



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

DCS/DF02  
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NOV 26 1990

Mr. Carlton E. Thorne, Director  
Office of Nuclear Export Control  
Bureau of Oceans and International  
Environmental and Scientific Affairs  
U.S. Department of State  
Washington, D.C. 20520

Dear Mr. Thorne:

Enclosed is an application for an export license (XMAT0353), recently received by the Nuclear Regulatory Commission, for the export of 2,500 kilograms of heavy water. The heavy water is to be upgraded in Canada and returned to the United States to Martek Corporation.

Before taking action on this request, we would appreciate your views, in accordance with established procedures and from the overall perspective of the Executive Branch, as to whether the proposed export meets the applicable criteria in the Atomic Energy Act of 1954, as amended by the Nuclear Nonproliferation Act of 1978.

Sincerely,

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

Enclosure:  
Appl. dtd. 11/19/90  
(XMAT0353 - Canada)

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

9012030036 901126  
PDR XEORT  
XMAT-0353 PDC

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

1. APPLICANT'S USE		a. DATE OF APPLICATION 11-19-90		b. APPLICANT'S REFERENCE RIS		2. NRC USE		a. DOCKET NO. 11004379		b. LICENSE NO. XMA10353		
3. APPLICANT'S NAME AND ADDRESS						4. SUPPLIER'S NAME AND ADDRESS <small>(Complete if applicant is not supplier of material)</small>						
a. NAME Martek Corporation						a. NAME						
b. STREET ADDRESS 6480 Dobbin Road						b. STREET ADDRESS						
c. CITY Columbia			STATE MD		ZIP CODE 21045		b. STREET ADDRESS					
d. TELEPHONE NUMBER <small>(Area Code - Number - Extension)</small>						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. <small>(If Known)</small>				
January 1991		-NA-		-NA-		12/31/92						
10. ULTIMATE CONSIGNEE						11. ULTIMATE END USE <small>(Include plant or facility name)</small>						
a. NAME Ontario Hydro						Upgrade D <sub>2</sub> O to 99.92% isotope content and return to Martek						
b. STREET ADDRESS Bruce NGSB						11a. EST. DATE OF FIRST USE						
c. CITY - STATE - COUNTRY Tiverton, Ontario, NOG2T0 Canada						13. INTERMEDIATE END USE						
12. INTERMEDIATE CONSIGNEE						13a. EST. DATE OF FIRST USE						
a. NAME -NA-						15. INTERMEDIATE END USE						
b. STREET ADDRESS						15a. EST. DATE OF FIRST USE						
c. CITY - STATE - COUNTRY												
14. INTERMEDIATE CONSIGNEE												
a. NAME -NA-												
b. STREET ADDRESS												
c. CITY - STATE - COUNTRY												
16. NRC USE		17. DESCRIPTION <small>(Include chemical and physical form of nuclear material, give dollar value of nuclear equipment and components)</small>				18. MAX. ELEMENT WEIGHT		19. MAX. WT. %	20. MAX ISOTOPE WT.		21. UNIT	
		Liquid heavy water (deuterium oxide) downgraded				2500 kg			95% D <sub>2</sub> O			
22. COUNTRY OF ORIGIN - SOURCE MATERIAL USA				23. COUNTRY OF ORIGIN - SNM WHERE ENRICHED OR PRODUCED Canada				24. COUNTRIES WHICH ATTACH SAFEGUARDS <small>(If Known)</small>				
25. ADDITIONAL INFORMATION <small>(Use separate sheet if necessary)</small> 9011280433 1P Rec'd 11/20/90 3:15 pm												
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 <i>Richard Redman</i>			b. TITLE PRESIDENT						