

**Lockheed Martin Missiles and Fire Control**

459 Kennedy Drive, Archbald, Pennsylvania 18403

PROJ 0780

**LOCKHEED MARTIN****国家核电**  
**SNPTC****国核自仪系统工程有限公司**  
STATE NUCLEAR POWER AUTOMATION SYSTEM ENGINEERING COMPANY

July 27, 2016

Document Control No.: NS-LTA-2016-000040-0

Document Control Desk  
Office of Nuclear Reactor Regulation  
11555 Rockville Pike  
Rockville, MD 20852-2738

**SUBJECT:** Submittal of Updated or Revised Lockheed Martin NuPAC Supporting Documentation**REFERENCE:** (TAC NO. ME7900)**Submittal of Supporting Documentation**

Lockheed Martin has revised the following NuPAC Topical Report supporting documents:

Document Number	Document Name	Document Rev
NuPAC_ED610000-063	Programmable Logic Failure Modes and Effects Analysis (FMEA) Report	-

**Application for Withholding Proprietary Information from Public Disclosure**

Enclosure (2) contains Lockheed Martin trade secrets and commercial information that is privileged or confidential. Enclosure (2) contains technical data whose export, transfer, disclosure, and further publication are restricted by the applicable export laws and regulations of the United States of America.

In accordance with 10 CFR § 2.390(a)(4) and other applicable clauses in 10 CFR § 2.390, Lockheed Martin respectfully requests that Enclosure (2) be withheld from public disclosure.

The accompanying affidavit, Enclosure (1), sets forth the basis on which the information identified as proprietary may be withheld from public disclosure.

At this time, Lockheed Martin is not prepared to submit additional non-proprietary versions of the subject documents due to the extensive proprietary information contained within the documents.

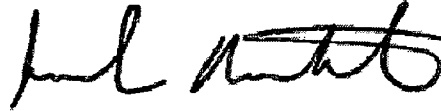
As discussed in the Affidavit, Enclosure (1), release of Confidential and Proprietary Information is likely to cause Lockheed Martin substantial competitive harm. This could result in a loss of future business and jobs.

A copy of the supporting documentation is also provided to the NRC's Senior Project Manager, Mr. Joseph Holonich, via separate letter.

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Should you desire further information and/or clarification, please do not hesitate to contact me at (570) 536-3946 or via email at jack.rosentel@lmco.com.

Sincerely,  
Lockheed Martin Nuclear Systems & Solutions



Jack Rosentel  
Program Technical Licensing Manager

**ENCLOSURES:** (1) Lockheed Martin Affidavit of Jack Rosentel Dated July 27, 2016  
(2) CD ROM (Quantity 1) Containing

Document Number	Document Name	Document Rev
NuPAC_ED610000-063	Programmable Logic Failure Modes and Effects Analysis (FMEA) Report	-

**Enclosure #1**  
**Lockheed Martin Corporation**

**Affidavit of Jack Rosentel**

I, Jack Rosentel, state as follows:

1. Lockheed Martin Corporation (Lockheed Martin) seeks to withhold the following enclosed documents, from public disclosure under 10 CFR § 2.390:

Document Number	Document Name	Document Rev
NuPAC_ED610000-063	Programmable Logic Failure Modes and Effects Analysis (FMEA) Report	-

2. My official position is Program Technical Licensing Manager for the Energy line of business at Lockheed Martin Missiles and Fire Control. I am responsible for coordinating the NuPAC Topical Report Review activity between the US NRC and the Lockheed Martin Energy business. I have been delegated the function of reviewing the information sought to be withheld and authorized to apply for its withholding on behalf of the company.
3. I understand that in accordance with U.S. Nuclear Regulatory Commission (NRC) regulations in 10 CFR § 2.390 that in order for such information to be withheld from the public requires the submission of an affidavit particularly identifying the information which Lockheed Martin considers proprietary and the reasons why its release would cause Lockheed Martin substantial competitive harm.
4. I have reviewed the enclosed documents and have determined that they contain Lockheed Martin Proprietary Information and request they be withheld from public disclosure based on the following considerations:

Specifically, the design process and tools described in the documents reveal distinguishing aspects of Lockheed Martin Energy processes that were developed by Lockheed Martin, using Lockheed Martin funds. Distinguishing disciplines applied in these processes could be used by any of Lockheed Martin Energy's competitors to improve or enhance their own products and processes. Such use, without a license by Lockheed Martin Energy, would cause competitive and economic harm to Lockheed Martin Energy and its parent company, Lockheed Martin Corporation.

Specifically, the processes and tools described in the document have been and are being developed by and for the use of Lockheed Martin Energy in order to improve our competitive position in the design, qualification, documentation, assurance of quality, and licensing of our products. Revealing this information to our competitors would give them knowledge that they could use for similar purposes, but without the

same expenditure of resources. Use of this knowledge would improve their competitive position against providers of similar products, including and at the expense of Lockheed Martin Energy.

Specifically, the disciplines identified in these processes provide a strategy for future product licensing that will ultimately favor marketing of said future product. The revealing of internal development and design processes at this time will allow competitors to structure similar processes prior to Lockheed Martin Energy's products reaching the market. Details of process discipline may prompt a competitor to adjust their own planned expenditures of resources and development processes that may provide them an advantage over Lockheed Martin Energy.

Specifically, the development and maintenance of the subject documents, the process and plans described, and the methods of describing the process are funded exclusively by Lockheed Martin. The results of the program are expected to provide significant commercial advantage to Lockheed Martin over those of our competitors who may not apply similar process rigors and discipline.

5. The information is being furnished to the NRC in confidence and solely for use by the NRC staff and authorized NRC subcontractors in the conduct of official NRC business.
6. Lockheed Martin closely guards its confidential and proprietary information. Even within Lockheed Martin, distribution of such information is limited to employees involved in the development of the information, senior management, program management, and selected other personnel. Lockheed Martin's confidential and proprietary information thus is closely guarded and distributed on a "need to know" basis. Furthermore, Lockheed Martin does not publicly disclose the type of information at issue. Lockheed Martin carefully protects the types of confidential and proprietary information and does not disclose it outside the Company, except to the Government. Lockheed Martin generates and retains a wide variety of Sensitive Information and materials that are valuable assets of the Lockheed Martin, its collaborators, and Customers, including information that is proprietary to Lockheed Martin or a third party, export controlled, protected, or attorney-client and/or work product privileged. It is Lockheed Martin policy to properly identify, effectively manage, and diligently protect all such Sensitive Information. Sensitive Information includes export controlled information, Lockheed Martin proprietary information and third party proprietary information. To safeguard this information from unauthorized disclosure, Lockheed Martin requires that specific measures be taken in the protection and handling of Sensitive Information.
7. As discussed further below, release of confidential and proprietary information is likely to cause Lockheed Martin substantial competitive harm. This could result in a loss of future business and jobs.

**Lockheed Martin Business Environment**

8. Lockheed Martin Energy products are for sale to United States nuclear electric generation customers and international customers in that industry. In offering these products, Lockheed Martin does compete with several other companies for providing similar products to domestic and international customers. The competition is narrow and keen. Lockheed Martin closely guards its confidential and proprietary information relating to these competitions, including its technical, scheduling and pricing information. Even within Lockheed Martin, distribution of such information is limited to employees involved in the development of the information, senior management, program management, and selected other personnel who are involved in proposal efforts. Lockheed Martin's confidential and proprietary pricing information thus is closely guarded and distributed on a "need to know" basis.
9. Based on my experience as Program Technical Licensing Manager for the Energy line of business, I have direct knowledge of the competitions and the marketplace for providing modern, high-performance nuclear reactor safety and protective systems, as well as the appropriately cautious regulatory approval positions taken by the NRC with regard to the implementation of advanced systems.
10. Currently, Lockheed Martin is engaged in development activities related to the documentation of a disciplined design process for safety evaluation by regulatory authorities. Lockheed Martin has invested, and expects to continue to invest, its own precious financial resources in support of developing and maintaining this process.
11. Lockheed Martin may apply these processes in product development, design and documentation that may be needed to support NRC regulatory approval for the deployment of new products in new and existing U.S. nuclear-electric generating stations. Lockheed Martin believes this process represents a substantial licensing advantage for future products, contributing long-term financial returns as well as the benefit of employment for our highly envied base of employees.
12. Lockheed Martin has been performing development, design, qualification, manufacturing and logistics services for customers recognized for having a history of technical excellence in a niche nuclear Instrumentation and Controls market for 50+ years over numerous generations of products and product types. Lockheed Martin continues to perform these services for these customers.
13. Lockheed Martin developed specific processes of implementing disciplined, detailed processes and procedures that result in design artifacts for NRC-licensable products employed as reactor protection and other safety systems.

14. The details of the product development process contains methods and approaches that are intended to alleviate technical concerns related to the risk of implementing modern, advanced safety-related products. This information constitutes confidential commercial or technical information normally not disclosed in public. This is so because such disclosure would provide competitors with detailed technical information that would potentially permit earlier market penetration than Lockheed Martin may be able to achieve. Lockheed Martin is currently in a competitive race to market with other industry suppliers. The disclosure of these methodologies would significantly impact the company's competitive bid strategy for these procurements.

### Summary

In summary, release of Lockheed Martin's design and process details may result in a significant reduction to a potential substantial business opportunity and the potential loss of employment for Lockheed Martin personnel. Further, the release of business, process and technical information could result in a disincentive for further internal Lockheed Martin investment intended to improve overall safety system performance, availability and longevity for U.S. and international customers in this uniquely sensitive business.

The NuPAC TR and related supporting documents and plans are a technical artifact developed under a cooperative development project between Lockheed Martin and State Nuclear Power Automation Systems Engineering Company (SNPAS).

This the 27th Day of July, 2016



Jack Rosentel

Sworn to and subscribed before me

this 27 day of July, 2016.

