



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

September 15, 2021

Mr. Prakash Narayanan
Chief Technical Officer
TN Americas LLC
7160 Riverwood Dr, Suite 200
Columbia, MD 21046

SUBJECT: AMENDMENT NO. 2 TO CERTIFICATE OF COMPLIANCE NO. 1042 FOR THE NUHOMS® EOS SYSTEM (DOCKET NO. 72-1042, CAC NO. 001028, EPID: L-2019-LLA-0078)

Dear Mr. Narayanan:

As requested by your application dated April 18, 2019 (Agencywide Documents Access and Management System (ADAMS) Accession Number ML19114A227), as supplemented on August 5, 2019 (ADAMS Accession Number ML19225C845), October 2, 2019 (ADAMS Accession Number ML19282A518), October 29, 2019 (ADAMS Accession Number ML19311C551), June 30, 2020 (ADAMS Accession Number ML20190A135), October 29, 2020 (ADAMS Accession Number ML20315A417), and January 27, 2021 (ADAMS Accession Number ML21027A324), enclosed is Amendment No. 2 to Certificate of Compliance (CoC) No. 1042 for the NUHOMS® EOS System. The amended certificate constitutes the U.S. Nuclear Regulatory Commission's (NRC) approval for use of the NUHOMS® EOS System for storage of spent nuclear fuel under the general licensing provisions of 10 CFR Part 72, Subparts K and L, subject to the conditions in the amended certificate. This amendment revises the CoC for the NUHOMS® EOS System to include the following changes:

Change No. 1:

Add the 61BTH Type 2 dry shielded canister (DSC) transferred in the OS197 Transfer Cask (TC) for storage in the NUHOMS® MATRIX (HSM-MX) design approved in Amendment 1 to CoC No. 1042. The 61BTH Type 2 DSC design included in this amendment is approved in CoC No. 1004 Amendment 15. The associated design change to the HSM-MX included in this amendment is the addition of spacer blocks at the front and rear DSC supports to maintain the centerline of the DSC in line with the horizontal storage module door centerline.

Change No. 2:

For the EOS-37PTH DSC, add two new heat load zone configurations (HLZCs) for the EOS-37PTH for higher heat load assemblies, up to 3.5 kW/assembly, that also allow for damaged and failed fuel storage.

Change No. 3:

For the EOS-37PTH DSC, add basket type 4H, previously introduced in CoC No. 1042 Amendment 1, for HLZCs 1, 4, 5, 6, 8, and 9.

Change No. 4:

For the EOS-TC108 TC System with the EOS-37PTH DSC, add HLZCs 4 through 9 for the 4H basket and reduce the minimum cooling times to 2 years (HLZC 2 through 9).

Change No. 5:

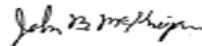
For the EOS-37PTH DSC, increase the control component source terms to better address potential control component sources from various shutdown plants.

Change No. 6:

Certain CoC and Technical Specification items are revised for consistency and clarity.

As stated in the Federal Register (86 FR 44262, August 12, 2021), the effective date of this CoC is October 26, 2021. The NRC safety evaluation report for this amended CoC (including the CoC itself and Technical Specifications) is enclosed. If you have any questions regarding this amended certificate, please contact Mr. Christian Jacobs at (301) 415-6825.

Sincerely,



Signed by McKirgan, John
on 09/15/21

John B. McKirgan, Chief
Storage and Transportation Licensing Branch
Division of Fuel Management
Office of Nuclear Material Safety
and Safeguards

Docket No.: 72-1042
CAC No.: 001028
EPID: 2019-LLA-0078

Enclosures:

1. CoC No. 1042, Amendment No. 2
2. Technical Specifications
3. Final Safety Evaluation Report

CoC 1042 EOS A2 Issuance Package to TN DATE September 15, 2021

DISTRIBUTION:

CJacobs, NMSS/DFM/STLB

WWheatley, NMSS/DFM/STLB

JMcKirgan, NMSS/DFM/STLB

ADAMS Accession No.: ML21244A295; Ltr ML21244A296

OFFICE	NMSS/DFM/STLB	NMSS/DFM/STLB	NMSS/DFM/STLB	NMSS/DFM/STLB
NAME	CJacobs <i>CJ</i>	WWheatley <i>WW</i>	CJacobs <i>CJ</i>	JMcKirgan <i>JM</i>
DATE	Sep 2, 2021	Sep 9, 2021	Sep 14, 2021	Sep 15, 2021

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