

JUL 31 1985

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Stout, MM

Mrs. Eleanor Busick, Acting Director
Office of Nuclear Export/Import Control
Bureau of Oceans and International
Environmental and Scientific Affairs
Room 7820
U.S. Department of State
Washington, D.C. 20520

Dear Mrs. Busick:

Enclosed please find an application from Union Carbide Corporation for a license to export 150.0 Kilograms of nuclear-grade graphite to Japan for use in the manufacture of parts for the Hendel high-temperature gas cooled reactor.

Before taking action on this license application, we would appreciate your views, in accordance with established procedures, as to whether the proposed export meets the applicable criteria in the Atomic Energy Act as amended by the Nuclear Nonproliferation Act of 1978.

Sincerely,

Original Signed by

R. Neal Moore

R. Neal Moore, Acting Assistant Director
Export/Import and International
Safeguards
Office International Programs

Enclosure:
Appl. dtd. 7/24/85
(XMAT0320-Japan)

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

8508090744 850731
PDR XPORT
XMAT-0320 PDR

OFFICE	IPEI	WE					
URNAM	EOHemby:mr	RNMoore					
DATE	7/31/85	8/1/85					

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

1. APPLICANT'S USE		a. DATE OF APPLICATION 7/24/85		b. APPLICANT'S REFERENCE 70-5336-10		2. NRC USE U.S. DOCKET NO. 100-3784		b. LICENSE NO. XMAT0320	
3. APPLICANT'S NAME AND ADDRESS a. NAME Union Carbide Corporation b. STREET ADDRESS 39 Old Ridgebury Road - A1 c. CITY Danbury STATE CT ZIP CODE 06817						4. SUPPLIER'S NAME AND ADDRESS (Complete if applicant is not supplier of material) 85 JUL 29 1985 EXPORT IMPORT INTE SAFEGUARDS			
5. FIRST SHIPMENT SCHEDULED						6. FINAL SHIPMENT SCHEDULED		7. APPLICANT'S CONTRACTUAL DELIVERY DATE September 1985	
8. PROPOSED LICENSE EXPIRATION DATE December 1985						9. U.S. DEPARTMENT OF ENERGY CONTRACT NO. (If Known)			
10. ULTIMATE CONSIGNEE a. NAME Japanese Atomic Energy Research Inst. b. STREET ADDRESS Tokaimura Nakagun Ibaragis c. CITY - STATE - COUNTRY Prefecture Japan						11. ULTIMATE END USE (Include plant or facility name) See Attached			
12. INTERMEDIATE CONSIGNEE a. NAME Fuji Co, b. STREET ADDRESS c. CITY - STATE - COUNTRY Japan						13. INTERMEDIATE END USE Project Manager			
14. INTERMEDIATE CONSIGNEE a. NAME Tomoe Eng. Co., Ltd. b. STREET ADDRESS 9-2 Nihunbashi 3-Chome c. CITY - STATE - COUNTRY Chuo-Ku Tokyo, Japan						15. INTERMEDIATE END USE Trading Agent Only			
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. %	
		1 pc. 16 X 16 X 20" Carbon Block Grade TS-1887 Total Value: \$5,000.00 8508080587				327 Lbs. 150 Kilograms			
22. COUNTRY OF ORIGIN - SOURCE MATERIAL USA		23. COUNTRY OF ORIGIN - SNM WHERE ENRICHED OR PRODUCED USA				24. COUNTRIES WHICH ATTACH SAFEGUARDS (If Known)			
25. ADDITIONAL INFORMATION (Use separate sheet if necessary) See Attached for Physical Property Specifications Copy to PDR and ACC 7-30-85									
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 Walter K. Kearney				b. TITLE Export Control Specialist			

The material will be tested by the Japanese Atomic Energy Research Institute (Jaeri) to evaluate its suitability for the Hendel Reactor Core Support. The project is being managed by Fuji Co. The graphite will be used in the manufacture of thermal insulation parts in a high temperature gas cooled reactor which is currently under construction. This is similar to the reactor in Fort St. Vrain, Peach Bottom in the U.S. and is a multi-purpose reactor which will supply energy to steel and chemical companies. Previous NRC licenses which were issued for this same application and customer are XMAT 0290, XMAT 0304 and XMAT 0315. Physical property specifications (with grain) are as follow:

Bulk Density	1.55 - 1.65 g/cc
Flexural Strength	Approx. 2,000 psi
Ash	0.5%
Specific Resistance	Approx. 45 micro ohm meters