



DEPARTMENT OF THE ARMY
HEADQUARTERS US ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND
5001 EISENHOWER AVENUE, ALEXANDRIA, VA. 22333

T. Grucci/seb/49340

DRCSF-P/80-0030

2 May 1980

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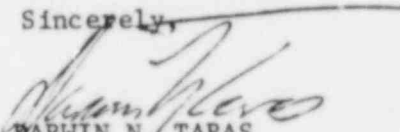
U.S. ARMY
MATERIEL DEVELOPMENT
AND READINESS
COMMAND
ALEXANDRIA, VA.

Director
Nuclear Material Safety and Safeguards
ATTN: Radioisotopes Licensing Branch
US Nuclear Regulatory Commission
Washington, DC 20555

Gentlemen:

Forwarded is Sacramento Army Depot application for amendment to Byproduct Material License Number 04-04279-01. This request is for possession and use of 5000 curie sealed cobalt-60 source, Picker Model P-3802A, in Picker Model C-9 Teletherapy Unit for the calibration of instruments. Please acknowledge receipt of correspondence on inclosed DA form 209 Reply Card.

Sincerely,


DARWIN N. TARAS
Chief, Health Physics
Safety Office

2 Incl
as

CF:

HQDA (DASG-PSP-E) Wash, DC 20310
DIR, DARCOM FSA, Charlestown, IN 47111

62966 (C/A)

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FEE EXEMPT

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Form AEC-313
8-64
10 CFR 30

UNITED STATES ATOMIC ENERGY COMMISSION
APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Form approved
Budget Bureau No. 38-R027

INSTRUCTIONS. — Complete Items 1 through 16 if this is an initial application or an application for renewal of a license. Information contained in previous applications filed with the Commission with respect to Items 8 through 15 may be incorporated by reference provided references are clear and specific. Use supplemental sheets where necessary. Item 16 must be completed on all applications. Mail two copies to: U.S. Atomic Energy Commission, Washington, D.C., 20545, Attention: Isotopes Branch, Division of Materials Licensing. 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. Include ZIP Code.)		(b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED (If different from 1 (a). Include ZIP Code.)	
Same as application dated 9 Feb 78.		Same as application dated 9 Feb 78.	
2. DEPARTMENT TO USE BYPRODUCT MATERIAL		3. PREVIOUS LICENSE NUMBER(S) (If this is an application for renewal of a license, please indicate and give number.)	
Same as application dated 9 Feb 78.		Amendment to BPM License No. 04-04279-01.	
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.)		5. 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.)	
Same as application dated 9 Feb 78.		Same as application dated 9 Feb 78.	
6. (a) BYPRODUCT MATERIAL (Elements and mass number of each.)		(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.)	
Add new item Cobalt-60		Sealed Source, Picker Model, P-3802A, one source not to exceed 5,000 curies. Depleted Uranium used as shielding in the head.	
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.)			
Add new item.			
For use in Model C-9 Teletherapy Unit for calibration of instruments.			

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TRAINING AND EXPERIENCE OF EACH INDIVIDUAL NAMED IN ITEM 4 (Use supplemental sheets if necessary)

8. TYPE OF TRAINING	WHERE TRAINED	DURATION OF TRAINING	ON THE JOB (Circle answer)	FORMAL COURSE (Circle answer)
a. Principles and practices of radiation protection	Same as application dated 9 Feb 78.		Yes No	Yes No
b. Radioactivity measurement standardization and monitoring techniques and instruments			Yes No	Yes No
c. Mathematics and calculations basic to the use and measurement of radioactivity			Yes No	Yes No
d. Biological effects of radiation			Yes No	Yes No

9. EXPERIENCE WITH RADIATION (Actual use of radioisotopes or equivalent experience)

ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE
Same as application dated 9 Feb 78.				

10. RADIATION DETECTION INSTRUMENTS (Use supplemental sheets if necessary)

TYPE OF INSTRUMENTS (Include make and model number of each)	NUMBER AVAILABLE	RADIATION DETECTED	SENSITIVITY RANGE (mr/hr)	WINDOW THICKNESS (mg/cm ²)	USE (Monitoring, surveying, measuring)
Same as application dated 9 Feb 78.					

11. METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED ABOVE.

Same as application dated 9 Feb 78 and letter dated 6 Dec 78.

12. FILM BADGES, DOSIMETERS, AND BIO-ASSAY PROCEDURES USED (For film badges, specify method of calibrating and processing, or name of supplier)

Same as application dated 9 Feb 78.

INFORMATION TO BE SUBMITTED ON ADDITIONAL SHEETS IN DUPLICATE

13. FACILITIES AND EQUIPMENT. Describe laboratory facilities and remote handling equipment, storage containers, shielding, fume hoods, etc. Explanatory sketch of facility is attached. (Circle answer) Yes No	Same as application dated 9 Feb 78.
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.	Same as application dated 9 Feb 78 with two additions.
15. WASTE DISPOSAL. If a 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.	Same as application dated 9 Feb 78.

CERTIFICATE (This item must be completed by applicant)

16. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE APPLICANT NAMED IN ITEM 1, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PART 30, AND THAT ALL INFORMATION CONTAINED HEREIN, INCLUDING ANY SUPPLEMENTS ATTACHED HERETO, IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF.

 Date 3 March 1980

Applicant named in item 1
 By: Fredrick T. Toyama
 FREDERICK T. TOYAMA
 Chairman, Radiation Control Committee
 Title of certifying official:
 Radiological Protection Officer

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.

Add the following paragraphs to the Radfological Control program submitted with the application on 9 Feb 78:

- a. Add to Source Security, para 5.

The source will be in safe ("off") position when not in use.

- b. Add new paragraph "F" to Operational Procedure.

- f. Teletherapy Unit, Picker Model C-9.

(1) Only authorized personnel will be allowed to operate this source.

(2) Obtain the key to the West Calibration Room from the Custodian of the key cabinet.

(3) Check to see if it is safe to operate the teletherapy unit. If it is not, wait until the source can be used safely.

(4) When the unit can be operated safely, open the door and go into the calibration room

(5) Position the object to be exposed.

(6) Leave the room, closing the door behind.

(7) Expose the object.

(8) Put the source in the safe position.

(9) Assure that the radiation level is safe before entering the room.

(10) Remove object.

(11) Leave calibration room, closing the door and return the key to the custodian of the key cabinet.