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Mrs. Eleanor Busick, Acting  
Assistant Director  
Office of Nuclear Export/Import Control  
Bureau of Oceans and International  
Environmental and Scientific Affairs  
U.S. Department of State  
Washington, D.C. 2-520

Dear Mrs. Busick:

Enclosed please find two applications from Edlow International Company for licenses to export bulk tritium to Amersham International in the United Kingdom for resale to customers located in South Africa. License application XB001236 covers 200.0 curies of tritium to the National Accelerator Centre for use in the manufacture of accelerator targets; and license application XB001237 covers 2.0 curies of tritium to the African Explosives and Chemical Industries for tracing experiments.

Before taking action on these license applications, we would appreciate your views, in accordance with established procedures, as to whether the proposed exports meet the applicable criteria in the Atomic Energy Act, as amended by the Nuclear Non-Proliferation Act of 1978.

Sincerely,

Original signed by: Marvin R. Peterson

Marvin R. Peterson, Acting  
Assistant Director  
Export/Import and International  
Safeguards  
Office of International Programs

Enclosures:  
Appls. dtd. 7-16-85  
(XB001236 and XB001237 - South Africa)

cc w/enclosure:  
Mr. Ted Hart, DOE  
Mr. Gary Bray, ACDA/NP/NX  
Mr. Gerald Oplinger, DOD  
Mrs. Nataly Martin, DOE  
Mr. Robin DeLaBarre, DOS

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PDR XPORT  
XB-1236 PDR

OFFICE	IPEI	IPEI	IPEI				
SURNAME	EC Hemby: mh	RN Moore	MR Peterson				
DATE	7/19/85	7/22/85	7/23/85				

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

1. APPLICANT'S USE		a. DATE OF APPLICATION 16 July 1985		b. APPLICANT'S REFERENCE AMS-3		2. NRC USE		a. DOCKET NO. 11003775		b. LICENSE NO. XB001236	
3. APPLICANT'S NAME AND ADDRESS						4. SUPPLIER'S NAME AND ADDRESS (Complete if applicant is not supplier of material)					
a. NAME Edlow International Company as agent for: Amersham International Ltd.						a. NAME U.S. Department of Energy					
b. STREET ADDRESS 1815 H Street, N.W., Suite 910						b. STREET ADDRESS Oak Ridge National Laboratory					
c. CITY Washington,				STATE D.C.		ZIP CODE 20006		c. CITY Oak Ridge,			
d. TELEPHONE NUMBER (Area Code - Number - Extension) (202) 833-8237				STATE TN		ZIP CODE 37830					
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)			
As soon as possible		-----		-----		One (1) year from issuance		-----			
10. ULTIMATE CONSIGNEE						11. ULTIMATE END USE					
a. NAME Van Der Graaf Group						(Include plant or facility name) Manufacture accelerator targets to produce neutron beams for university and academic research purposes.					
b. STREET ADDRESS National Accelerator Centre, P.O. Box 72						11a. EST. DATE OF FIRST USE					
c. CITY - STATE - COUNTRY Faure CP 7131, South Africa						13. INTERMEDIATE END USE					
12. INTERMEDIATE CONSIGNEE						13a. EST. DATE OF FIRST USE					
a. NAME Amersham International Ltd.						Resale.					
b. STREET ADDRESS White Lion Road, Amersham						15. INTERMEDIATE END USE					
c. CITY - STATE - COUNTRY Buckinghamshire, England HP7 9LL						15a. EST. DATE OF FIRST USE					
14. INTERMEDIATE CONSIGNEE						15. INTERMEDIATE END USE					
a. NAME						15a. EST. DATE OF FIRST USE					
b. STREET ADDRESS											
c. CITY - STATE - COUNTRY											
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. WEIGHT		20. MAX. ISOPE WT.	
		Tritium				200 curies					
		*Copy to PDR and ACC 7-18-85.									
22. COUNTRY OF ORIGIN - SOURCE MATERIAL				23. COUNTRY OF ORIGIN - SNM WHERE ENRICHED OR PRODUCED U.S.A.				24. COUNTRIES WHICH ATTACH SAFEGUARDS (If Known)			
25. ADDITIONAL INFORMATION (Use separate sheet if necessary) Four (4) individual shipments of 50 curies each.											
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 Lisa R. Harrington				b. TITLE Assistant Operations Manager					

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JUL 17 1985  
EXPORT IMPORT  
INT'L SAFEGUARDS

DRE 850726038 7

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

1. APPLICANT'S USE		a. DATE OF APPLICATION 16 July 1985		b. APPLICANT'S REFERENCE AMS-4		2. NRC USE		a. DOCKET NO. 1100 3776		b. LICENSE NO. XB 001237	
3. APPLICANT'S NAME AND ADDRESS						4. SUPPLIER'S NAME AND ADDRESS (Complete if applicant is not supplier of material)					
a. NAME Edlow International Company as agent for: Amersham International Ltd.						a. NAME U.S. Department of Energy					
b. STREET ADDRESS 1815 F Street, N.W., Suite 910						b. STREET ADDRESS Oak Ridge National Laboratory					
c. CITY Washington,				STATE D.C.		ZIP CODE 20006		c. CITY Oak Ridge,			
d. TELEPHONE NUMBER (Area Code - Number - Extension) (202) 833-8237				STATE TN		ZIP CODE 37830					
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)			
As soon as possible		-----		-----		One (1) year from issuance		-----			
10. ULTIMATE CONSIGNEE						11. ULTIMATE END USE					
a. NAME African Explosives and Chemical Industries						(Include plant or facility name) For their isotope unit to complete tracing experiments.					
b. STREET ADDRESS											
c. CITY - STATE - COUNTRY Germiston 1400, South Africa						11a. EST. DATE OF FIRST USE					
12. INTERMEDIATE CONSIGNEE						13. INTERMEDIATE END USE					
a. NAME Amersham International Ltd.						Resale.					
b. STREET ADDRESS White Lion Road, Amersham											
c. CITY - STATE - COUNTRY Buckinghamshire, England HP7 9LL						13a. EST. DATE OF FIRST USE					
14. INTERMEDIATE CONSIGNEE						15. INTERMEDIATE END USE					
a. NAME											
b. STREET ADDRESS											
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. %		20. MAX. ISOTOPE WT.	
		Tritium				2 curies					
		<p style="text-align: center;">DRE 8507260 378</p> <p>*Copy to PDR and ACC 7-18-85*</p>									
22. COUNTRY OF ORIGIN - SOURCE MATERIAL				23. COUNTRY OF ORIGIN - SNM WHERE ENRICHED OR PRODUCED U.S.A.				24. COUNTRIES WHICH ATTACH SAFEGUARDS (If Known)			
25. ADDITIONAL INFORMATION (Use separate sheet if necessary) Two (2) individual shipments of 1 curie each.											
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 Lisa R. Harrington				b. TITLE Assistant Operations Manager					

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U.S. N.R.C.  
JUL 17 1985  
EXPORT INFO  
INT'L SAFEGUARDS