



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

August 26, 2024

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

FROM: Ngola A. Otto, Project Manager */RA/*
Licensing Projects Branch
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF JULY 23, 2024, PRE-SUBMITTAL MEETING WITH
FRAMATOME INC. AND THE U.S. NUCLEAR REGULATORY
COMMISSION FOR INSTRUMENTATION AND CONTROL SAFETY
SYSTEMS TXS-COMPACT TOPICAL REPORT
(EPID L-2024-LRM-0087)

On July 23, 2024, the U.S. Nuclear Regulatory Commission (NRC) staff held a partially closed hybrid meeting via Microsoft Teams with representatives from Framatome Inc. (Framatome). This included both open and closed session discussions. The purpose of the meeting was for the NRC staff and Framatome representatives to hold pre-submittal discussions on the planned TXS-Compact topical report (TR). The meeting notice is available in the Agencywide Documents Access and Management System (ADAMS) at Accession No. ML24204A056.

During the open session discussion, Framatome representatives provided an overview of their digital instrumentation and control (I&C) nuclear business and systems and highlighted several I&C projects worldwide including new builds and modernization projects. The Framatome representatives also provided several worldwide TXS Compact projects as references to the technology used in nuclear applications. The important aspects of the TXS Compact Platform were also highlighted. During the discussions, the Framatome representatives addressed the NRC staff questions. There were no questions or comments from members of the public.

During the closed session discussion, Framatome representatives provided comprehensive details about the TXS Compact Platform including its concept, modules, system programming, and qualification concept. The Framatome representatives also described the overall content of

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the TXS Compact TR, including its description, diagnostics and monitoring, equipment qualification, platform communications, lifecycle management, reliability, failure modes and effects analysis, quality assurance, and security. In addition, the Framatome representatives provided a list of supporting documentation that would be available for submittal to the NRC to support the NRC staff's review. The Framatome representatives also addressed several NRC staff questions and made the NRC staff aware of customers who were interested in implementing the TXS Compact Platform to support plant operations. The NRC staff's questions focused on:

- Function of the TXS Platform
- Whether TXS Compact Platform would be an addition, replacement, and how it would be integrated into an existing system
- Qualification
- What will be done at licensing
- Any problems or challenges with the algorithm
- System validation
- Self-tests done at startup

After the pre-submittal meeting, Framatome submitted for review and approval ANP-10357P, Revision 0, "TXS Compact Platform Topical Report," by letter dated August 2, 2024 (ADAMS Package Accession No. ML24218A279). The NRC staff is currently conducting the acceptance review.

Docket No. 99902041

Enclosure:
List of Attendees

List of Attendees

Partially Closed Meeting between Framatome Inc. and the U.S. Nuclear Regulatory
Commission on Instrumentation and Control Safety Systems

TXS-Compact Topical Report

July 23, 2024

1:00 pm – 5:00 pm

<u>NAME</u>	<u>ORGANIZATION</u>
Phil Opsal	Framatome Inc. (Framatome)
Lawrence Erin	Framatome
Anthony Chu	Framatome
Stephane Nouketchessi-Simo	Framatome
Mathieu Allory	Framatome
Mehdi El Ouafi	Framatome
Joseph Ashcraft	U. S. Nuclear Regulatory Commission (NRC)
Norbert Carte	NRC
Calvin Cheung	NRC
Gerond George	NRC
Andrea Johnson	NRC
Ming Li	NRC
Michael Marshall	NRC
Ngola Otto	NRC
Dinesh Taneja	NRC
Jack Zhao	NRC

SUBJECT: SUMMARY OF JULY 23, 2024, PRE-SUBMITTAL MEETING WITH FRAMATOME INC. AND THE U.S. NUCLEAR REGULATORY COMMISSION FOR INSTRUMENTATION AND CONTROL SAFETY SYSTEMS TXS-COMPACT TOPICAL REPORT (EPID L-2024-LRM-0087) DATED AUGUST 26, 2024

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GGeorge, NRR
CCheung, NRR
AJohnson, NRR

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Phil.Opsal@Framatome.com

ADAMS Accession Nos.:

- ML24233A263 (Summary)**
- ML24193A231 (Presentation – Non-Proprietary)**
- ML24193A233 (Presentation – Proprietary)**
- ML24194A108 (Affidavit)**
- ML24193A240 (Package)**

***via email**

OFFICE	DORL/LLPB/PM*	DORL/LLPB/LA*	DORL/LLPB/BC*	DORL/LLPB/PM*
NAME	NOtto	DHarrison	GGeorge	NOtto
DATE	8/22/2024	8/23/2024	8/26/2024	8/26/2024

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