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31-August-2021

2021-XE-NRC-010

Project No. 99902071

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

Submission of X Energy, LLC (X-energy) Presubmittal Meeting Presentations

The purpose of this letter is to submit the presentations shared during presubmittal meetings on behalf of X Energy, LLC (X-energy). This submission contains material related to the mechanistic source term approach, TRISO-X fuel qualification methodology, and safety analysis methods framework for the Xe-100 reactor design.

These presentations contain commercially sensitive, proprietary information and, as such, X-energy is requesting that this information be withheld from public disclosure in accordance with 10 CFR 2.390, "Public inspections, exemptions, request for withholding," paragraph (a)(4). Additionally, certain proprietary information in these presentations was determined to contain Export Controlled Information (ECI). This information must be protected from disclosure pursuant to 10 CFR 810. An affidavit providing the basis for this request is provided in Enclosure 1. Enclosure 2, 3, and 4 are the proprietary versions of the presentations and are appropriately marked.

If you have any questions or require additional information, please contact Ingrid Nordby at inordby@x-energy.com.

Sincerely,

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

Travis Chapman
U.S. Licensing, Xe-100 Program
X Energy, LLC



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cc:

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Enclosures:

- 1) Affidavit
- 2) Presentation: TRISO-X Fuel Manufacture and Qualification Overview
- 3) Presentation: Xe-100 Licensing Topical Report – Mechanistic Source Term and XSTERM Code Verification and Validation Approach
- 4) Presentation: Safety Analysis Methods Framework (SAMF): X-energy's Approach to Safety Analysis Methods