



TXS Compact Platform
Expansion Supplement To
Topical Report

NRC/Framatome Phase “0”
Meeting

Framatome
July 7, 2026

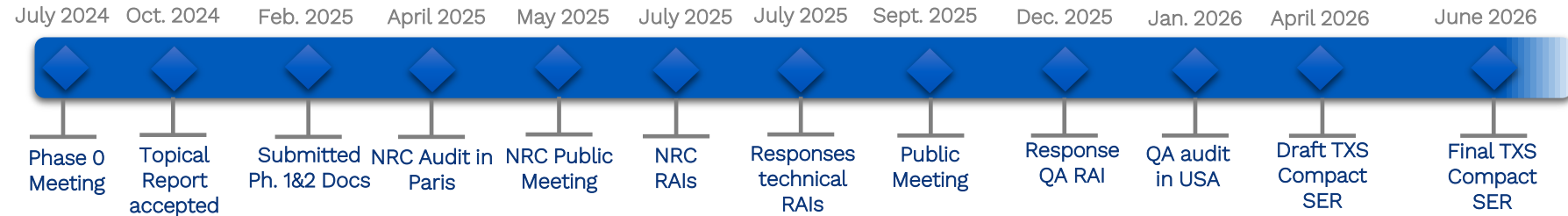
TXS Compact Expansion “Phase 0” Meeting Agenda

1. Purpose and Introductions	9:30	-	9:40
2. TXS Compact Platform Expansion Overview	9:40	-	10:10
3. TXS Compact Supplement Structure	10:10	-	10:15
4. TXS Compact Expansion Phase Submittals	10:15	-	10:20
5. TXS Compact Platform Enhanced features	10:20	-	10:25
6. Framatome Request for NRC Support	10:25	-	10:30
7. Summary of Questions and Action Items	10:30	-	10:45

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Purpose and Introductions

TXS Compact Baseline NRC background



✓ TXS Compact Platform Baseline approved by the NRC
→ June 2026



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

June 10, 2026

Ms. Gayle Elliott, Director
Licensing and Regulatory Affairs
Framatome, Inc.
3315 Old Forest Road
Lynchburg, VA 24501

SUBJECT: FINAL SAFETY EVALUATION FOR FRAMATOME ANP-10357P, REVISION 0,
"TXS COMPACT TOPICAL REPORT" (EPID L-2024-TOP-0029)

Dear Ms. Elliott:

By letter dated August 2, 2024 (Agencywide Documents Access and Management System (ADAMS) Package Accession No. ML24218A2809), and supplemented by letters dated June 30, July 22, July 30, August 14, 2025, and January 16, 2026 (ML25188A148, ML25203A339, ML25212A178, ML25226A233, and ML26020A270) respectively, Framatome, Inc. (Framatome) submitted Topical Report (TR) ANP-10357P, Revision 0, "TXS COMPACT Platform Topical Report," for U.S. Nuclear Regulatory Commission (NRC) staff review and approval. By letter dated April 30, 2026 (ML26078A375), an NRC draft safety evaluation (SE) regarding approval of ANP-10357P, Revision 0 (also referred to as "the TR"), was provided to Framatome for proprietary information review. By letter dated May 21, 2026 (ML26141A347), Framatome provided a response on its proprietary information review of the draft SE.

The NRC staff found that ANP-10357P, Revision 0, is acceptable for referencing in licensing applications for nuclear power plants to the extent specified and under the limitations delineated in the TR and in the enclosed final SE. The final SE defines the basis for NRC acceptance of the TR.

The NRC acceptance applies only to material provided in the subject TR. The NRC does not intend to repeat its review of the acceptable material described in the TR. When the TR appears as a reference in licensing applications, the NRC review will ensure that the material presented applies to the specific plant involved. License amendment requests that deviate from this TR will be subject to a plant specific review in accordance with applicable NRC review standards.



Certificate of Type Testing

Designation of Tested Equipment:
TELEPERM XS (TXS) Compact Modules
MPIOF1, GWF1, SMDF1, SRACKR and BPF1

test report for details on the designation of tested equipment.

Equipment Manufacturer:
Framatome GmbH
Paul-Gossen-Strasse 100
91052 Erlangen
Germany

Qualification Basis:
61513:2011; IEC 60987:2021; IEC 62566:2012
RCC-E-2019
KTA 3503:2015; IEC/IEEE 60780-323:2016
IEC 62003:2009

Qualification Results:
he tested equipment meets the requirements.

is only valid in the context of the following type test report:
T12-26-ESR002 dated May 2026
remarks mentioned by the type test report are mandatory.
if conditions the manufacturer is hereby granted permission to
supplement using the following certificate number and thereby
attest compliance with the qualification basis.

T12-26-ESR002

Service GmbH
systems
body
Inspector
Yuetting Wu
DAKAS
Westendstrasse 199 • 85888 Munich • Germany



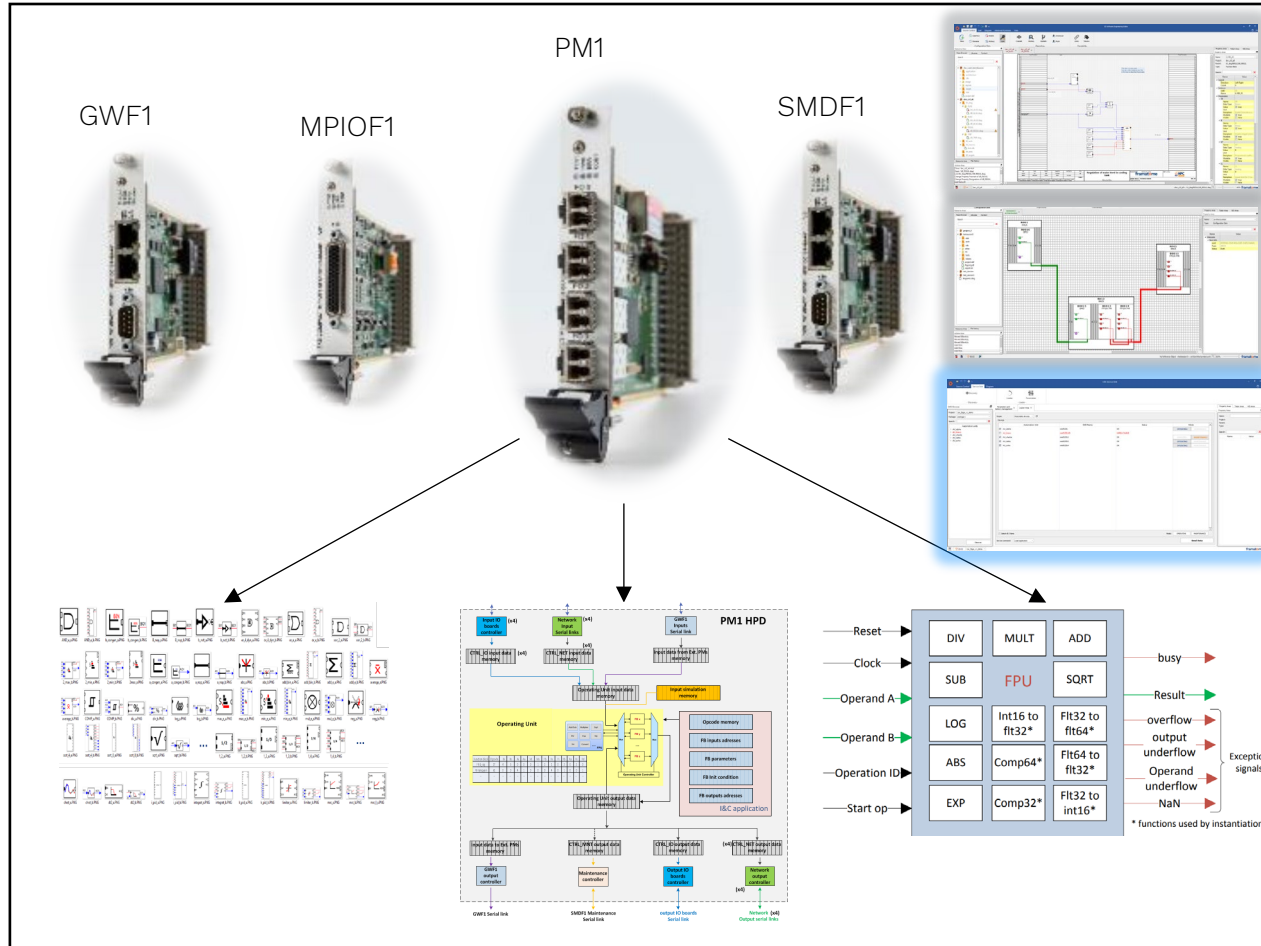
✓ TXS Compact Platform Baseline Certified by the TUV
→ May 2026

TXS Compact General Overview

➤ **Same Development process, Quality framework, suppliers, operation and safety principles for the entire TXS Compact platform** ◀

Baseline

Expansion



The Supplement is addressing the Expansion of the TXS Compact Platform

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TXS Compact Platform Expansion Overview

TXS Compact for Operating Fleets & SMR

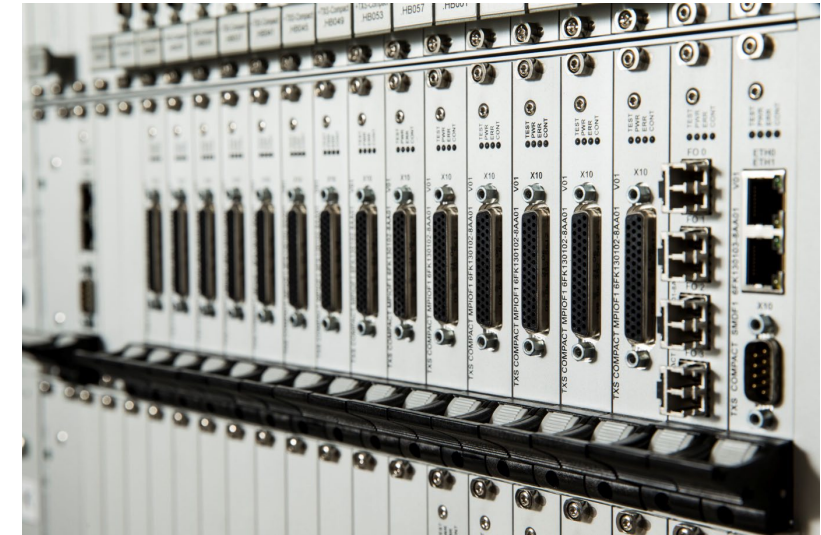
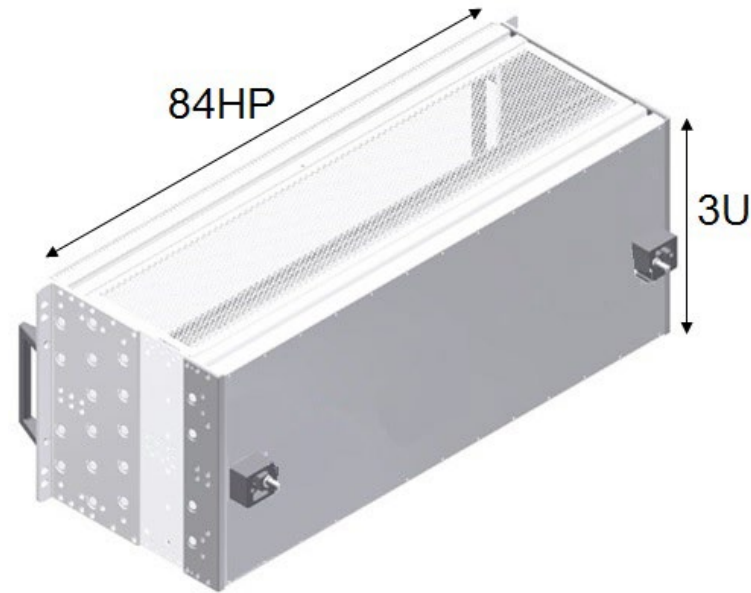
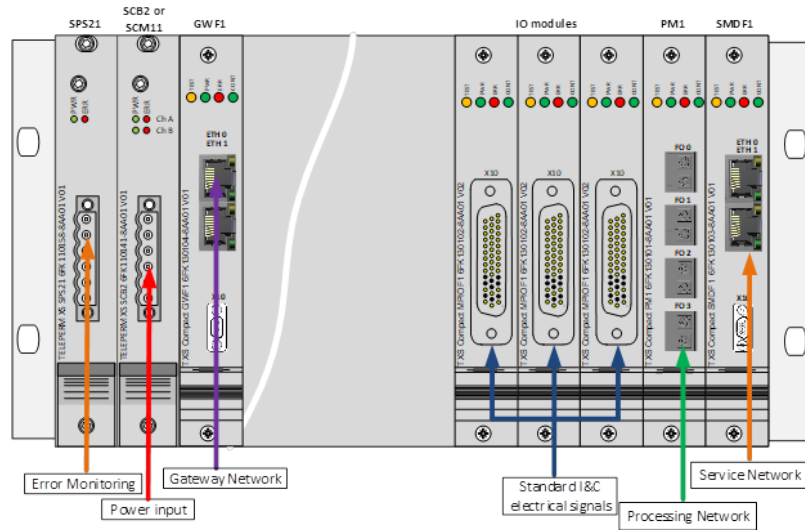
Comprehensive & State of the Art I&C to sustain NPP long term operations

NRC Assessed TXS Compact Lifecycle, Development and V&V Processes

- TXS Compact Expansion is developed, verified and validated, and maintained within the same generic set of TXS family engineering procedures and Quality Assurance (QA) instructions embedded in the Framatome QA system than TXS Compact baseline.
- Framatome QA system has been audited by Framatome Inc. in the frame of TXS Compact baseline TR submittal, and all the raised findings have been considered and closed.
- TXS Compact Expansion development process is still inline with BTP 7-14 requirements.
- Strict independence of the V&V teams is implemented in the frame of the project development.

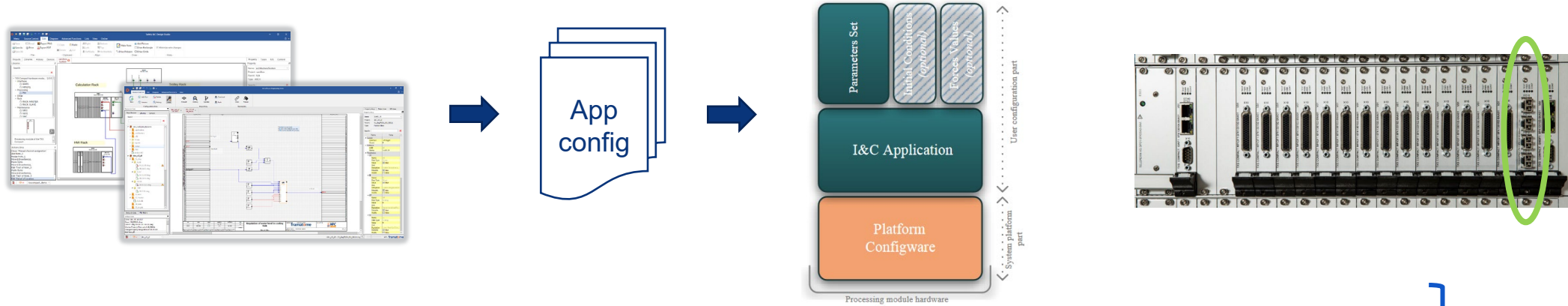
TXS Compact Chassis

3U height, 19 inches width, 240mm depth standard chassis which can be installed in virtually any kind of cabinet



Common chassis shared between the baseline and new modules

TXS Compact I&C System-Based



- TXS Compact is and remains a generic platform: the HPD is programmed, qualified and licensed once for all. The processing module PM1 implements a generic processing unit able to compute all I&C Function Blocks in any order.
- An I&C system realized with TXS Compact is a collection of loosely-coupled Automation Units
- Each Automation Unit acquires signals, processes I&C logic, communicates with other Automation Units and outputs results of its calculations.

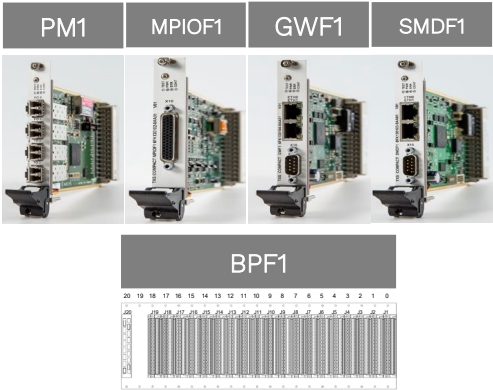
**No change
compared to
baseline**

➤ Clear and strong segregation between platform design and system design

TXS Compact Platform Modules & Backplanes

- Modules from the platform baseline (addressed in the SER - ML26141A380)

PM1	SMDF1	GWF1	MPIOF1
Processing and communication module	Service, maintenance and diagnosis module	Class-1 gateway to Qualified Display System	Multi-purpose I/O module (2xAI, 2xAO, 4xBI, 4xBO, 1xCPT)



- New Modules of the platform (addressed in the supplement)

New Binary Modules

New Analog Modules

TXS Compact EQ Testing for the New Modules

TXS Compact Generic Equipment Qualification

➤ Hardware testing is successfully performed and is summarized per module in the summary qualification report.

TXS Compact New Function Blocks

New function blocks have been added to the platform to provide additional functions and calculation capabilities, examples:



The working principles and boundary conditions for function blocks described in the baseline TR remain valid and applicable.

Additional Function Blocks may be added in the future to satisfy specific system needs.

TXS Compact Modes & Releases

Description of modes & releases of baseline TR remains valid. Three releases (5) **COMMISSIONING**, (6) **ACK**, and (7) **HOTPLUG** are added to complete platform's features.

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TXS Compact Supplement Structure

TXS Compact Supplement

- TXS Compact Expansion Topical Report has been prepared in a manner to address the Guidance and Topics provided in ISG-06 R2, “Licensing Process”
- TXS Compact Expansion supplement has been prepared within the same philosophy than TXS Compact baseline Topical Report and provides the continuity of the entire product lifecycle.

TXS Compact Supplement – Table of Contents

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TXS Compact Expansion Phase Submittals

Phase Submittals

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TXS Compact Platform Enhanced Features

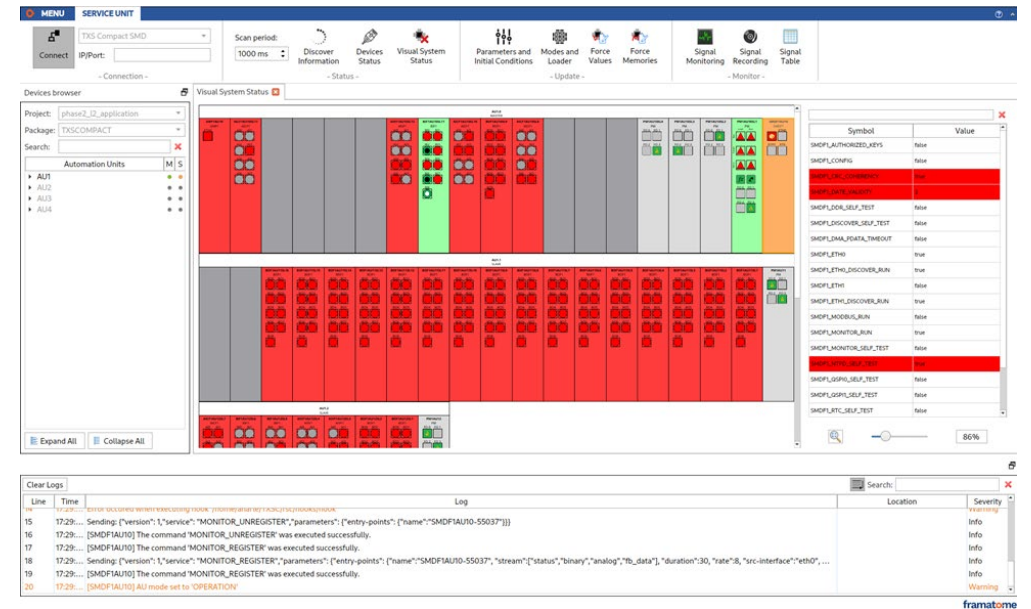
The working principles and boundary conditions described in the baseline TR remain valid and applicable.

FYI: TXS Compact Engineering Tools

More details are provided in the supplement.

FYI: TXS Compact Maintenance Features

Maintenance features have been improved to implement additional functionalities with the aim of improving performance of maintenance operations:



All together, these improvements facilitate maintenance activities of the operators on site.

More details are provided in the supplement.

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Framatome Request for NRC Support

Request for NRC Support

In order to satisfy the industry demand of a comprehensive digital platform for safety I&C application, Framatome is requesting NRC support:



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Summary of Questions and Action Items

framatome

Thank
you

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