

FORM NRC-313 I  
(1-79)  
10 CFR 30

U.S. NUCLEAR REGULATORY COMMISSION

APPLICATION FOR:  
(Check and/or complete as appropriate)

APPLICATION FOR BYPRODUCT MATERIAL LICENSE  
INDUSTRIAL

X a. NEW LICENSE

b. AMENDMENT TO  
LICENSE NUMBER

RENEWAL OF  
LICENSE NUMBER

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.)

Atlantic Gelatin Div., General Foods Corp.

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION

3. NAME OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION

Norman E. Mahoney

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION

617-933-2800, Ext. 321

4. APPLICANT'S MAILING ADDRESS (Include Zip Code)

Hill Street  
Woburn, MA 01801

5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED  
(Include Zip Code)

Same as #4

(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. Norman E. Mahoney

Chemist

b. William J. Collins

Mgr. Technical Services

7. RADIATION PROTECTION OFFICER

Norman E. Mahoney

Attach a resume of person's training and experience as outlined in Items 16 and 17 and describe his responsibilities under Item 15.

8. LICENSED MATERIAL

L I N E	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 ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME
NO.	A	B	C	D
(1)	Nickel 63	Deposited on	Please see	15
(2)		Gold or	Attachment 8C	
(3)		platinum Foil.		
(4)		Sealed in	Perkin Elmer	
		Detector Cell	No. 333-0119	

License Fee Information

on Reverse Side

DESCRIBE USE OF LICENSED MATERIAL

E

- (1) The sealed detector Nickel 63 foil shall be used in a Perkin Elmer
- (2) Sigma 3 Gas Chromatograph, with temperature protection circuitry
- (3) which cuts off at 450°C.

"OFFICIAL RECORD COPY"

04591

(4) 8008180177

ML10

## 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)	330-0119 Detector Cell in	Perkin Elmer	Sigma 3
(2)	Gas Chromatograph		
(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)			Not Applicable			
(2)						
(3)						
(4)						

## 11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10

☐ a. CALIBRATED BY SERVICE COMPANY

NAME, ADDRESS, AND FREQUENCY

Not Applicable

☐ b. CALIBRATED BY APPLICANT

Attach a separate sheet describing method, frequency and standards used for calibrating instruments.

Not Applicable

## 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"/> MONTHLY
<input type="checkbox"/> (2) THERMOLUMINESCENCE DOSIMETER (TLD) N.A.		<input type="checkbox"/> QUARTERLY
<input type="checkbox"/> (3) OTHER (Specify): _____		<input type="checkbox"/> OTHER (Specify): _____

## 13. FACILITIES AND EQUIPMENT (Check were 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 (If used, detail room, container, etc.), ETC.☐ c. REMOTE HANDLING TOOLS OR EQUIPMENT, ETC.☐ d. RESPIRATORY PROTECTIVE EQUIPMENT, ETC. Effluent gases vent to hood.

## 14. WASTE DISPOSAL

a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLOYED

Either of the companies listed under #15 Radiation Protection.

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.

Applicant...	010642
Check No.	710(3L)
Amount/Fee	APPLICATION
Type of	JUL 15 9 1980
Date Check	PRODM
Received By	PRODM

## 18. CERTIFICATE (This item must be completed by applicant)

RECEIVED BY LFMB	
Date	JUL 29 1980
Log	JUL 16 9 11 L
By	PRODM
Orig To	
Action Compl	7/31/80

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 (See Section 170.31, 10 CFR 170)	b. CERTIFYING OFFICIAL (Signature) George A. Consolazio
(1) LICENSE FEE CATEGORY:	c. NAME (Type or print) George A. Consolazio
(2) LICENSE FEE ENCLOSED: \$	d. TITLE Manager of Technical Development
	e. DATE July 18, 1980

8. LICENSED MATERIAL

- C. The gold or platinum foil containing the Nickel 63 in the Perkin Elmer sealed detector cell may be supplied by any one of the following manufacturers:

New England Nuclear Corporation  
575 Albany Street  
Boston, Massachusetts 02118

Foil Model #NER-002

Nuclear Radiation Development Corp.  
2937 Alt Boulevard  
Grand Island, New York 14070

Foil Model N1001

Amersham/Searle Corporation  
2637 S. Clearbrook Drive  
Arlington Heights, Illinois

Foil Model NBC 7020

15. RADIATION PROTECTION PROGRAM

Installation operation and wipe testing of the instrument will be done according to the instrument instruction manual.

Wipe tests will be conducted every six months with the materials in the wipe test kit Perkin Elmer (No. 009-1667). Material from the wipe test will be sent to one of the following for a radiation survey:

Nuclear Radiation Dev. Corp.  
2937 Alt Boulevard  
Grand Island, New York 14070

or

Nuclear Sources and Services, Inc.  
5711 Ethridge Street  
Houston, Texas 77017

Cell cleaning and foil replacement will be performed by one of the above.

16. TRAINING IN RADIATION SAFETY

1. Norman Mahoney

B.S. Chemistry - Tufts University

2. William J. Collins

A.B. Chemistry - Bowdoin College

B.S. Chemical Engineering - University of Maine

17. EXPERIENCE

1. Norman Mahoney - Fifteen years of experience in gas chromatograph using various detectors. Have used Nickel 63 detector at General Foods Technical Center, Tarrytown, New York.
  
2. William J. Collins - Thirty-two years experience in chemistry and chemical engineering applications at Atlantic Gelatin Division, General Foods Corp.



BETWEEN: William O. Miller, Chief  
License Fee Management Branch  
Office of Administration -

John E. Glenn, Chief  
Nuclear Materials Section B  
Division of Engineering and  
Technical Programs

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

Applicant/Licensee: General Foods Corporation

Application Dated: 6/25/85

Control No.: 04063

License No.: 20 13627-02

2. FEE ATTACHED

Amount: \$ 150.00

Check No.: 030818

3. COMMENTS

Signed Brenda Platchek

Date 7/9/85

03123

B. LICENSE FEE MANAGEMENT BRANCH

1. Fee Category and Amount: 3P - (\$150 - \$30 refunded) 8/85

2. Correct Fee Paid. Application may be processed for:

Amendment                     

Renewal ✓

License                     

Signed D. Jackson

Date 7/15/85