

APPLICATION FOR BYPRODUCT MATERIAL LICENSE
INDUSTRIAL

a. NEW LICENSE

b. AMENDMENT TO
LICENSE NUMBER

X c. RENEWAL OF
LICENSE NUMBER
23-17885-01

See attached instructions for details.

Completed applications are filed in duplicate with the Division of Fuel Cycle and Material Safety, Office of Nuclear Material Safety, and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555 or applications may be filed in person at the Commission's office at 1717 H Street, NW, Washington, D. C. or 7915 Eastern Avenue, Silver Spring, Maryland.

2. APPLICANT'S NAME (Institution, firm, person, etc.)
Natl. Seafood Quality & Inspection Lab.
National Marine Fisheries Service
U.S. Dept. of Commerce
TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION
601-762-4591

3. NAME AND TITLE OF PERSON TO BE CONTACTED
REGARDING THIS APPLICATION
Bobby J. Wood
TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION
601-762-4591 25-499-4251

4. APPLICANT'S MAILING ADDRESS (Include Zip Code)
(Address to which NRC correspondence, notices, bulletins, etc., should be sent.)
P.O. Drawer 1207
Pascagoula, MS 39567-0112

5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED
(Include Zip Code)
3209 Frederic St.
Pascagoula, MS 39567-0112

(IF MORE SPACE IS NEEDED FOR ANY ITEM, USE ADDITIONAL PROPERLY KEYED PAGES.)

6. INDIVIDUAL(S) WHO WILL USE OR DIRECTLY SUPERVISE THE USE OF LICENSED MATERIAL
(See Items 16 and 17 for required training and experience of each individual named below.)

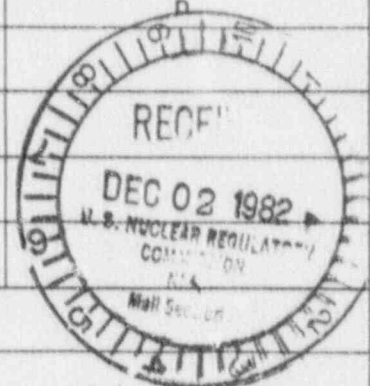
	FULL NAME	TITLE
a.	Bobby Jack Wood	Chemical Services Leader
b.		
c.		

7. RADIATION PROTECTION OFFICER
Bobby J. Wood
Attach a resume of person's training and experience as outlined in Items 16 and 17 and describe his responsibilities under Item 15.

B. LICENSED MATERIAL

LINE NO.	ELEMENT AND MASS NUMBER	CHEMICAL AND/OR PHYSICAL FORM	NAME OF MANUFACTURER AND MODEL NUMBER (If Sealed Source)	MAXIMUM NUMBER OF MILLICURIES AND/OR SEALED SOURCES AND MAXIMUM ACTIVITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME
	A	B	C	D
(1)	Nickel 63	See attachment for 9a.		
(2)				
(3)				
(4)				

EXE EXEMPT



DESCRIBE USE OF LICENSED MATERIAL
E

(1) The sealed detector cell containing Nickel 63 foil shall be used in Perkin-Elmer Model SIGMA 1, Gas Chromatograph with Temperature Protection Circuitry that cuts off at 450°C.

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9. STORAGE OF SEALED SOURCES

LINE NO.	CONTAINER AND/OR DEVICE IN WHICH EACH SEALED SOURCE WILL BE STORED OR USED. A.	NAME OF MANUFACTURER B.	MODEL NUMBER C.
(1)	See attachment.		
(2)			
(3)			
(4)			

10. RADIATION DETECTION INSTRUMENTS

LINE NO.	TYPE OF INSTRUMENT A.	MANUFACTURER'S NAME B.	MODEL NUMBER C.	NUMBER AVAILABLE D.	RADIATION DETECTED (alpha, beta, gamma, neutron) E.	SENSITIVITY RANGE (milliroentgens/hour or counts/minute) F.
(1)	None					
(2)						
(3)						
(4)						

11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10

<input type="checkbox"/> a. CALIBRATED BY SERVICE COMPANY NAME, ADDRESS, AND FREQUENCY Not applicable	<input type="checkbox"/> b. CALIBRATED BY APPLICANT Attach a separate sheet describing method, frequency and standards used for calibrating instruments. Not applicable
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12. PERSONNEL MONITORING DEVICES

TYPE (Check and/or complete as appropriate.) A.	SUPPLIER (Service Company) B.	EXCHANGE FREQUENCY C.
<input type="checkbox"/> (1) FILM BADGE <input type="checkbox"/> (2) THERMOLUMINESCENCE DOSIMETER (TLD) <input type="checkbox"/> (3) OTHER (Specify): _____ _____ _____	Not applicable	<input type="checkbox"/> MONTHLY <input type="checkbox"/> QUARTERLY <input type="checkbox"/> OTHER (Specify): _____ _____ _____

13. FACILITIES AND EQUIPMENT (Check where appropriate and attach annotated sketch(es) and description(s).)

- a. LABORATORY FACILITIES, PLANT FACILITIES, FUME HOODS (include filtration, if any), ETC.
- b. STORAGE FACILITIES, CONTAINERS, SPECIAL SHIELDING (fixed and/or temporary), ETC.
- c. REMOTE HANDLING TOOLS OR EQUIPMENT, ETC.
- d. RESPIRATORY PROTECTIVE EQUIPMENT, ETC.

14. WASTE DISPOSAL

a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLOYED
 Not applicable

b. IF COMMERCIAL WASTE DISPOSAL SERVICE IS NOT EMPLOYED, SUBMIT A DETAILED DESCRIPTION OF METHODS WHICH WILL BE USED FOR DISPOSING OF RADIOACTIVE WASTES AND ESTIMATES OF THE TYPE AND AMOUNT OF ACTIVITY INVOLVED. IF THE APPLICATION IS FOR SEALED SOURCES AND DEVICES AND THEY WILL BE RETURNED TO THE MANUFACTURER, SO STATE.

INFORMATION REQUIRED FOR ITEMS 15, 16 AND 17

Describe in detail the information required for Items 15, 16 and 17. Begin each item on a separate page and key to the application as follows:

15. **RADIATION PROTECTION PROGRAM.** Describe the radiation protection program as appropriate for the material to be used including the duties and responsibilities of the Radiation Protection Officer, control measures, bioassay procedures (*if needed*), day-to-day general safety instruction to be followed, etc. If the application is for sealed source's also submit leak testing procedures, or if leak testing will be performed using a leak test kit, specify manufacturer and model number of the leak test kit.

16. **FORMAL TRAINING IN RADIATION SAFETY.** Attach a resume for each individual named in Items 6 and 7. Describe individual's formal training in the following areas where applicable. Include the name of person or institution providing the training, duration of training, when training was received, etc.
 - a. Principles and practices of radiation protection.
 - b. Radioactivity measurement standardization and monitoring techniques and instruments.
 - c. Mathematics and calculations basic to the use and measurement of radioactivity.
 - d. Biological effects of radiation.

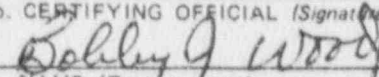
17. **EXPERIENCE.** Attach a resume for each individual named in Items 6 and 7. Describe individual's work experience with radiation, including where experience was obtained. Work experience or on-the-job training should be commensurate with the proposed use. Include list of radioisotopes and maximum activity of each used.

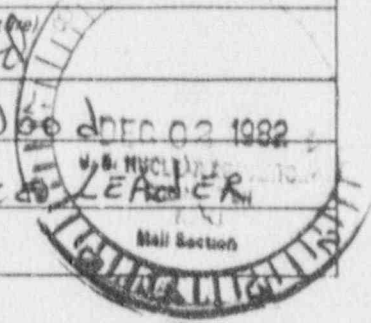
18. CERTIFICATE

(This item must be completed by applicant)

The applicant and any official executing this certificate on behalf of the applicant named in Item 2, 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.

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.

a. LICENSE FEE REQUIRED <i>(See Section 170.31, 10 CFR 170)</i>	b. CERTIFYING OFFICIAL <i>(Signature)</i> 
(1) LICENSE FEE CATEGORY:	c. NAME <i>(Type or print)</i> Bobby J Wood
(2) LICENSE FEE ENCLOSED: \$	d. TITLE CHEMICAL SERVICES LEADER e. DATE 11/30/82



9a. Deposited on gold or platinum foil, sealed in Detector Cell,
Perkin-Elmer Part No. 330-0119.

Foil manufactured by:

New England Nuclear Corp.
575 Albany
Boston, MA
Foil Model NER-002

OR

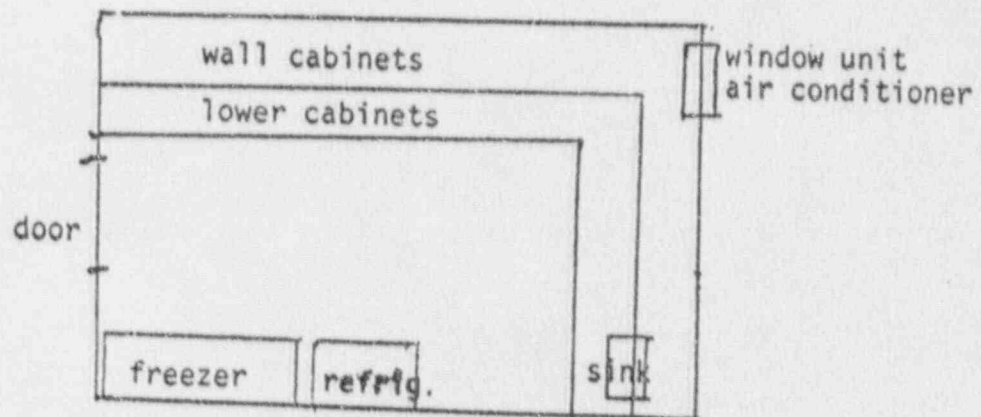
Nuclear Radiation Development Corp.
2937 Alt Blvd.
Grand Island, NY
Foil Model N1001

OR

Amersham/Searle Corp.
2637 S. Clearbrook Dr.
Arling Heights, IL
Foil Model N.B.C. 7020

Foil strength is 10 millicuries. No single detector contains more
than 15 millicuries.

13a. Laboratory walls constructed of Arkansas tile and ceiling of sheetrock. The floor space is 96 sq. ft. with cabinets on one side and end, with floor and cabinets of wood construction. The laboratory is cooled by a 1-1/2 ton air conditioner window unit.



15. Licensed material used by or under supervision of Bobby J. Wood. Laboratory housing the instrument has signs posted warning of radioactive material and off limits to unauthorized personnel.

The wipe test is performed as follows:

1. Switch the Analyzer off and allow the detector to cool.
2. Expose the detector by pulling the detector cover forward and downward. The cover may be detached completely if required.
3. Pull off the collector housing.
4. Refer to the instructions included with the wipe test kit (part No. 009-1667) supplied with the detector, and wipe the external surfaces of the cell. Once the wipe test paper has been moistened and any part of the cell has been wiped, do not re-moisten the paper. Also, do not allow any of the wipe test solution to enter the cell.
5. Put the paper in the container provided in the wipe test. Include a data sheet stating that the wipe test was performed on a Perkin-Elmer electron capture detector cell, and give date of the test.

16. No training received.

17. Bobby J. Wood has 1-1/2 years experience with H_3 (130 mc) working with FDA, New Orleans, LA, and 6 years working with H_3 (130 mc) and 5 years Ni 63 (15 mc) at the laboratory in Pascagoula, MS.