



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

November 25, 2022

MEMORANDUM TO: Michael I. Dudek, Chief
New Reactor Licensing Branch
Division of New and Renewed Licenses
Office of Nuclear Reactor Regulation

FROM: Gregory Cranston, Senior Project Manager */RA/*
New Reactor Licensing Branch
Division of New and Renewed Licenses
Office of Nuclear Reactor Regulation

SUBJECT: U.S. NUCLEAR REGULATORY COMMISSION SUMMARY OF
THE OCTOBER 18, 2022, PREAPPLICATION PUBLIC MEETING
WITH SMR, LLC TO DISCUSS CONTROL ROD DRIVE SYSTEM
REACTIVITY CONTROL

The U.S. Nuclear Regulatory Commission (NRC) held a preapplication public meeting on October 18, 2022, with SMR, LLC (SMR), a Holtec International Company, to discuss questions regarding the control rod drive system (CRDS) to support the construction permit application for their SMR-160 design. Specifically, SMR requested the meeting to provide the NRC staff with a high-level overview of the SMR-160 CRDS design and the associated NRC Standard Review Plan Section 3.9.4 testing provisions and to discuss acceptable analytical methods that can be used in lieu of prototype testing. SMR also discussed industry experience and plant referenced designs that preclude the use of analytical methods.^{1,2} The mechanical aspects of the SMR-160 CRDS were discussed previously during a meeting on September 13, 2022.³

The public meeting was followed by a closed session to discuss proprietary information on the same topics discussed in the public portion of the meeting. This virtual preapplication meeting had attendees from SMR and the NRC staff. Three members of the public participated in the public portion of the meeting.

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- ¹ SMR, LLC, "Preapplication Materials for September 13, 2022 (Project No. 99902049," dated September 13, 2022. Agencywide Documents and Access Management System (ADAMS) Accession No. ML22256A019.
- ² U.S. NRC, NUREG-0800, "Standard Review Plan for the Review of Safety Analysis Reports for Nuclear Power Plants: LWR Edition (NUREG-0800, Formerly issued as NUREG-75/087)," Chapter 3, "Design of Structures, Components, Equipment, and Systems," Section 3.9.4, "Control Rod Drive Systems," ADAMS Accession No. ML16133A472.
- ³ U.S. NRC, "9-13-22 Summary of the Observation Public Meeting with SMR, LLC, to discuss Control Rod Drive System," dated September 30, 2022, ADAMS Accession No. ML22252A181.

The NRC issued the public meeting notice on September 30, 2022, and posted it on the NRC public website.⁴

Enclosed are the meeting agenda (Enclosure 1), list of participants for the meeting (Enclosure 2), and a summary of the meeting (Enclosure 3).

Docket No. 99902049

Enclosures:

1. Meeting Agenda
2. List of Attendees
3. Summary of Meeting

⁴ U.S. NRC, "10/18/2022 Preapplication Meeting with SMR, LLC (A Holtec International Company) regarding reactivity control aspects of the control rod drive system to support the Construction Permit for the SMR-160 design," dated September 13, 2022, ADAMS Accession No. ML22256A151.

SUBJECT: U.S. NUCLEAR REGULATORY COMMISSION SUMMARY OF THE
OCTOBER 18, 2022, PREAPPLICATION PUBLIC MEETING WITH SMR, LLC
(HOLTEC) TO DISCUSS CONTROL ROD DRIVE SYSTEM REACTIVITY
CONTROL
DATED: NOVEMBER 25, 2022

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ADAMS Accession Nos.:**PKG: ML22263A420****Memo: ML22263A422****Enclosure 1: ML22263A421****Enclosure 2: ML22263A434****Enclosure 3: ML22263A435*****via email****NRR-106**

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OFFICE	NRR/DNRL/NRLB			
NAME	GCranston			
DATE	11/25/2022			

OFFICIAL RECORD COPY

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Revised 08/15/2022

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