

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

PDR

1. APPLICANT'S USE		a. DATE OF APPLICATION 7/24/85		b. APPLICANT'S REFERENCE 70-5336-10		2. NRC USE		c. DOCKET NO. 1100-3784		d. LICENSE NO. XMAT0320	
3. APPLICANT'S NAME AND ADDRESS						4. SUPPLIER'S NAME AND ADDRESS					
a. NAME Union Carbide Corporation						b. NAME EXPORT IMPORT					
b. STREET ADDRESS 39 Old Ridgebury Road - A1						c. CITY - STATE - ZIP CODE Danbury CT 06817					
c. CITY						d. STREET ADDRESS					
d. TELEPHONE NUMBER (Area Code - Number - Extension) (203) 794-7048						e. CITY - STATE - ZIP CODE					
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						11. ULTIMATE END USE					
a. NAME Japanese Atomic Energy Research Inst.						b. NAME See Attached					
b. STREET ADDRESS Tokaimura Nakagun Ibaragis						11a. EST. DATE OF FIRST USE					
c. CITY - STATE - COUNTRY Prefecture Japan						12. INTERMEDIATE END USE					
12. INTERMEDIATE CONSIGNEE						13. INTERMEDIATE END USE					
a. NAME Fuji Co.						13a. EST. DATE OF FIRST USE					
b. STREET ADDRESS						14. INTERMEDIATE CONSIGNEE					
c. CITY - STATE - COUNTRY Japan						15. INTERMEDIATE END USE					
14. INTERMEDIATE CONSIGNEE						15a. EST. DATE OF FIRST USE					
a. NAME Tomoe Eng. Co., Ltd.						16. NRC USE					
b. STREET ADDRESS 9-2 Nihunbashi 3-Chome						17. DESCRIPTION					
c. CITY - STATE - COUNTRY Chuo-Ku Tokyo, Japan						18. MAX. ELEMENT WEIGHT 327 Lbs. 150 Kilograms					
18. NRC USE						19. MAX. WT. %					
19. MAX. WT. %						20. MAX. ISOTOPE WT.					
20. MAX. ISOTOPE WT.						21. UNIT					
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					

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The material will be tested by the Japanese Atomic Energy Research Institute (Jaeri) to evaluate its suitability for the Hendei 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