



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20585

DCS/DF02  
11

DEC 21 1990

Mr. John M. Rooney, Director  
Technology Policy Division  
Office of Classification and  
Technology Policy  
U.S. Department of Energy  
Washington, D.C. 20585

Dear Mr. Rooney:

Enclosed is an application for an export license (XSNM02577), recently received by the Nuclear Regulatory Commission, for the export of low-enriched uranium for use in the TRIGA research reactor located at the Imperial Chemical Industries, Ltd. facility in the United Kingdom. Assurances are required that the material will be subject to all of the terms and conditions of an agreement for cooperation. Your assistance in obtaining the necessary assurances will be appreciated.

Sincerely,

Ronald D. Hauber, Assistant Director  
for Exports, Security, and Safety Cooperation  
International Programs  
Office of Governmental and Public Affairs

Enclosure:  
Appl. dtd. 12/05/90  
(XSNM02577 - United Kingdom)

cc w/Enclosure:  
T. Hart, DOE  
R. DeLaBarre, DOS  
N. Martin, DOE  
M. Rosenthal, ACDA  
L. Burdick, DOD  
G. Kuzmycz, DOC

9012280189 901221  
PDR EXPORT PDR  
XSNM-2577

APPLICATION FOR LICENSE TO EXPORT NUCLEAR MATERIAL AND EQUIPMENT (See Instructions on Reverse)

1. APPLICANT'S USE		a. DATE OF APPLICATION Dec. 5, 1990		b. APPLICANT'S REFERENCE TEL-1651		2. NRC USE		a. DOCKET NO. 11004383		b. LICENSE NO. XSNM09577			
3. APPLICANT'S NAME AND ADDRESS						4. SUPPLIER'S NAME AND ADDRESS							
a. NAME General Atomics ATTN: Keith E. Asmussen						b. NAME RIS							
b. STREET ADDRESS 3550 General Atomics Court						a. NAME							
c. CITY San Diego			STATE CA		ZIP CODE 92121-1194		b. STREET ADDRESS						
d. TELEPHONE NUMBER (Area Code - Number - Extension) (619) 455-2823						c. CITY			STATE		ZIP CODE		
5. FIRST SHIPMENT SCHEDULED		6. FINAL SHIPMENT SCHEDULED		7. APPLICANT'S CONTRACTUAL DELIVERY DATE		8. PROPOSED LICENSE EXPIRATION DATE		9. U.S. DEPARTMENT OF ENERGY CONTRACT NO. (If Known)					
Feb. 1, 1991		unknown		ASAP after 2/01/91		Dec. 31, 1994							
10. ULTIMATE CONSIGNEE						11. ULTIMATE END USE							
a. NAME Imperial Chemical Industries, Ltd.						b. STREET ADDRESS Billingham, Teeside, TS 23 1 JB							
c. CITY - STATE - COUNTRY United Kingdom						11a. EST. DATE OF FIRST USE							
12. INTERMEDIATE CONSIGNEE						13. INTERMEDIATE END USE							
a. NAME						13a. EST. DATE OF FIRST USE							
b. STREET ADDRESS						15. INTERMEDIATE END USE							
c. CITY - STATE - COUNTRY						15a. EST. DATE OF FIRST USE							
14. INTERMEDIATE CONSIGNEE						15. INTERMEDIATE END USE							
a. NAME						15a. EST. DATE OF FIRST USE							
b. STREET ADDRESS						15. INTERMEDIATE END USE							
c. CITY - STATE - COUNTRY						15a. EST. DATE OF FIRST USE							
16. NRC USE		17. DESCRIPTION (Include chemical and physical form of nuclear material; give dollar value of nuclear equipment and components)				18. MAX. ELEMENT WEIGHT		19. MAX. WT. %		20. MAX. ISOTOPE WEIGHT		21. UNIT	
		390 grams of U-235 contained in 1,970 grams uranium enriched to 19.9 w/o maximum in the physical form of TRIGA fuel elements and/or fueled follower control rods. The chemical form of the uranium is uranium-zirconium hydride.				1,970 (uranium)		19.9		390 (U-235)		gms	
22. COUNTRY OF ORIGIN - SOURCE MATERIAL				23. COUNTRY OF ORIGIN - SNM WHERE ENRICHED OR PRODUCED				24. COUNTRIES WHICH ATTACH SAFEGUARDS (If Known)					
U.S.A.				U.S.A.									
25. ADDITIONAL INFORMATION (Use separate sheet if necessary) Export of TRIGA fuel elements to ICI TRIGA research reactor was previously authorized by NRC License No. XSNM01541.													
26. The applicant certifies that this application is prepared in conformity with Title 10, Code of Federal Regulations, and that all information in this application is correct to the best of his/her knowledge.													
27. AUTHORIZED OFFICIAL				a. SIGNATURE Keith E. Asmussen				b. TITLE Manager, Licensing, Safety and Nuclear Compliance					

Copies to DCS/DFOS & H Denton on 12/18/90 BK  
90-2260037-10



IEL-1651  
December 6, 1990

XSNm02577  
11004383

Mr. Ronald Hauber, Assistant Director  
International Security, Exports, and  
Material Safety  
International Programs  
Office of Governmental and Public Affairs  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Subject: Application for License to Export Low Enriched Uranium (TRIGA Fuel) to the United Kingdom

Dear Mr. Hauber:

General Atomics (GA) has received notice of an order to supply a TRIGA fuel element to Imperial Chemical Industries, Ltd. for use in their TRIGA research reactor located at Billingham, Teeside in the United Kingdom. Further, we anticipate other future orders for additional TRIGA fuel elements and for control rods which have TRIGA fueled followers.

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We understand that control rods themselves may be exported to the United Kingdom under the General License provisions of 10 CFR 110.26. However, the low enriched uranium (i.e., TRIGA fuel) contained in the control rod followers requires a specific license. Accordingly, GA hereby makes application pursuant to 10 CFR 110 for an export license authorizing the export of low enriched uranium (19.9% max.) in the form of TRIGA fuel elements and TRIGA fueled follower control rods to the United Kingdom. Enclosed is Form NRC-7 giving specific details in support of this request.

If you have any questions regarding this request, or desire additional information, please do not hesitate to contact me at (619) 455-2823.

Very truly yours,

*Keith E. Asmussen*

Keith E. Asmussen, Manager  
Licensing, Safety and  
Nuclear Compliance

\*  
NOTE: Betty Wright, NRC, called applicant and advised him that <sup>control rods</sup> require a specific export license and cannot be exported under the referenced general license. He stated that he would forward a request for a specific license for the control rods.  
KEA:shs  
Enclosure - as above

*B. P. Wright*

*Rec'd 12/12  
10.00am*

~~5042280184~~ 1/p