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

May 18, 2026

MEMORANDUM TO: Michelle W. Hayes, Chief
Licensing and Regulatory Infrastructure Branch
Division of New and Renewed Licenses
Office of Nuclear Reactor Regulation

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

Signed by Huckabay, on 05/18/26

SUBJECT: SUMMARY OF THE MARCH 31, 2026, PUBLIC MEETING WITH SMR, LLC (A HOLTEC INTERNATIONAL COMPANY) TO DISCUSS THE APPROACH FOR ADDRESSING GENERIC SAFETY ISSUE 191 FOR SMR-300 DESIGN

Meeting Information:

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

Docket No.: 99902049

Meeting Title: Public Meeting with SMR (Holtec) to discuss the Approach for Addressing Generic Safety Issue (GSI) 191 for SMR-300 Design

Meeting Date: March 31, 2026

Meeting Type: Partially Closed

Public Meeting Notice Agencywide Documents Access and Management System (ADAMS) Accession No.: ML26084A632

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.

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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) presented its approach to addressing the GSI-191 safety issue for the SMR-300 design, proposing to leverage existing pressurized water reactor (PWR) industry experience, testing, and analysis (presentation slides at ML26083A374). SMR (Holtec) sought NRC staff feedback on whether this prior work, combined with disciplined design practices, could serve as an adequate technical basis without requiring a new plant-specific debris analysis. The NRC staff provided a preliminary list of questions to SMR (Holtec), to facilitate the discussion during the meeting (ML26090A034).

During the open portion of the meeting, SMR (Holtec) explained that it plans to utilize a graded approach where it would first seek to establish that the governing physical mechanisms are unchanged from those already addressed for PWRs and then compare the SMR-300 design features and margins against the accepted PWR methodology. Finally, SMR (Holtec) plans to perform a focused bounding evaluation for the most limiting case in order to confirm that the long-term cooling remains protected. Therefore, SMR (Holtec) plans to do some level of plant-specific analysis that is confirmatory and bounded.

SMR (Holtec) stated that for the chemical effects guidance, it plans to utilize the publicly available information contained in Westinghouse Electric Corporation’s “WCAP” guidance documents issued by the PWR Owners Group. Additionally, SMR (Holtec) plans to partner with Serco and use their CASA Grande software code which already considers the chemical effects.

SMR (Holtec) discussed the reflective metal insulation (RMI) in the SMR-300 design, including considerations for containment cleanliness, zone of influence, and limitations for instrument lines. SMR (Holtec) highlighted the intent to maximize the use of RMI inside containment and minimize the use of fibrous material as much as possible, noting, however, that that some fibrous material will be used for insulation or other purposes inside containment. SMR (Holtec) also noted that it has not yet determined the zone of influence for each postulated break.

SMR (Holtec) stated that the strainer design would be based on the bounding case scenario, which will be determined based on the worst-case debris profile and the worst-case head loss. SMR (Holtec) clarified that while the SMR-300 design uses natural circulation, the reference to the net positive suction head (NPSH) on slide 8 of the presentation was to relate the information to the existing PWR fleet data.

The NRC staff noted that the information provided by SMR (Holtec) so far is not yet detailed enough in order for the staff to provide feedback on whether or not the proposed methodology would be acceptable. The NRC staff recommended using guidance in Regulatory Guide 1.82, while acknowledging that prior experience and previously accepted methodologies can be referenced but are not sufficient alone for making safety findings. The NRC staff offered that the applicant would likely need to define a source term for each debris type and ensure that the source term is bounding. The analysis would have to demonstrate that that the source term would not have upstream or downstream effects, or affect fuel performance, strainer performance, or the recirculation. During application review, the NRC staff would look to confirm that the models and references used are valid and the calculations and comparisons are acceptable.

SMR (Holtec) asked about the level of detail for the debris analysis information that would have to be provided with the application. The NRC staff responded that preliminary design and

methodology would be sufficient for the construction permit application, and remaining information can be provided with the operating license application. The NRC staff also offered that while leveraging prior experience and existing test data is encouraged, SMR (Holtec) would need to demonstrate that the existing database is applicable and may be used to provide bounding analysis.

There were no questions or comments from members of the public during the meeting.

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

SUBJECT: SUMMARY OF THE MARCH 31, 2026, PUBLIC MEETING WITH SMR, LLC (A HOLTEC INTERNATIONAL COMPANY) TO DISCUSS THE APPROACH FOR ADDRESSING GENERIC SAFETY ISSUE 191 FOR SMR-300 DESIGN DATED: MAY 18, 2026

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ADAMS Accession Nos.:
Package: ML26123A001
Memo: ML26123A002
Enclosure 2: ML26123A003
e-Concurrence case: 20260503-90001

March 31, 2026, Public Meeting WITH SMR, LLC (A Holtec International Company)
To Discuss the Approach for Addressing Generic Safety Issue 191 for SMR-300 Design

Meeting Attendees

Name	Organization
Victoria Huckabay	U.S. Nuclear Regulatory Commission (NRC)
Andrea Johnson	NRC
Robert Beaton	NRC
Matthew Yoder	NRC
Sean Piela	NRC
Antonio Barrett	NRC
Shanlai Lu	NRC
Paul Klein	NRC
Steve Smith	NRC
Ahsan Sallman	NRC
Syed Haider	NRC
Julie Winslow	NRC
Andrea Russell	NRC
Jay Robinson	NRC
Jake Davis	NRC
Monica Haneman	SMR (Holtec)
Phil Lashley	SMR (Holtec)
Hiral Kadakia	SMR (Holtec)
Rick Rosas	SMR (Holtec)
Justin Hawkins	SMR (Holtec)
Chuck Bullard	SMR (Holtec)
Clay Lietwiler	SMR (Holtec)
Christina Steele	SMR (Holtec)
Fabio Veronese	SMR (Holtec)
Jackson Coyle	SMR (Holtec)
Michael Mlynarek	SMR (Holtec)
Dylan Tomlin	SMR (Holtec)
Devshibhai Ziyad	SMR (Holtec)
Nathan Miller	Transco Products
Bruce Letellier	Serco North America
Andrew Roudenko	Serco North America
Addison Hall	Dominion Energy
PJ Seel	The Breakthrough Institute
Olivia Kim	