

28 January 2025

Project No. 99902035

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

Subject: Studsvik Scandpower, Inc. Request for Approval of Topical Report SSP-14-P01/028-TR Supplement 1, Generic Application of the Studsvik Scandpower Core Management System to Pressurized Water Reactors: Supplement for Extended Enrichment, Burnup, and SMRs

References:

- [1] SSP-14/P01-028-TR-P-A, Revision 0, "Generic Application of the Studsvik Scandpower Core Management System to Pressurized Water Reactors," September 2017. [ML17279A986]
- [2] 27Jun2024 Studsvik Pre-Submittal Meeting. [ML24177A265]

Studsvik Scandpower is submitting the subject Topical Report Supplement 1 to extend the range of applicability of the CMS5 Generic PWR Topical Report SSP-14-P-01/028-TP-A [1] for higher enrichment, higher burnup, and stated applicability to light water pressurized Small Modular Reactors (SMRs). This Topical Report Supplement 1 is provided for NRC review and approval as reference in licensing submittals to NRC by new or existing CMS5 users seeking to apply the CMS5 Generic PWR Topical Report [1] to the extended application range. The preliminary scope and schedule for submittal of this Topical Report Supplement 1 was discussed in a closed meeting with NRC staff on 27 June 2024 [2]. At that time, Studsvik Scandpower expected a Standard Review process and associated timeline, however Studsvik Scandpower may request an accelerated timeline aligned with anticipated licensees' submittals aiming to invoke the CMS5 extended application range.

This Topical Report Supplement 1 contains information deemed non-proprietary by Studsvik Scandpower, Inc. As such, there is no "-P" version nor affidavit to withhold information from the public included in the transmittal.

For any questions or concerns, please contact me at telephone: 910 880 5668, or email: phil.sharpe@studsvik.com

Thank you and best regards,

Phil Sharpe
VP Applications

Enclosures:

1. Topical Report SSP-14-P01/028-TR Supplement 1, Generic Application of the Studsvik Scandpower Core Management System to Pressurized Water Reactors: Supplement for Extended Enrichment, Burnup, and SMRs

Cc: (without enclosures)

Demetrius Murray, Project Manager, Licensing Projects Branch