



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

April 26, 2022.

MEMORANDUM TO: Yoira Díaz Sanabria, Deputy Director  
Division of Fuel Management  
Office of Nuclear Material Safety  
and Safeguards

FROM: Norma García Santos, Project Manager  
Storage and Transportation Licensing Branch  
Division of Fuel Management  
Office of Nuclear Material Safety  
and Safeguards

SUBJECT: SUMMARY OF MARCH 15, 2022, MEETING WITH GESELLSCHAFT FÜR  
NUKLEAR-SERVICE MHB TO DISCUSS THE APPLICATION AND REQUESTS  
FOR SUPPLEMENTAL INFORMATION FOR THE CERTIFICATE OF  
COMPLIANCE FOR THE MODEL NO. CASTOR GEO69 STORAGE SYSTEM  
(DOCKET NO. 72-1052)

Background

On March 15, 2022, a public meeting was held virtually, at the request of Gesellschaft Für Nuklear-Service mHb (GNS-mHb) with the U.S. Nuclear Regulatory Commission (NRC) staff (Agencywide Documents Access and Management System (ADAMS) Accession No. ML22046A030). The meeting was noticed in the NRC's public website (ADAMS Accession No. ML22061A156) as an Observation meeting with a portion closed to the public due to proprietary content. The notice included the agenda for the meeting. Enclosure 1 includes the list of participants. Enclosure 2 includes the presentation slides discussed in the portion of the meeting open to the public (ADAMS Accession No. ML22046A028).

Discussion

The purpose of the meeting was to discuss details related to the request to NRC from GNS-mHb for certifying the Model No. CASTOR geo69 storage system and the requests for supplemental information (RSIs) submitted by the staff. The applicant submitted this request by letter dated May 3, 2021 (ADAMS Accession No. ML21126A156). The Model No. CASTOR geo69 is a new storage system for transporting spent fuel assemblies. The following section includes a summary of the discussion during the public portion of the March 15<sup>th</sup> meeting.

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### Summary

Besides applying for the Model No. CASTOR geo69 storage system, the applicant also applied for the approval of a package design for the Model No. CASTOR geo69. The applicant mentioned that they had submitted a quality assurance plan for NRC's approval under Docket No. 71-0967.

The applicant proceeded to briefly discuss and explain their approach for submitting the storage and transportation applications. The applicant explained that the transportation and storage designs are usually submitted together in Germany for review. Currently, the storage application references information of the application for the package's design. The applicant further explained the following about status in Germany regarding storage facilities and systems:

- 1) 12 on site storage facilities at nuclear power plants;
- 2) 2 central intermediate storage facilities;
- 3) no standalone certificates for dry storage systems;
- 4) dry storage systems are included in the license for storage facilities;
- 5) Separate regulatory authorities; and
- 6) no general applicable requirements (like general licensees in the U.S.).

As previously explained to the applicant, the staff commented that given the current regulatory infrastructure in the U.S. storage and transportation applications are submitted separately. One of the reasons is the criteria in 10 CFR 72.48 for screening changes that require an amendment to the certificate of compliance for a storage system or changes that can be made without previous NRC's approval. Since this topic has been previously discussed with the staff, the applicant mentioned that they already decided to split the storage and transportation as standalone applications. The staff asked if there are regulations like 10 CFR 72.48 in Germany. The applicant replied that there is no comparable process in Germany. Therefore, the 10 CFR 72.48 criteria and process is new for the applicant. The applicant explained that the German competent authority participates on the manufacturing of each cask.

The applicant also explained that they defined a generic environment as well as boundary conditions for the design of the storage system. The applicant mentioned that they use the following guidance to develop the application:

- 1) Regulatory Guide 3.61
- 2) NUREG-2215 and applicable reference documents (with exception of chapters only applicable to specific licenses).

Then, the applicant proceeded to answer a few questions from the audience. After answering questions, the applicant started the closed portion of the meeting.

Docket No. 72-1052

EPID No. L-2021-NEW-0006

Enclosures:

1. Meeting Attendees
2. Presentations Slides

cc: Attendees

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DOCUMENT DATE:

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**C = COVER    E = COVER & ENCLOSURE    N = NO COPY**

**ADAMS Package Accession No.: ML**

OFFICE	DFM	E	DFM	N	DFM	N
NAME	NGarcía Santos		WWheatley by email		YDiaz Sanabria by email	
DATE	4/25/22		4/26/22		4/26/22	

**OFFICIAL RECORD COPY**

**Public Meeting**  
**Model No. CASTOR geo69 Storage System**

**Amendment No. 0**  
**Docket No. 72-1052**

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March 15, 2022  
9:00 A.M. – 12:00 P.M. (EST)  
Location: MS Teams

Attendees List

<b>Name</b>	<b>Organization</b>
<b>Norma García Santos</b>	NRC
<b>Bernard IV White</b>	NRC
<b>Christopher Bajwa</b>	NRC
<b>Joseph Borowsky</b>	NRC
<b>Michel Call</b>	NRC
<b>Darrell Dunn</b>	NRC
<b>Daniel Forsyth</b>	NRC
<b>Omar Khan</b>	NRC
<b>Sumit Samaddar</b>	NRC
<b>Alexis Sotomayor</b>	NRC
<b>John Wise</b>	NRC
<b>John Woodfield</b>	NRC
<b>David Bergant</b>	GNS mHb
<b>Dominik Bussmann</b>	GNS mHb
<b>Maksym Chernykh</b>	GNS mHb
<b>Ingo Eichmann</b>	GNS mHb
<b>Tobias Fischer</b>	GNS mHb
<b>Harald Greza</b>	GNS mHb
<b>Micheal Nekipelov</b>	GNS mHb
<b>Moritz Riebisch</b>	GNS mHb
<b>Sven Tittelbach</b>	GNS mHb
<b>Jan Boudart</b>	Nuclear Energy Information Service (NEIS)
<b>Carlyn Green</b>	SpentFUEL and Store FUEL, UxC