatory Commission pre-application engagement meeting (Enclosures 2, and 3), on August 24, 2023. The presentation material contains proprietary information; as such, it is requested that Enclosure 3 be withheld from public disclosure per 10 CFR 2.390, “Public inspections, exemptions, requests for withholding.” Redacted information is identified using [[]]. An affidavit certifying the basis for the request to withhold Enclosure 3 from public disclosure is included as Enclosure 1. Proprietary information has been omitted from the presentation materials provided in Enclosure 2 that should be made publicly available.

This letter and enclosures make no new or revised regulatory commitments.

Should you have any questions regarding this presentation, please contact Jon Facemire at jfacemire@x-energy.com.

Sincerely,



Travis A. Chapman
Director, Reactor Licensing & Regulatory Affairs
X Energy, LLC

Enclosures:

- 1) Affidavit Supporting Request for Withholding from Public Disclosure (10 CFR 2.390)
- 2) “Xe-100 Graphite Engagement: Preliminary Safety Analysis Report Content Presentation Material – Open Meeting – Non-Proprietary (Public)
- 3) “Xe-100 Graphite Engagement: Preliminary Safety Analysis Report Content Presentation Material – Closed Meeting – Proprietary (Non-Public)

cc:

X Energy, LLC:
David Bannister
Steve Miller
Martin van Staden
Jon Facemire



X Energy, LLC
801 Thompson Avenue
Rockville, MD 20852
+1 301.358.5600

U.S. Nuclear Regulatory Commission:

Michael Wentzel
Adrian Muniz
Jorge Hernandez
Zackary Stone

Department of Energy – Office of Clean Energy Demonstrations:

Jeff Ciocco
Carl Friesen

Enclosure 1: Affidavit Supporting Request for Withholding from Public Disclosure (10 CFR 2.390)

I, Travis Chapman, Director, Reactor Licensing & Regulatory Affairs, Xe-100 Program, of X Energy, LLC (X-energy) do hereby affirm and state:

1. I am authorized to execute this affidavit on behalf of X-energy. I am further authorized to review information submitted to or discussed with the U.S. Nuclear Regulatory Commission (NRC) and apply for the withholding of information from disclosure. The purpose of this affidavit is to provide the information required by 10 CFR 2.390(b) in support of X-energy's request for proprietary treatment of certain commercial information submitted in Enclosure 3 to X-energy's letter 2023-XE-NRC-026 from myself to the NRC which provides "Xe-100 Graphite Engagement: Preliminary Safety Analysis Report Content" presentation material.
2. I have knowledge of the criteria used by X-energy in designating information as sensitive, proprietary, confidential, and export-controlled.
3. Pursuant to the provision of paragraph (b)(4) of 10 CFR 2.390, the following is furnished for consideration by the NRC in determining whether the information sought to be withheld from public disclosure should be withheld.
 - a. The information sought to be withheld from public disclosure in Enclosure 1 is owned by X-energy. This information was prepared with the explicit understanding that the information itself would be treated as proprietary and confidential and has been held in confidence by X-energy.
 - b. The information sought to be protected in Enclosure 3 is not available to the public.
 - c. The information contained in Enclosure 3 is of the type that is customarily held in confidence by X-energy, and there is a rational basis for doing so. The information X-energy is requesting to be withheld from public disclosure includes technical information related to the design, analysis and operations associated with our Xe-100 high-temperature, gas-cooled, pebble bed advanced reactor design that directly impact our business development and commercialization efforts. X-energy limits access to this proprietary and confidential information in order to maintain confidentiality.
 - d. Enclosure 3 contains information about the planned activities of X-energy related to the development of the Xe-100 design bases, TRISO-X fuel design bases, forecast design development timeframes, and relate to the commercialization strategy for our Xe-100 advanced reactor. Public disclosure of the information contained in Enclosure 3 would create substantial harm to X-energy because it would reveal valuable technical information regarding X-energy's design development, competitive expectations, assumptions, current position and strategy. Its use by a competitor could substantially improve the competitor's position in the design, manufacture, licensing, construction, and operation of a similar competing product.



X Energy, LLC
801 Thompson Avenue
Rockville, MD 20852
+1 301.358.5600

-
- e. The Proprietary Information contained in Enclosure 3 is transmitted to the NRC in confidence and under the provisions of 10 CFR 2.390; it is to be received in confidence by the NRC. The information is properly marked using [[]]P.

I declare under the penalty of perjury that the foregoing is true and correct. Executed on this 10th day of August 2023.

Sincerely,

A handwritten signature in black ink, appearing to read 'T. Chapman', written over a horizontal line.

Travis Chapman
Director, Reactor Licensing & Regulatory Affairs
Xe-100 Program
X Energy, LLC