



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

September 9, 2025

MEMORANDUM TO: Mahmoud Jardaneh, Chief
New Reactor Licensing Branch
Division of New and Renewed Licenses
Office of Nuclear Reactor Regulation

FROM: Victoria V. Huckabay, Senior Project Manager /RA/
Licensing and Regulatory Infrastructure Branch
Division of New and Renewed Licenses
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF THE JUNE 26, 2025, PUBLIC MEETING WITH SMR,
LLC (A HOLTEC INTERNATIONAL COMPANY) TO DISCUSS
SMR-300 COMBUSTIBLE GAS CONTROL CONSIDERATIONS FOR
THE IN-CONTAINMENT SPENT FUEL POOL

Meeting Information:

Vendor: SMR, LLC (SMR), A Holtec International Company (Holtec)

Docket No.: 99902049

Meeting Title: SMR-300 Combustible Gas Control Considerations for the In-Containment Spent Fuel Pool

Meeting Date: June 26, 2025

Meeting Type: Partially Closed

Public Meeting Notice Agencywide Documents Access and Management System (ADAMS)

Accession No.: [ML25176A104](#)

Meeting Attendees: See Enclosure 1 for list of meeting attendees

Enclosure 2 to this letter contains Proprietary Information. When separated from Enclosure 2, this letter is DECONTROLLED.

CONTACT: Victoria V. Huckabay, NRR/DNRL/NLIB
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Meeting Summary:

The U.S. Nuclear Regulatory Commission (NRC) staff conducted the meeting in accordance with NRC Management Directive 3.5, "Attendance at NRC Staff-Sponsored Meetings" ([ML21180A271](#)). SMR (Holtec) provided an overview of the regulatory requirements and guidance for combustible gas control considerations and highlighted unique design features of SMR-300, which include a spent fuel pool (SFP) located inside the containment.

During the open portion of the meeting, SMR (Holtec) stated that there is no regulatory requirement or guidance for combustible gas control for the SFP ([ML25167A330](#)). The NRC staff pointed out that the regulations in Title 10 of the *Code of Federal Regulations* (10 CFR) Section 50.44 require that the applicant consider all spent fuel located inside the containment rather than just fuel that is located in the reactor core. SMR (Holtec) explained that it has evaluated the risk of SFP uncover that would lead to hydrogen generation and determined that it would be negligible. SMR (Holtec) also suggested that it may consider other options, such as requesting an exemption from certain provisions of 10 CFR 50.44.

SMR (Holtec) asked the NRC staff if 10 CFR 55.44(c) is the correct section of the regulations that would be applicable to SMR-300. The NRC staff responded affirmatively and added that other paragraphs in the regulations at 10 CFR 50.44 would also apply. Following the conclusion of the meeting, the NRC staff offered the following clarification: either 10 CFR 50.44(c) or 10 CFR 50.44(d) would apply to SMR-300, depending on the type and quantity of cladding materials used for the reactor fuel.

At the end of the open portion of the meeting, members of the public were invited to provide comments or ask the NRC staff questions pertaining to the scope of the meeting. One member of the public provided several comments, one of which was considered within the scope of the meeting. The commenter expressed a concern with potentially high humidity inside the containment in the event of a boil-off. In response to the comment, the NRC staff stated that the potential issue with humidity would be reviewed by the staff during the accident analysis evaluation.

Enclosures:

1. List of Attendees
2. Meeting Minutes – Closed Portion
(non-public)

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COMBUSTIBLE GAS CONTROL CONSIDERATIONS FOR THE IN-
CONTAINMENT SPENT FUEL POOL
DATED: SEPTEMBER 9, 2025

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ADAMS Accession Nos.:**Package: ML25223A157****Memo: ML25223A160****Enclosure 2: ML25223A161****via email****NRC-001**

OFFICE	NRR/DNRL/NLIB:PM	NRR/DNRL/NLIB:LA*	NRR/DNRL/NRLB BC*	NRR/DNRL/NLIB:PM
NAME	VHuckabay	SGreen	MJardaneh	VHuckabay
DATE	08/11/2025	08/11/2025	08/20/2025	09/09/2025

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June 26, 2025, Public Meeting with SMR (Holtec) to Discuss SMR-300 Combustible Gas Control Considerations for the In-Containment Spent Fuel Pool

Meeting Attendees

Name	Organization
Victoria Huckabay	U.S. Nuclear Regulatory Commission (NRC)
Milton Valentin	NRC
Jobin Binu Daniel	NRC
Raul Hernandez	NRC
Harry Wagage	NRC
Steven Alferink	NRC
Brian Lee	NRC
Benjamin Rothberg	NRC
Emmanuel Sayoc	NRC
Rob Atienza	NRC
Cade Gertsen	SMR (Holtec)
Jake Dolecki	SMR (Holtec)
Clark Shurtleff	SMR (Holtec)
Monica Haneman	SMR (Holtec)
Rick Rosas	SMR (Holtec)
Hovhannes Hovhannisyan	SMR (Holtec)
Sarah Horacek	SMR (Holtec)
Henry Kohn	
Rod Cook	
Michael Keegan	
Spencer Toohill	
Daniela Serrano Diaz	