



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

July 18, 2024

MEMORANDUM TO: Gerond A. George, Chief  
Licensing Projects Branch  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

FROM: Daniel G. King, Project Manager */RA/*  
Licensing Projects Branch  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF THE JUNE 27, 2024, PARTIALLY CLOSED  
HYBRID PRE-SUBMITTAL MEETING WITH STUDSVIK  
SCANDPOWER INC. REGARDING A SUPPLEMENT TO  
TOPICAL REPORT SSP-14-P01/028-TR-P-A, "GENERIC  
APPLICATION OF THE STUDSVIK SCANDPOWER CORE  
MANAGEMENT SYSTEM TO PRESSURED WATER  
REACTORS" (EPID L-2024-LRM-0056)

On June 27, 2024, the U.S. Nuclear Regulatory Commission (NRC) staff held a partially closed (open session and closed session) with representatives from Studsvik Scandpower Inc. (Studsvik). The purpose of the meeting was for the NRC staff and the Studsvik representatives to conduct pre-submittal discussions on a supplement to Topical Report (TR) SSP-14-01/028-TR-P-A, "Generic Application of the Studsvik Scandpower Core Management System to Pressured Water Reactors" (Agencywide Documents Access and Management System (ADAMS) Accession No. ML17236A419). The meeting was noticed on June 12, 2024, and is available at ADAMS Accession No. ML24179A003. The Studsvik presentation materials are available at ADAMS Accession No. ML24177A265.

The meeting was conducted as a hybrid meeting with attendees joining either in-person in an NRC conference room, or online via Microsoft Teams. Studsvik representatives attended the meeting in-person and online with additional industry representatives. No members of the public were in attendance. A list of meeting attendees is enclosed.

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301-415-7646

**NOTICE: Enclosure 2 is proprietary.**

Gerond George, Chief of the Licensing Projects Branch (LLPB) of the Division of Operating Reactor Licensing (DORL) in the Office of Nuclear Reactor Regulation (NRR), and Phil Sharpe from Studsvik provided opening remarks. Studsvik representatives then provided a background of the existing TR, SSP-14-P01/028-TR-P-A, "Generic Application of the Studsvik Core Management System to Pressurized Water Reactors" (ADAMS Accession No. ML17236A419). Then the Studsvik representatives outlined the updated limitations and conditions the revision or supplement would provide: (1) Increase enrichment limitation from 5 to 10 weight percent U-235, (2) Increase rod average burnup limit to a fuel vendor specified limit, and (3) Acknowledgement that the current CMS5 methodology can be applied to boron controlled pressurized water reactor and small modular reactors (SMRs). Lastly, a summary, and next steps for future interactions were provided. Studsvik plans to submit the supplement in the third quarter of calendar year (CY) 2024. A standard review was requested per LIC-500, "Topical Report Process" (Accession No. ML20247G279), without utilization of contract support or fee exemption per Title 10 of the *Code of Federal Regulation* (10 CFR) 170.11, by December CY 2026.

The NRC staff then asked clarification questions on the applicability of CMS5 methodology with SMRs. The NRC staff and representatives from Studsvik discussed scheduling and resource considerations associated with this review. There were no questions from members of the public. During the closed session the NRC staff requested specific methodology information utilized as a basis for the proposed changes. The discussion questions regarding proprietary information are described in Enclosure 2. No regulatory decisions were made in the meeting.

Docket No. 99902035

Enclosures:

1. List of Attendees
2. Proprietary Discussion Questions

## Pre-Submittal Meeting List of Attendees

June 27, 2024

<b>U.S. Nuclear Regulatory Commission (NRC)</b>	
<b>First Name</b>	<b>Last Name</b>
Alex	Collier
Vic	Cusumano
James	Delosreyes
Kevin	Heller
Gerond	George
Daniel	King
Demetrus	Murray

<b>Non-NRC</b>		
<b>First Name</b>	<b>Last Name</b>	<b>Organization (if provided)</b>
Tamer	Bahadir	Studsvik Scandpower Inc. (Studsvik)
David	Bortz	Duke Energy (Duke)
Damon	Bryson	Duke
Adam	Donell	Constellation Nuclear (Constellation)
Keith	Drudy	Studsvik
Steve	Ehrensberger	Dominion Energy (Dominion)
James	Eller	Duke
Gerardo	Grandi	Studsvik
Petri	Guimaraes	Studsvik
Monica	Haneman	Holtec International (Holtec)
Danielle	Harris	Duke
Tao	He	Constellation
Joshua	Hykes	Studsvik
Behrooz	Khorsandi	Constellation
Casey	McLynden	Constellation
Rodolfo	Mike Ferrer	Studsvik
Ciara	Miker	Constellation
Kirsten	Pfingsten	Constellation
Geoff	Pihl	Duke
Joel	Rhodes	Studsvik
Duncan	Robinson	Duke
Matthew	Rybenski	Duke
Phil	Sharpe	Studsvik
Ghada	Shkoukani	Holtec
Scott	Thomas	Duke
Quinn	VanderMeersch	Constellation
Brian	Vitello	Dominion
Christopher	Wells	Dominion
Art	Wharton	Studsvik
Laith	Zaidan	Holtec

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External: [phil.sharpe@studsvik.com](mailto:phil.sharpe@studsvik.com)

**ADAMS Accession Nos.:**

- ML24179A333 (Package)**
- ML24179A324 (Summary)**
- ML24179A332 (Enclosure 2- Proprietary)**
- ML24177A271 (Open Session Slides)**
- ML24178A120 (Affidavit)**
- ML24178A122 (Nonproprietary Presentation)**
- ML24178A123 (Redacted Presentation)**
- ML24178A124 (Proprietary Presentation)**
- ML24179A003 (Notice)**

**eConcurrence**

OFFICE	NRR/DORL/LLPB PM*	NRR/DORL/LLPB LA*	NRR/DORL/LLPB BC*	NRR/DORL/LLPB PM*
NAME	DKing	DHarrison	GGeorge	DKing
DATE	6/27/2024	7/16/2024	7/17/2024	7/18/2024

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