

Form AEC-313
(2-73)
10 CFR 30

UNITED STATES ATOMIC ENERGY COMMISSION
APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Form approved
Budget Bureau No. 38-80027

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: Materials Branch, Directorate of 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, and the license fee provisions of Title 10, Code of Federal Regulations, Part 170. The license fee category should be stated in item 16 and the appropriate fee enclosed. (See Note in Instruction Sheet).

1. (a) NAME AND STREET ADDRESS OF APPLICANT (institution, firm, hospital, person, etc. Include ZIP Code and telephone number.)

Naval Facilities Engineering Command
200 Stovall Street - Hoffman Building II
Alexandria, VA 22332

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

The United States of America, its Territories and Possessions, International Waters, and Antarctica, and any location under the jurisdiction of the Nuclear Regulatory Commission

2. DEPARTMENT TO USE BYPRODUCT MATERIAL

U. S. Navy

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

8-11817-13

45-16359-03 (renewal)

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.)

Authorized Users as defined in Encl. (1)

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.)

William J. Morris
Qualifications - Encl. (4)

6. (a) BYPRODUCT MATERIAL. (Elements and amount of each.)

See supplementary sheets: Enclosure (2)

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

Details of encapsulation, construction, and performance have been previously supplied to the NRC. Specific references are listed in enclosure (3).

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 receive, store, install, operate, service, and deliver to a carrier for transport radioisotope power generators identified in 6a and 6b above for the purpose of RDT&E or operation of apparatus, equipment, and systems.

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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	See Enclosure (1)		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 ACTIVITY	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE
		See Enclosure (1)		

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)
Navy instruments for monitoring α , β , γ , N, are available through and will be maintained and calibrated by the Naval Electronics Systems Command. Commercial instruments will be maintained and calibrated by Naval Research Laboratory.					

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

Performed by Naval Electronics Systems Command Reference NRC License No. 8-00035-12

12. FILM BADGES, DOSIMETERS, AND BIOASSAY PROCEDURES USED (For film badge, specify method of calibrating and processing, or name of supplier)

Use of film badges and dosimeters are bioassay procedures will be performed in accordance with NAVMED P-5055 Radiation Health Protection Manual.

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. Exploratory sketch of facility is attached (Circle answer) Yes No

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, safety monitoring, and report of the source.

See Enclosure (1)

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.

Disposal to an NRC or agreement state licensed contractor

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.

200 Stovall Street
Alexandria, Va. 22332

License Fee Category: _____

Fee Enclosed: _____

By S/ G. E. KRATTER
CDR, USN

Director Nuclear Power Division

Date: _____

Title of certifying official