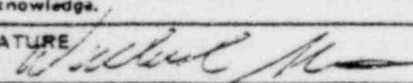


APPLICATION FOR LICENSE TO EXPORT NUCLEAR  
MATERIAL AND EQUIPMENT (See Instructions on Reverse)

1. APPLICANT'S USE		2. DATE OF APPLICATION		3. APPLICANT'S REFERENCE		4. NRC USE		5. DOCKET NO.		6. LICENSE NO.			
		June 23, 1980		D-47				1100-2111		XMAT0123			
7. APPLICANT'S NAME AND ADDRESS						4. SUPPLIER'S NAME AND ADDRESS							
a. NAME						b. NAME							
Sigma Chemical Company						1200 JUN 25 1980							
b. STREET ADDRESS						d. STREET ADDRESS							
3500 DeKalb Street													
c. CITY				STATE		ZIP CODE		d. STREET ADDRESS					
St. Louis				MO		63118							
d. TELEPHONE NUMBER (Area Code - Number - Extension)						c. CITY		STATE		ZIP CODE			
(314) 7715765 Ext. 202						L. SPANDE							
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)					
Est - as soon as license issued		Est - 2 yrs from license issue		Not established		2 yrs from issue		N/A					
10. ULTIMATE CONSIGNEE						11. ULTIMATE END USE							
a. NAME						b. NAME							
Imbros Surpath Systems Pty Ltd.						NMR Applications in Analytical Chemistry							
b. STREET ADDRESS						See attached							
GPO Box 1334													
c. CITY - STATE - COUNTRY						11a. EST. DATE OF FIRST USE							
Hobart 7001, Australia													
12. INTERMEDIATE CONSIGNEE						13. INTERMEDIATE END USE							
a. NAME													
b. STREET ADDRESS													
c. CITY - STATE - COUNTRY						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				18. MAX. ELEMENT WEIGHT		19. MAX. WT. %		20. MAX ISOTOPE WT.		21. UNIT	
		(Include chemical and physical form of nuclear material; give dollar value of nuclear equipment and components)											
		Compounds containing Deuterium; application is for shipment of equivalent of 10 kg of D <sub>2</sub> O liquid over a 2 year period. See attached.											
		<p style="text-align: center;">JUN 27 1980</p> <p style="text-align: center;">*Copy to PDR and ACC</p> <p style="text-align: center;">+OROO</p>											
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.								Unknown					
25. ADDITIONAL INFORMATION (Use separate sheet if necessary)													
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				b. TITLE					
								Walter C. Stern, V.P.					