



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

June 30, 2021

Dr. Martin van Staden
Vice-President, Xe-100 Program Manager
X Energy, LLC
801 Thompson Avenue
Rockville, MD 20852

SUBJECT: X ENERGY, LLC –CNSC-USNRC FEEDBACK REGARDING JOINT REPORT
CONCERNING X-ENERGY’S REACTOR PRESSURE VESSEL
CONSTRUCTION CODE ASSESSMENT WHITE PAPER

Dear Dr. van Staden:

By letter dated July 13, 2020 (Agencywide Documents Access and Management System Accession No. ML20202A598), X Energy, LLC (X-energy), submitted for U.S. Nuclear Regulatory Commission (NRC) the white paper “Reactor Pressure Vessel Construction Code Assessment White Paper” for review and informal feedback on the approach X-energy has taken with regard to code identification, assessment and selection, and the adequacy of the regulatory analysis and conclusions made in the code selection for the reactor pressure vessel (RPV).

In July 2020, X-energy began a Phase 2+ vendor design review (VDR) with the Canadian Nuclear Safety Commission (CNSC). The primary purpose of a VDR is to provide feedback to the vendor about how it is addressing Canadian regulatory requirements and the CNSC’s expectations in its design and design activities. As part of X-energy’s submission for Focus Area 11, Pressure Boundary Design, pursuant to the VDR, X-energy submitted the same RPV construction code assessment white paper that it submitted to the USNRC.

The enclosure of this letter provides both regulators staff’s detailed observations for X-energy to consider.

The Enclosure to this letter contains Proprietary information. When separated from the Enclosure, this document is DECONTROLLED.

If you have questions about this matter, please contact Lucieann Vechioli at Lucieann.VechioliFeliciano@nrc.gov or Sean Belyea at Sean.Belyea@cnsccsn.gc.ca.

Sincerely,

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Dr. Mohamed K. Shams	Dr. Caroline Ducros	Michael Rinker
Division Director	Director General	Director General
Division of Advanced Reactors and Non-Power Production and Utilization Facilities - Office of Nuclear Reactor Regulation	Directorate of Regulatory Improvement and Major Projects Management	Directorate of Assessment and Analysis
Unites States Nuclear Regulatory Commission	Canadian Nuclear Safety Commission	Canadian Nuclear Safety Commission

Project No.: 99902071

Enclosure:
As stated

SUBJECT: X ENERGY, LLC –CNSC-USNRC FEEDBACK REGARDING JOINT REPORT CONCERNING X-ENERGY’S REACTOR PRESSURE VESSEL CONSTRUCTION CODE ASSESSMENT WHITE PAPER DATED JUNE 30, 2021

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ADAMS Accession Nos. Pkg: ML21166A304
Letter: ML21166A294
Enclosure: ML21081A192 (Non-public)

***via -email**

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