



SMR, LLC. A Holtec International Company
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November 26, 2025

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Subject: SMR, LLC Submittal of SMR-300 Time-Domain LS-DYNA Soil Structure
Interaction Analysis Methodology Licensing Topical Report (Project No.
99902049)

SMR, LLC is pleased to submit the licensing topical report, "SMR-300 Time-Domain LS-DYNA Soil Structure Interaction Analysis Methodology Licensing Topical Report," HI-2251837 R0. SMR, LLC notified the NRC of its intent to submit this licensing topical report during a pre-application public meeting held on November 8, 2023 (ML23339A050). SMR, LLC respectfully requests the NRC review and approve that the methodology described in the report is technically acceptable and consistent with current regulations.

SMR, LLC respectfully requests NRC acceptance review be completed and a review schedule be provided within 60 days of the receipt of this letter.

If you have any questions or require any additional information, please contact Phil Lashley, Director of Licensing, SMR, at p.lashley@holtec.com, 856-559-3783.

Respectfully,

Phil Lashley
Director of Licensing, SMR, LLC

Enclosures:

1. "SMR-300 Time-Domain LS-DYNA Soil Structure Interaction Analysis Methodology Licensing Topical Report," HI-2251837 R0, Proprietary
2. "SMR-300 Time-Domain LS-DYNA Soil Structure Interaction Analysis Methodology Licensing Topical Report," HI-2251837 R0, Nonproprietary
3. "Validation of a Simplified Fluid Structure Interaction Modeling Approach Used for the Seismic System Analysis of SMR-300," HI-2251326 R0, Proprietary
4. "Validation of LS-DYNA for Soil Structure Interaction Analysis," HI-2251120 R0, Proprietary
5. Affidavit Pursuant to 10 CFR 2.390 to Withhold Information from Public Disclosure, Nonproprietary



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