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

1. APPLICANT'S USE		a. DATE OF APPLICATION Mar. 20, 1979		b. APPLICANT'S REFERENCE D-3		2. NRC USE		a. LICENSE NO. XMAT0034		b. DOCKET NO. 11000552			
3. APPLICANT'S NAME AND ADDRESS						RIS		4. SUPPLIER'S NAME AND ADDRESS (Complete if applicant is not supplier of material)				RIS	
a. NAME Sigma Chemical Company						Same no. 3							
b. STREET ADDRESS 3500 DeKalb Street						a. NAME							
c. CITY St. Louis				STATE MO.		ZIP CODE 63118		b. STREET ADDRESS					
d. TELEPHONE NUMBER (Area Code - Number - Extension) (314) 771-5765 Ext. 202						c. CITY				STATE ZIP CODE			
5. FIRST SHIPMENT SCHEDULED Est. - As soon as license issued		6. FINAL SHIPMENT SCHEDULED Est. - 2 yrs from license		7. APPLICANT'S CONTRACTUAL DELIVERY DATE Not Established		8. PROPOSED LICENSE EXPIRATION DATE 2 yrs from issue		9. U.S. DEPARTMENT OF ENERGY CONTRACT NO. (If Known) N/A					
10. ULTIMATE CONSIGNEE						RIS		11. ULTIMATE END USE (Include plant or facility name) NMR Applications in Analytical Chemistry. See attached article.					
a. NAME Sigma London Chemical Company, Ltd.						11a. EST. DATE OF FIRST USE							
b. STREET ADDRESS Fancy Road, Poole,						13. INTERMEDIATE END USE							
c. CITY - STATE - COUNTRY Dorset BH17 7NH England						13a. EST. DATE OF FIRST USE							
12. INTERMEDIATE CONSIGNEE						RIS		15. INTERMEDIATE END USE					
a. NAME None						15a. EST. DATE OF FIRST USE							
b. STREET ADDRESS													
c. CITY - STATE - COUNTRY													
14. INTERMEDIATE CONSIGNEE						RIS							
a. NAME													
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. WT. %		20. MAX. ISOTOPE WY.		21. UNIT	
		Compounds containing Deuterium; application is for shipment of equivalent of 50 kg of D <sub>2</sub> O liquid over a 2 - yr. period. See attached.  50 Kg of heavy water											
22. COUNTRY OF ORIGIN - SOURCE MATERIAL U.S.A.		23. COUNTRY OF ORIGIN - SNM WHERE ENRICHED OR PRODUCED				24. COUNTRIES WHICH ATTACH SAFEGUARDS (If Known) Unknown							
25. ADDITIONAL INFORMATION (Use separate sheet if necessary)  7904030371													
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.													