



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

September 20, 2021

MEMORANDUM TO: Jill Shepherd, Acting Chief
Materials Rulemaking and Project
Management Branch
Division of Rulemaking, Environmental,
and Financial Support, NMSS

FROM: John McKirgan, Chief
Storage and Transportation Licensing Branch
Division of Fuel Management, NMSS

SUBJECT: USER NEED FOR RULEMAKING FOR CERTIFICATE OF
COMPLIANCE RENEWAL, INITIAL ISSUE (AMENDMENT NUMBER 0),
AND AMENDMENT NUMBER 1 TO TN-68 DRY STORAGE CASK
SYSTEM

On April 9, 2020 (Agencywide Documents Access and Management System (ADAMS) Accession Number ML20100F295), as supplemented on July 29, 2020 (ADAMS Accession Number ML20211L707), February 9, 2021 (ADAMS Accession Number ML21040A406), and March 24, 2021 (ADAMS Accession Number ML21083A029), the applicant submitted an application to renew certificate of compliance (CoC) No. 1027 for the TN-68 Dry Storage Cask System, under the provisions of 10 CFR Part 72, subparts K and L, for a period of 40 years beyond the initial certificate term.

The following information is being provided to request rulemaking support for the following Spent Fuel Management (SFM) 10 CFR Part 72 licensing activity:

1. Changes to 10 CFR 72.214 rule text (changes appear in bold):

Certificate Number: 1027.

Initial Certificate Effective Date: May 30, 2000, **superseded by Renewed Initial Certificate Effective Date: Month DD, Year.**

Amendment Number 1 Effective Date: October 30, 2007, **superseded by Renewed Amendment Number 1 Effective Date: Month DD, Year.**

SAR Submitted by: Transnuclear, Inc., **now TN Americas LLC.**

Renewed SAR Submitted by: TN Americas LLC.

SAR Title: Final Safety Analysis Report for the TN-68 Dry Storage Cask.

Docket Number: 72-1027.

Renewed Certificate Expiration Date: May 28, 2060.

Model Number: TN-68.

CONTACT: Christian Jacobs, NMSS/DFM
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Technical Specifications and Certificate of Compliance Conditions: Proposed Changes

CHANGES TO CERTIFICATE OF COMPLIANCE

1. Added the following condition to the initial CoC (Amendment 0) and Amendment 1:

UFSAR UPDATE FOR RENEWED COC

The CoC holder shall submit an updated final safety analysis report (UFSAR) to the Commission, in accordance with 10 CFR 72.4, within 90 days of the effective date of the renewal. The UFSAR shall reflect the changes and CoC holder commitments resulting from the review and approval of the renewal of the CoC. The CoC holder shall continue to update the UFSAR pursuant to the requirements of 10 CFR 72.248.

2. Added the following condition to the initial CoC (Amendment 0) and Amendment 1:

72.212 EVALUATIONS FOR RENEWED COC USE

Any general licensee that initiates spent fuel dry storage operations with the TN-68 dry storage cask system after the effective date of the CoC renewal and any general licensee operating a TN-68 dry storage cask system as of the effective date of the CoC renewal, including those that put additional storage systems into service after that date, shall:

- a. as part of the evaluations required by 10 CFR 72.212(b)(5), include evaluations related to the terms, conditions, and specifications of this CoC amendment as modified (i.e., changed or added) as a result of the renewal of the CoC;
- b. as part of the document review required by 10 CFR 72.212(b)(6), include a review of the UFSAR changes resulting from the renewal of the CoC and the NRC Safety Evaluation Report related to the renewal of the CoC; and
- c. ensure that the evaluations required by 10 CFR 72.212(b)(7) and (8) capture the evaluations and review described in (a.) and (b.) of this CoC condition.

The general licensee shall complete [this] Condition [13] prior to entering the period of extended operation or no later than one year after the effective date of the CoC renewal, whichever is later.

3. Added the following condition to the initial CoC (Amendment 0) and Amendment 1:

AMENDMENTS AND REVISIONS FOR RENEWED COC

All future amendments and revisions to this CoC shall include evaluations of the impacts to aging management activities (i.e., time-limited aging analyses and aging management programs) to ensure that they remain adequate for any changes to SSCs within the scope of renewal.

CHANGES TO TECHNICAL SPECIFICATIONS

1. Added the following section, “Aging Management Program,” to the initial CoC (Amendment 0) and Amendment 1 as Section 5.2.4:

Aging Management Program

Each general licensee shall have a program to establish, implement, and maintain written procedures for each aging management program (AMP) described in the updated final safety analysis report (UFSAR). The program shall include provisions for changing AMP elements, as necessary, and within the limitations of the approved licensing bases to address new information on aging effects based on inspection findings and/or industry operating experience provided to the general licensee during the renewal period. The program document shall contain a reference to the specific aspect of the AMP element implemented by that program document, and that reference shall be maintained even if the program document is modified.

The general licensee shall establish and implement this program document prior to entering the period of extended operation or no later than one year after the effective date of the CoC renewal, whichever is later. The general licensee shall maintain the program document for as long as the general licensee continues to operate a TN-68 dry storage cask system in service for longer than 20 years.

Docket No.: 72-1027
ADAMS References:

1. User Need Memo to REFS requesting Rulemaking (**ML21174A125**).
2. Proposed Certificate of Compliance No. 1027, Renewed Amendment 0, (**ML21174A126**).
3. Proposed Certificate of Compliance No. 1027, Renewed Amendment 1, (**ML21174A127**).
4. Proposed Technical Specifications for CoC No. 1027, Renewed Amendment No. 0, (**ML21174A129**).
5. Proposed Technical Specifications for CoC No. 1027, Renewed Amendment No. 1, (**ML21174A131**).
6. Preliminary SER for Renewed CoC No. 1027 (**ML21174A128**).

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DOCUMENT DATE: September 20, 2021

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ADAMS Nos.: ML21174A124 (Package); ML21174A125 (Memo) * concurrence via email

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