



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

July 11, 2023

MEMORANDUM TO: Jacob Zimmerman, Deputy Director
Division of Fuel Management
Office of Nuclear Material Safety
and Safeguards

FROM: Yen-Ju Chen, Senior Project Manager
Storage and Transportation Licensing Branch
Division of Fuel Management
Office of Nuclear Material Safety
and Safeguards

A handwritten signature in black ink, appearing to read "Yen-Ju Chen".

Signed by Chen, Yen-Ju
on 07/11/23

SUBJECT: SUMMARY OF JUNE 23, 2023, PUBLIC MEETING WITH XCEL
ENERGY TO DISCUSS AMENDMENT APPLICATION FOR
PRAIRIE ISLAND INDEPENDENT SPENT FUEL STORAGE
INSTALLATION

On June 23, 2023, the U.S. Nuclear Regulatory Commission (NRC) staff from the Division of Fuel Management held a public meeting with representatives from Xcel Energy. The purpose of the meeting was to discuss Xcel Energy's planned amendment request to revise Prairie Island Independent Spent Fuel Storage Installation technical specification (TS) 4.4, codes and standards, for the TN Americas (TN) TN-40HT casks.

The meeting was noticed on June 9, 2023 (Agencywide Documents Access and Management System [ADAMS] Accession No. ML23159A254). Several members of the public attended this meeting. A partial meeting attendees list is included in the enclosure. The meeting handout (ML23168A003) is available on the NRC public meeting website.

Xcel Energy is fabricating TN-40HT casks through Orano/TN Americas. During the fabrication, TN identified that, for two TN-40HT casks, a required non-destructive examination (NDE) magnetic particle (MT) inspection of the shell flange base material prior to welding was not performed in accordance with the American Society of Mechanical Engineers (ASME) code fabrication sequence as required by the license. Both casks have not been loaded with spent nuclear fuel.

Xcel Energy plans to submit an amendment application to revise TS 4.4 to allow the use of a code alternative to the ASME Boiler and Pressure Vessel code. TN has developed an alternative NDE examination for the base material and weld by using an enhanced radiography (RT) examination or a phased array ultrasonic (PAUT) examination along with RT on the completed weld. TN has completed both RT and PAUT examinations on the two affected

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TN-40HT casks with satisfactory results. The staff requested information in the amendment application to demonstrate the alternative is technically acceptable.

Staff questioned whether this alternative would become a permanent approach and if TN would stop performing the pre-welding examinations. TN stated that it intends to continue performing MT in accordance with ASME code and only intends to use the alternative on the two affected casks. Xcel Energy and TN have entered this incident into their corrective action program and will look into the causes. Xcel will review the NOTE for the proposed TS 4.4 alternative to clarify the intent.

Xcel Energy plans to submit the amendment application by the end of July 2023 and seek the NRC's approval by June 25, 2024, to support fuel loading. The staff requested the need-date information in the application to help the staff prioritize projects and manage resources.

There was no public comment.

Docket No. 72-0010

CAC No. 001028

EPID No. L-2023-LRM-0038

Enclosure:

Partial Meeting Attendee List

SUBJECT: SUMMARY OF JUNE 23, 2023, PUBLIC MEETING WITH XCEL ENERGY TO DISCUSS AMENDMENT APPLICATION FOR PRAIRIE ISLAND INDEPENDENT SPENT FUEL STORAGE INSTALLATION

DOCUMENT DATE: July 11, 2023

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ADAMS Accession Nos.: ML23184A086 (Memo)

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DATE	07/03/2023	07/07/2023	07/07/2023	07/10/2023	07/10/2023
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NAME	DMarcano	DJohnson	TBoyce	YDiaz-Sanabria	YChen
DATE	07/10/2023	07/11/2023	07/11/2023	07/11/2023	07/11/2023

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Partial Meeting Attendee List

The U.S. Nuclear Regulatory Commission Attendees

Tom Boyce, Branch Chief, Materials and Structural Branch
Yen-Ju Chen, Project Manager
Eliezer Goldfeiz, Shielding Reviewer
Darrell Dunn, Materials Reviewer
Loren Howe, Materials Reviewer
Olivia Hunsberger, Summer Hire
JoAnn Ireland, Confinement Reviewer
Christian Jacobs, Project Manager
John-Chau Nguyen, Project Manager
Yoira Diaz Sanabria, Branch Chief, Storage and Transportation Licensing Branch

Xcel Energy Attendees

Mark McKeown – Director of Nuclear Project Management
Lynn Johnson – Manager of Spent Nuclear Fuel Projects
Mike Staley – Design Engineer
Mark Loosbrock – Prairie Island Operations Support Manager
Kara Gibson – Prairie Island Reactor Systems Engineer
Mike Miller – Regulatory Affairs Manager - Licensing
Jeff Kivi – Licensing Engineer

TN Americas Attendees

Marlin Stoltz II - Director of Fabrication Engineering
Duane Spencer – Manager of Cask Fabrication Engineering
Don Shaw – Licensing Manager
Doug Yates – Licensing Engineer

Members of the Public

Carlyn Greene – Senior Vice President, Spent Fuel