


<b>NRC FORM 7</b> (02-2016) 10 CFR 110		 <b>U. S. NUCLEAR REGULATORY COMMISSION</b>		<b>APPROVED BY OMB: NO. 3150-0027</b>		<b>EXPIRES: 11/30/2018</b>	
<b>APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S)</b> <i>(See Instructions on Pages 4 and 5)</i>				Estimated burden per response to comply with this mandatory collection request 2.4 hours. This submittal is reviewed to ensure that the applicable statutory, regulatory, and policy considerations are satisfied. Send comments regarding burden estimate to the FOIA, Privacy, and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to Infocollections.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0027), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.			
<b>PART A. FOR NRC USE ONLY</b>		<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC		<b>DATE RECEIVED</b> 6/30/19			
<b>LICENSE NUMBER</b> VLOM 1319		<b>DOCKET NUMBER</b> 11006311		<b>ADAMS ACCESSION NUMBER</b>			
<b>PART B. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS, OR CONSENT REQUESTS</b> (If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)							
<b>1. NAME AND ADDRESS OF APPLICANT/LICENSEE</b>  General Atomics 3550 General Atomics Court San Diego, CA 92121		<b>1a. NAME OF APPLICANT'S CONTACT</b> Dr. Keith Asmussen		<b>1b. APPLICANT'S REFERENCE NUMBER</b> IEL-4933			
		<b>1c. PHONE NUMBER</b> (858) 455-2823		<b>1d. FAX NUMBER</b> (858) 455-2822			
		<b>1e. E-MAIL ADDRESS</b> keith.asmussen@ga.com					
<b>2. TYPE OF ACTION REQUESTED (Check One)</b>							
<input checked="" type="checkbox"/> EXPORT (Parts B, C, E)		<input type="checkbox"/> IMPORT (Parts B, D, E)		<input type="checkbox"/> AMENDMENT/RENEWAL Current License Number:		<input type="checkbox"/> CONSENT REQUEST (Parts B, C) Current License Number:	
<b>3. CONTRACT NUMBER(S)</b> OCPO-1710-GA		<b>4. FIRST SHIPMENT DATE</b> 08/17/2018		<b>5. LAST SHIPMENT DATE</b> 12/31/2023		<b>6. PROPOSED EXPIRATION DATE</b> 12/31/2023	
<b>PART C. TO BE COMPLETED FOR EXPORT LICENSES, AMENDMENTS, OR RENEWALS</b> (If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)							
<b>7. NAME(S) / ADDRESS(ES) OF SUPPLIERS AND/OR OTHER PARTIES TO THE EXPORT</b>  General Atomics 3550 General Atomics Court San Diego, CA 92121		<b>8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S)</b>  O. Chiao Company, Ltd. NEI-HU Dist 4F1-2, No. 16, Lane 35, JI-HU Road Taipei 114, Taiwan		<b>9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S)</b>  National Tsing Hua University Nuclear Reactor Division Hsinchu, Taiwan R.O.C.			
<b>7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED</b> Manufacture and Ship		<b>8a. INTERMEDIATE USE(S)</b> Logistics Support		<b>9a. ULTIMATE END USE(S)</b> see page 3 of 3			
<b>10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT</b>  NLW Line Driver Kit NLW-1000 Wide Range Log Power Channel PA-1000 Preamplifier & Assembly NMP-1000 Nuclear Multi-Range Linear Channel On-Site Installation and Software Modifications On-Site Assistance including power calibration Fission Chambers Assembly & Safety Channels				<b>10a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)</b>  N/A		<b>10b. MAX ENRICHMENT OR WGT %</b>  N/A	
				<b>10c. MAX ISOTOPE WGT (KG)</b>  N/A			
<b>11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)</b>  N/A							

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U. S. NUCLEAR REGULATORY COMMISSION

**APPLICATION FOR NRC EXPORT OR IMPORT  
LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) (Continued)**

LICENSE NUMBER XCOM1319	DOCKET NUMBER 1100631	ADAMS ACCESSION NUMBER	<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC
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ADDITIONAL INFORMATION (Reference applicable block numbers from page 1 and/or page 2 for each entry)

Block 7 from page 1: General Atomics is supplying the equipment described in Block 10 pursuant to National Tsing Hua University (NTHU) request for proposal number: 20008647R5.

Block 9a from page 1: Nuclear instrumentation (i.e., safety channel) upgrade to the National Tsing Hua University TRIGA research reactor.

Block 10 from page 1: Additional information: General Atomic (GA) is replacing NTHU's TRIGA Reactor's obsolete NM-1000 unit with GA's newer NMP-1000 Safety Channels. This requires software modification which will occur during installation of the proposed NLW-1000 & PA1000 along with the NLW line driver kit. GA will also install and calibrate the proposed NLW-1000 Safety Channel.

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U. S. NUCLEAR REGULATORY COMMISSION

**APPLICATION FOR NRC EXPORT OR IMPORT  
LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) (Continued)**

LICENSE NUMBER <i>X10m1319</i>	DOCKET NUMBER <i>11006311</i>	ADAMS ACCESSION NUMBER	<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC
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**PART D. TO BE COMPLETED FOR IMPORT LICENSES, AMENDMENTS, OR RENEWALS**  
(If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)

12. NAME(S) / ADDRESS(ES) OF FOREIGN SUPPLIERS AND/OR OTHER PARTIES TO IMPORT	13. NAME(S) / ADDRESS(ES) OF INTERMEDIATE CONSIGNEE(S)	14. NAME(S) / ADDRESS(ES) OF ULTIMATE U. S. CONSIGNEE(S)	
12a. NRC EXPORT LICENSE NUMBER(S) <i>(if applicable)</i>	13a. LICENSE NUMBER(S) / EXPIRATION DATE(S)	14a. LICENSE NUMBER(S) / EXPIRATION DATE(S)	
	13b. INTERMEDIATE USE(S)	14b. ULTIMATE END USE(S)	
15. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES	15a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)	15b. MAX ENRICHMENT OR WGT %	15c. MAX ISOTOPE WGT (KG)

16. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)

**PART E. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS OR CONSENT REQUEST(S)**

17. ADDITIONAL INFORMATION PROVIDED ON PAGES 3, 4, AND/OR ON SEPARATE SHEETS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	17a. COPIES OF RECIPIENTS' AUTHORIZATIONS PROVIDED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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**18. CERTIFICATION:** I, the applicant's authorized official, hereby certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, and that all information provided is correct to the best of my knowledge.

18a. PRINT NAME AND TITLE OF AUTHORIZED OFFICIAL  Keith E. Asmussen, Ph.D., Director Licensing, Safety and Nuclear Compliance	18b. SIGNATURE – AUTHORIZED OFFICIAL  <i>Keith Asmussen</i>	18c. DATE  <i>6/13/2018</i>
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June 14, 2018  
IEL-4933

Deputy Director  
Office of International Programs  
U.S. Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, MD 20555-0001

Subject: Request to Export a NLW-1000, Wide Range Log Power Channel; a PA-1000, Preamp Assembly, Guarded; and a Nuclear Multi-range Linear Channel to National Tsing Hua University TRIGA® Research Reactor in Taiwan

Dear Deputy Director:

General Atomics (GA) has commitments, pursuant to requests for proposal by the National Tsing Hua University (NTHU), to provide a nuclear instrumentation upgrade to National Tsing Hua University (NTHU) TRIGA® research reactor located in Hsinchu, Taiwan R.O.C. A completed NRC Form 7 and a check in the amount of \$4,500.00 are enclosed in support of this license request.

Also enclosed are the precedent license (i.e., NRC license number XCOM1212), copies of two purchase orders, and product information.

If you have any questions about the above, please do not hesitate to contact me at (858) 455-2823 or [keith.asmussen@ga.com](mailto:keith.asmussen@ga.com), or Veronica Lopez at (858) 455-3738 or [veronica.lopez@ga.com](mailto:veronica.lopez@ga.com).

Very truly yours,

A handwritten signature in blue ink that reads "Keith E. Asmussen".

Keith E. Asmussen, Ph.D., Director  
Licensing, Safety and Nuclear Compliance

Reference: National Tsing Hua University (NTHU) PO# OCPO-1710-GA.

Enclosures: NRC Form 7, GA Check for \$4,500, PA-1000 Description, NMP-1000 Description, NLW-1000 Description, O. Chiao Co., LTD POs dated December 14, 2017 and September 20, 2017, Two (2) GA Quotes and NRC license XCOM1212



**Date:** June 14, 2018

**To:** Deputy Director, Office of International Programs

On June 13, 2018 General Atomics (GA) sent to your office, via FedEx (tracking#446785985737), a completed NRC Form 7 with a cover letter and several enclosures, including a check for \$4,500. Unfortunately, the cover letter (No. IEL-4933) and the Form 7 had not been signed and a copy of the referenced precedent license was not enclosed. Accordingly, GA is herewith sending a copy of everything that was in the original submittal with a signed cover letter, a signed Form 7, a copy of GA check No. 1000001922 (\$4,500) that was in the original transmittal, plus a copy of the referenced precedent license XCOM1212. The documents enclosed herein plus the original check sent earlier, comprise the complete package supporting GA's current request for an export license.

If you have any questions, please feel free to contact me at 858.455.2823 or email [keith.asmussen@ga.com](mailto:keith.asmussen@ga.com). GA apologizes for the confusion and the inconvenience.

Sincerely,

A handwritten signature in blue ink that reads "Keith Asmussen".

Keith Asmussen, Ph.D.

Director, Licensing, Safety & Nuclear Compliance