

PDR

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

X8001157  
1102926

Submit in Triplicate 9 AM 11 35

Carefully Read Instructions on Back

1. DATE OF APPLICATION 3 August 1982	2. APPLICANT'S REFERENCE NO. (if any) KMSF-882-RU	3. COUNTRY OF ULTIMATE DESTINATION (United Kingdom)
4. NAME OF APPLICANT KMS Fusion, Inc. STREET ADDRESS P.O. Box 1567 CITY, STATE, AND ZIP CODE Ann Arbor, MI 48106 phone: 313/769-8500		5. ULTIMATE CONSIGNEE IN FOREIGN COUNTRY (Name and address) Dr. P. T. Rumsby Science Research Council Rutherford Laboratory Chilton, Didcot, Oxfordshire OX1100X United Kingdom
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) 300 curies tritium	(b) COMMODITY DESCRIPTION (Include chemical and physical form for special nuclear material and byproduct material also specify isotopic content; if in a device, identify the device, manufacturer, and model number.) Tritium as elemental gas contained in Microshell® hollow glass pellets approximately 0.1-0.5 millimeter diameter. Pellets may contain other gases such as deuterium and neon. The partial pressure of tritium in the pellets will be less than 20 atm. Pellets are essentially impermeable to tritium 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 Rutherford Laboratory.

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)

By: J. C. Widman  
Chairman, Radiation Safety Committee

(Title of certifying official authorized to act on behalf of the applicant)

\*Copy to EDR and ACC 8-9-82\*

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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

8. (c) Shipping and Packing Procedures

Multiple containment. Pellets are contained within an aluminum cylinder approximately 15 to 25 centimeters long, with a wall thickness of at least 3mm, of internal volume of several cubic centimeters, in a blind hole coaxial with the cylinder. The single open end is sealed with a CAJON metal-to-metal gas-tight seal. This assembly is carefully cushioned and packed into a 1 gallon paint can. The paint can is packed into a wooden box meeting the DOT 7A Type A specification.