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APPLICATION FOR LICENSE TO EXPORT  
BYPRODUCT, SOURCE, OR SPECIAL NUCLEAR MATERIAL

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Submit in Triplicate

Carefully Read Instructions on Back

1. DATE OF APPLICATION April 10, 1980	2. APPLICANT'S REFERENCE NO. (if any) KMSF-0480-FR	3. COUNTRY OF ULTIMATE DESTINATION Italy
4. NAME OF APPLICANT KMS Fusion, Inc. STREET ADDRESS 3621 South State Road, P. O. Box 1567 CITY, STATE, AND ZIP CODE Ann Arbor, Michigan 48106 (313) 769-8500		5. ULTIMATE CONSIGNEE IN FOREIGN COUNTRY (Name and address) Dr. A. Caruso Laboratori Gas Ionizzati Associazione Euratom-CNEN Frascati, Rome, Italy
6. INTERMEDIATE CONSIGNEE IN FOREIGN COUNTRY (Give name and address. If same as ultimate consignee, state "Same.")  Same		7. IF PURCHASER IN FOREIGN COUNTRY IS OTHER THAN ULTIMATE CONSIGNEE, GIVE NAME AND ADDRESS. (If same, state "Same.")  Same
8. (a) QUANTITY TO BE SHIPPED (See instructions on back) 1 curie tritium	(b) COMMODITY DESCRIPTION (Include chemical and physical forms for special nuclear material and byproduct material also specify isotopic content; if in a device, identify the device, manufacturer, and model number.) Microshell glass pellets, about 0.1 mm diameter, containing mixtures of gaseous deuterium and tritium at approximately 10 atm. Tritium content not to exceed 100 mCi per shipment. Pellets are essentially impermeable to hydrogen at room temperature.	

(c) SHIPPING AND PACKING PROCEDURES (Required for special nuclear material. See instructions on back.)

See attached sheet.

9. END USE OF COMMODITIES COVERED BY THIS APPLICATION (Describe fully, stating what will be produced or manufactured, what service will be rendered, or the nature of the research that will be performed.) (See instructions on back for special nuclear material.)  
Pellets are to be used as targets in laser-fusion experiments at the Frascati Laboratory under the supervision of Dr. Caruso.

10. The applicant, and any official executing this certificate on behalf of the applicant named in Item 4, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Parts 30 and 36 (if for byproduct material) or Part 40 (if for source material), or Part 70 (if for special nuclear material), and Part 71 (for transport of radioactive material, if applicable) and that all information contained herein, including any supplements attached hereto, is true and correct to the best of their knowledge and belief.

KMS Fusion, Inc.  
(Applicant named in Item 4)  
*J. C. Widman*  
By: J.C. Widman, Radiological Safety Officer  
for H.J. Gomberg, President  
(Title of certifying official authorized to act on behalf of the applicant)

Warning: 18 U.S.C. Section 1001; Act of June 25, 1948: 62 Stat. 749; makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction

POOR ORIGINAL

## KMS fusion, inc.

Item 8 (c), Application KMSF-0480-FR

Pellets are attached to a thin post, which is supported by a polypropylene winged holder. The holders are individually sealed into 20 ml scintillation vials, which are cushion-packed into a 1/2 gallon (1.43 L) paint-type can. The can is cushion-packed into a 31 cm x 31 cm x 31 cm inner corrugated cardboard box, which in turn is cushion-packed into the outer 41 cm x 41 cm x 41 cm corrugated cardboard box.

The quantity to be shipped will be less than 100 mCi per shipment of tritium gas (Transport group VII) which is an exempt quantity.