

**~~OFFICIAL USE ONLY – PROPRIETARY INFORMATION~~**

March 3, 2017

Jack Rosentel  
Program Technical Licensing Manager  
Lockheed Martin Nuclear Systems and Solutions  
459 Kennedy Drive  
Archbald, PA 18403

SUBJECT: FINAL SAFETY EVALUATION OF NuPAC\_ED610000-47-P, REVISION-,  
"GENERIC QUALIFICATION OF THE NuPAC PLATFORM FOR SAFETY-  
RELATED APPLICATIONS (PROPRIETARY)" (TAC NO. ME7900)

Dear Mr. Rosentel:

By letter dated June 28, 2011 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML11201A323), Lockheed Martin Nuclear Systems and Solutions (LMNSS) submitted the topical report (TR) NuPAC\_ED610000-47-P, Revision-, "Generic Qualification of the NuPAC Platform for Safety-related Applications (Proprietary)." The original submittal was supplemented by over 50 submittals that are detailed in the reference section of the attached safety evaluation (SE).

By letter dated December 8, 2016 (ADAMS Accession No. ML16161A015), a U.S. Nuclear Regulatory Commission (NRC) draft SE was provided for your review and comment. By letter dated December 14, 2016 (ADAMS Accession No. ML16363A173), LMNSS provided comments on the NRC draft SE. The comments provided by LMNSS were related to the identification of proprietary information in the draft SE, clarifications, and accuracy. The NRC staff's disposition of the LMNSS comments on the draft SE is documented in the final SE enclosed with this letter.

The NRC staff has found that NuPAC\_ED610000-47-P, Revision-, 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 our acceptance of the TR.

Our acceptance applies only to material provided in the subject TR. We do not intend to repeat our review of the acceptable material described in the TR. When the TR appears as a reference in licensing action requests, our review will ensure that the material presented applies to the specific plant involved. Requests for licensing actions that deviate from this TR will be subject to a plant-specific review in accordance with applicable review standards.

NOTICE: Enclosure transmitted herewith contains Proprietary Information. When separated from enclosure, this transmittal document is decontrolled.
--

**~~OFFICIAL USE ONLY – PROPRIETARY INFORMATION~~**

J. Rosentel

- 2 -

In accordance with the guidance provided on the NRC website, we request that LMNSS publish an approved proprietary and non-proprietary versions of TR NuPAC\_ED610000-47-P, Revision- within three months of receipt of this letter. The approved versions shall incorporate this letter and the enclosed final SE after the title page.

LMNSS provided a completely revised topical report after the NRC staff requests for additional information (RAIs) were issued and answered. Providing the RAIs in the –A version of the topical report would not add any value. Thus, the NuPAC –A topical report does not need to include the RAIs and answers from the original version in the final –A version.

If future changes to the NRC’s regulatory requirements affect the acceptability of this TR, LMNSS will be expected to revise the TR appropriately or justify its continued applicability for subsequent referencing. Licensees referencing this TR would be expected to justify its continued applicability or evaluate their plant using the revised TR.

Sincerely,

*/RA/*

Kevin Hsueh, Chief  
Licensing Processes Branch  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation

Project No. 780

Enclosure:  
Final Safety Evaluation (Proprietary)

**OFFICIAL USE ONLY – PROPRIETARY INFORMATION**

J. Rosentel

- 3 -

SUBJECT: FINAL SAFETY EVALUATION OF NuPAC\_ED610000-47-P, REVISION-,  
"GENERIC QUALIFICATION OF THE NuPAC PLATFORM FOR SAFETY-  
RELATED APPLICATIONS (PROPRIETARY)" (TAC NO. ME7900) DATED  
MARCH 3, 2017

**DISTRIBUTION:**

PUBLIC (Letter)	NON-PUBLIC (Final SE)	KHsueh	RidsNrrDeEicb
RidsNrrDpr	MWaters	RidsNrrDlr	RidsNrrDlrRarb
RidsNrrLADHarrison	RidsNroOd	RidsACRS_MailCTR	NCarte
RidsResOd	RidsOgcMailCenter	RidsNrrDprPlpb	DCurtiss
RidsNrrDe	JZhao		

**EXTERNAL DISTRIBUTION:**

Larry Erin; [Lawrence.e.erin@lmco.com](mailto:Lawrence.e.erin@lmco.com) ; Jack Rosentel; [Jack.rosentel@lmco.com](mailto:Jack.rosentel@lmco.com)

**ADAMS Accession Nos.: Package (ML16165A405); Transmittal Letter (ML16166A003);  
Proprietary Safety Evaluation (ML16166A001); \*via e-mail** **NRR-106**

OFFICE	NRR/DPR/PLPB	NRR/DPR/PLPB*	NRR/DE/EICB	NRR/DPR/PLPB
NAME	JHolonich	DHarrison	MWaters	KHsueh
DATE	12/29/2016	01/25/2017	02/09/2017	03/03/2017

**OFFICIAL RECORD COPY**