

## DEPARTMENT OF THE ARMY

OFFICE OF THE DEPUTY CHIEF OF STAFF FOR LOGISTICS WASHINGTON, D.C. 20310

LOG/PE-ISB

2 JUL 1969

U.S. Atomic Energy Commission Division of Materials Licensing Isotopes Branch Washington, D. C. 20545

#### Gentlemen:

It is recommended that the attached application for amendment of BML No. 29-01022-06 issued to Fort Monmouth be approved.

An amendment is necessary in order to allow the possession of 50 sealed self-luminous tritium sources of 1.5 curies each. These sources will support an urgent project in Southeast Asia. Expeditious handling is requested.

Sincerely yours,

1 Incl As stated CHARLES F. HAAS
Chief, Industrial Support B

Chief, Industrial Support Branch PEMA Execution Division

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Form AEC-313/ (5-58) ATOMIC ENERGY COMMISSION

# APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Form approved. Some A

INSTRUCTIONS.—Complete Items 1 through 16 if this is an initial application. If application is for renewal of a license, complete only Items 1 through 7 and indicate new information or changes in the program as requested in Items 8 through 15. Use supplemental sheets where necessary, Item 16 must be completed on all applications. Mail three copies to: U. S. Atomic Energy Commission, Washington 25, D. C. Attention: Isotopes Branch, Division of Licensing and Regulation. Upon approval of this application, the applicant will receive an AEC Byproduct Material License. An AEC Byproduct Material License is issued in accordance with the general requirements contained in Title 10, Code of Federal Regulations, Part 30 and the Licensee is subject to Title 10, Code of Federal Regulations, Part 20.

1. (a) NAME AND STREET ADDRESS OF APPLICANT. (Institution, firm, hospital, person, etc.)

Department of the Army
US Army Electronics Command
Fort Monmouth, New Jersey 07703

(b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED. (If different from 1 (a).)

No Change

RO TOTAL

2. DEPARTMENT TO USE BYPRODUCT MATERIAL

No Change

3. PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a license, please indicate and give number.)

29-01022-06

4. INDIVIDUAL USER(S). (Name and title of individual(s) who will use or directly supervise use of byproduct material. Give training and experience in Items 8 and 9.)

 RADIATION PROTECTION OFFICER (Name of person designated as radiation protection officer if other than individual user. Attach resume of his training and experience as in Items 8 and 9.)

No Change

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No Change

 (a) BYPRODUCT MATERIAL. (Elements and mass number of each.)

O. - Tritium (Hydrogen - 3)

(b) CHEMICAL AND/OR PHYSICAL FORM AND MAXIMUM NUMBER OF MILLICURIES OF EACH CHEMICAL AND/OR PHYSICAL FORM THAT YOU WILL POSSESS AT ANY ONE TIME. (If sealed source(s), also state name of manufacturer, model number, number of sources and maximum activity per source.)

0.- 50 Betalights, sealed self-luminous sources. 0.- 75 curies total with no single source to exceed 1.5 curies. Sealed glass capsules, internally coated with phosphor, and filled with Tritium gas. The glass is impervious to Tritium and completely absorbs any beta radiation not already absorbed in the phosphor. The unit is a completely sealed source and as such does not present any external radiation hazard. The capsule is a type RO2/G/1300 pressurized and sealed off on the side instead of at the end as the drawing shows. Same characteristics of type RO2/G/380 shown. Mfg. by Conrad Precision Industries, Inc. 629 5th Ave., Pelham, N.Y. 10803 under N.Y State License 1308-1611.

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7. DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. (If byproduct material is for human use, supplement A (form AEC-313a) must be completed in lieu of this item. If byproduct material is in the form of a sealed source, include the make and model number of the storage container and/or device in which the source will be stored and/or used.)

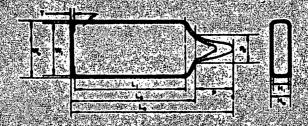
To be used in ground experiments for possible use in aircraft. Experiments will be conducted in the helicopter Test Area of the Evans Laboratory theses a S.E.A. 02 priority. All safety rules will be observed and necessary instruments, badges, and dosimeters will be used. Devices when not in use will be stored in the Radiological Vault T 383 Evans Area.

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"Form AEC =313 (5-58)"					,			•	P	age Two
TRAINING AND EXP	ERIENCE OF E	ACH INDIVIDU	IAL NA	MED IN ITEM	<b>4</b> 4 (	Use supplemen	ntal sheets if n	ecessary)		
8. TYPE OF TRAINING		WHERE TRAINED				DURATION OF ON THE JOB TRAINING (Circle answer)			FORMAL ( Circle a	
a. Principles and practices of radiation		No Change					Yes	No	Yes	No
b. Radioactivity, measurement standardize tion and monitoring techniques and instruments	$\sim$ 1 $\sim$	Strant Amen. ' We				CEIVED Yes No. Yes No.				, No
c. Mathematics and calculations basic to to use and measurement of radioactivity	SULF OF BUILDING	<del>Salata Salata</del> Toda Jaret Allata	<u></u> ∂ J2	, 19 <b>69</b> ,	JÜL :	3-0:PM0:			Yes	No
d. Biological effects of radiation	*****			J. S. A	TOMIC	ENERGY	COMM Yes	No	Yes	No
9. EXPERIENCE WITH RADIATION. , (Actual	al use of radioiso	topes or equivale	nt exper	rience.)	KEGU	LATORY	. *		,	
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10. RADIATION DETECTION INSTRUMENTS	1 '				1		- 1			
TYPE OF INSTRUMENTS (Include make and model number of each)	CONUMBERODO AVAILABLE OF DIFOT,	RADIATION DETECTED	SENSI	TIVITY RANGE	LUGG.	OW THICKNE _(mg/cm²)	SS (Monite	oring, survey	rauta ing, meas	uring)
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11. METHOD, FREQUENCY, AND STANDARDS	S USED IN CALIBRA	ATING INSTRUMEN	NTS LIST	ED ABOVE.						
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12. FILM BADGES, DOSIMETERS, AND BIO-AS	SSAY PROCEDURES	S USED. (For film	ı badges,	, specify method	of calib	rating and pro	cessing, or nam	e of supplie	r.)	
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	laboratory facilitie Yes No		dling equ				fume hoods, e	itc. Explar	natory sket	ich
14. RADIATION PROTECTION PROGRAM. Describe the radiation protection program including control measures. If application covers sealed sources, submit leak testing procedures where applicable, name, training, and experience of person to perform leak tests, and arrangements for performing initial radiation survey, servicing, maintenance and repair of the source.										
15. WASTE DISPOSAL of It as commercial waste disposal service is employed, specify name of company. Otherwise, submit detailed description of methods which will be used for disposing of radioactive wastes and estimates of the type and amount of activity involved.  No Change  **CONTROL OF CONTROL OF CERTIFICATE (This item must be completed by applicant)										
16. THE APPLICANT AND ANY OFFICIAL EXPREPARED IN CONFORMITY WITH TITLE 10 SUPPLEMENTS ATTACHED HERETO, IS THE	KECUTING THIS CE O, CODE OF FEDER	ERTIFICATE ON B	EHALF C	OF THE APPLICAL	NT NAM	MED IN ITEM I				
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Chairman, Isotopes Com	mittee	· .		Title of cert						
WARNING.—1.8 U. S. C., Section 100 representation to any department or agence						l offense to	make a willfu	lly false st	atement	or

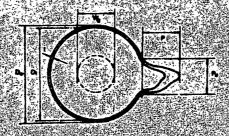
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Tube ordered type R02/G/1300 same dimensions as type R02/G/380 shown above with following exceptions: (1) Sealed off on side instead of at end. (2) Tube is pressurized.

### TYPE 8 --- SPHERE



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