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U.S. Nuclear Regulatory Commission  
Document Control Desk  
11555 Rockville Pike  
Rockville, MD 20852

**Request for Review and Approval of ANP-10357P, Revision 0, “TXS COMPACT PLATFORM Topical Report”**

Framatome Inc. (Framatome) requests NRC review and approval of Topical Report ANP-10357P, Revision 0, “TXS COMPACT PLATFORM Topical Report” for referencing in licensing actions. This report presents the generic application of the TXS COMPACT which has been developed as platform based on Field-Programmable Gate Array (FPGA) technology that can be integrated with different modules from the TXS portfolio to implement safety Instrumentation and Control (I&C) systems in accordance with applicable regulatory requirements for safety-related I&C systems in nuclear power plants (NPPs).

The TXS system platform is intended for the design of safety I&C systems for NPPs of different reactor technologies and in many countries, subject to various licensing requirements. Therefore, hardware and configware/application qualification of the TXS system platform components is performed based on the requirements from international standards, namely International Atomic Energy Agency (IAEA) and International Electrotechnical Commission (IEC) standards. In addition, nuclear Institute of Electrical and Electronics Engineers (IEEE) standards, such as IEEE 603, are considered, being representative for applications in many countries with influence from the USA. This report presents design features and characteristics and explains how the qualification of TXS COMPACT is performed. Also discussed are the structured development and Verification and Validation (V&V) processes involving independent assessor organizations.

Framatome considers some of the material contained in the enclosed document to be proprietary. As required by 10 CFR 2.390(b), an affidavit is enclosed to support withholding the information from public disclosure. Proprietary and non-proprietary versions of the report are enclosed.

There are no commitments within this letter or its enclosures.

If you have any questions related to this information, please contact Mr. Philip A. Opsal by telephone at (434) 534-1223, or by e-mail at Philip.Opsal@framatome.com.

Sincerely,

Gayle Elliott, Director  
Licensing & Regulatory Affairs  
Framatome Inc.

cc: Ngola Otto  
Project 728

Enclosures:

1. ANP-10357P, Revision 0 (PROPRIETARY)
2. ANP-10357NP, Revision 0 (NON-PROPRIETARY)
3. Affidavit