

UNITED STATES ATOMIC ENERGY COMMISSION
APPLICATION FOR BYPRODUCT MATERIAL LICENSE

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.)

ARNOLD WF. LEONG
dba FIELD SERVICES
3744 AKEA ROAD
HANAPEPE, KAUAI, HAWAII, 96716
PHONE No. 808 335-3304

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

WILL BE USED AT VARIOUS CONSTRUCTION
SITES IN STATE OF HAWAII, BUT
PRIMARILY ON THE ISLAND OF KAUAI
HAWAII.

h+h 19305

2. DEPARTMENT TO USE BYPRODUCT MATERIAL

FIELD SERVICES

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

03120

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.)

ARNOLD WF. LEONG
OWNER/PERFORMING TECHNICIAN
FIELD SERVICES.

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.)

30-17298

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

Cs 137

(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.)

SEALED SOURCE, TROXLER DRAWING #102112
NO SOURCE TO EXCEED 9 mCi.

Am 241:Be

SEALED SOURCE, TROXLER DRAWING # 102451
NO SOURCE TO EXCEED 40 mCi/

Applicant.

Check No.

Amount/Fee Category

Type of Fee

Date Check Recd

Field Services
701 59-102/1213
#110(3L)
APPLICATION
FEB 22 1980

RECEIVED BY LFME

Date FEB 22 1980

Log.

By.

FEB. PG 57.4.
O'Brien

Action Comp 2/22/80

7. DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. (If byproduct material is for human use, supplement AEC 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.)

FOR USE IN TROXLER 3400 SERIES MODEL 3411B MOISTURE DENSITY
GAUGE TO MEASURE PROPERTIES OF CONSTRUCTION MATERIALS.

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INSPECTION AND ENFORCEMENT

02821

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

B. TYPE OF TRAINING	WHERE TRAINED	DURATION OF TRAINING	ON THE JOB (Circle answer)	FORMAL COURSE (Circle answer)
a. Principles and practices of radiation protection	TROXLER ELECTRONIC LAB, INC.	2 DAYS	Yes <input type="radio"/> No <input checked="" type="radio"/>	Yes <input checked="" type="radio"/> No <input type="radio"/>
b. Radioactivity measurement standardization and monitoring techniques and instruments	TROXLER ELECTRONIC LAB INC. US AIR FORCE	2 DAYS	Yes <input checked="" type="radio"/> No <input type="radio"/>	Yes <input checked="" type="radio"/> No <input type="radio"/>
c. Mathematics and calculations basic to the use and measurement of radioactivity	TROXLER ELECTRONIC LAB INC.	2 DAYS	Yes <input type="radio"/> No <input checked="" type="radio"/>	Yes <input checked="" type="radio"/> No <input type="radio"/>
d. Biological effects of radiation	TROXLER ELECTRONIC LAB INC. US AIR FORCE	2 DAYS	Yes <input checked="" type="radio"/> No <input type="radio"/>	Yes <input checked="" type="radio"/> No <input type="radio"/>

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

ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE
Cs 137	9 mCi			
Am 241:Be	40 mCi	TROXLER ELECTRONIC LAB INC.	2 DAYS	MOISTURE DENSITY GAUGE

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)
NONE					

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

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

FILM BADGES RS LANDAUER JR. CO.
GLENWOOD SCIENCE PARK
GLENWOOD, ILLINOIS, 60425

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 ☒

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. 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.

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

License Fee Category \$ 3, L
Fee Enclosed \$ 110.00

Date 14 FEB 1980

NO 1035 TIV
COMMISSION
S 6

ARNOLD WF. LEONG dba
FIELD SERVICES

Applicant named in Item 1

By:

OWNER/PERFORMING TECHNICIAN

Title of certifying official

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.

13. SEALED SOURCE WILL BE STORED INTERNALLY WITHIN MOISTURE DENSITY GAUGE. MOISTURE DENSITY GAUGE WILL BE STORED IN THE TRANSPORTING CARRIER WHICH WILL BE STORED IN A FIRE RESISTANT SECURED LOCKER. THE LOCKER WILL BE STORED IN A SECURED ROOM. THERE ARE NO LIVING QUARTERS WITHIN THE BUILDING AND NO REGULAR WORK PERFORMED WITHIN THE IMMEDIATE AREA.
14. FILM BADGES WILL BE WORN AT ALL TIMES WHEN HANDLING THE MACHINE INCLUDING DURING TIME OF TRANSPORT TO AND FROM JOB SITES. LEAK TESTING OF SEALED SOURCE WILL BE DONE I/A/W MANUFACTURER'S REQUIREMENTS AND PREVAILING REGULATIONS. TROXLER MODEL 3880 LEAK TEST KIT WILL BE USED TO ACCOMPLISH REQUIREMENTS.
15. SEALED SOURCE WILL BE RETURNED TO TROXLER ELECTRONICS LABS INC. FOR DISPOSAL
14. ADDITION. ARNOLD WF. LEONG WILL PERFORM LEAK TESTS. TRAINING BY TROXLER ELECTRONIC LABS INC. INITIAL RADIATION SURVEY, SERVICE AND MAINTENANCE OF INSTRUMENT TO BE PERFORMED BY TROXLER ELECTRONIC LABS INC.