NRC FORM 464 Part I (6-1998)

U.S. NUCLEAR REGULATORY COMMISSION

RESPONSE TO FREEDOM OF INFORMATION ACT (FOIA) / PRIVACY ACT (PA) REQUEST

FOIA/PA	RESPONSE NUMBER
2000-0261	1

RESPONSE TYPE ☑ FINAL ☐ PARTIAL

REQUESTER: Wesley R. Van Pelt

DATE: SEP - 7 2000

PART I. -- INFORMATION RELEASED

☐ No additional agency records subject to the request have been located.

☐ Requested records are available through another public distribution program. See Comments section.

☑ APPENDICES A — Agency records subject to the request that are identified in the listed appendices are already available for public inspection and copying at the NRC Public Document Room.

☑ APPENDICES B — Agency records subject to the request that are identified in the listed appendices are being made available for public inspection and copying at the NRC Public Document Room.

☑ Enclosed is information on how you may obtain access to and the charges for copying records located at the NRC Public Document Room, 2120 L Street, NW, Washington, DC.

☑ APPENDICES B — Agency records subject to the request are enclosed.

___ Records subject to the request that contain information originated by or of interest to another Federal agency have been referred to that agency (see comments section) for a disclosure determination and direct response to you.

___ We are continuing to process your request.

___ See Comments.

PART I.A -- FEES

AMOUNT *

$

* See comments for details

___ You will be billed by NRC for the amount listed.

___ You will receive a refund for the amount listed.

☑ None. Minimum fee threshold not met.

___ Fees waived.

PART I.B -- INFORMATION NOT LOCATED OR WITHHELD FROM DISCLOSURE

___ No agency records subject to the request have been located.

___ Certain information in the requested records is being withheld from disclosure pursuant to the exemptions described in and for the reasons stated in Part II.

___ This determination may be appealed within 30 days by writing to the FOIA/PA Officer, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001. Clearly state on the envelope and in the letter that it is a "FOIA/PA Appeal."

PART I.C COMMENTS (Use attached Comments continuation page if required)

SIGNATURE - FREEDOM OF INFORMATION ACT AND PRIVACY ACT OFFICER

Carol Ann Reed Carol Ann Reed

RE: FOIA-2000-0261

APPENDIX A
RECORDS ALREADY AVAILABLE IN THE PDR

NO.	DATE	ACCESSION#	DESCRIPTION/(PAGE COUNT)
1.	04/03/90	9007130081	Termination for Amend 6 to License SMB-201 (13 pages)

RE: FOIA-2000-0261

APPENDIX B
RECORDS BEING RELEASED IN THEIR ENTIRETY

NO.	DATE	DESCRIPTION/(PAGE COUNT)
1.	04/08/96	Ltr from Donald A Cool to F Turk (1 page)
2.	01/29/96	Materials License (3 pages)
3.	04/25/95	Application for Material License (3 pages)
4.	04/25/86	Ltr from R R Russell to USNRC (2 pages)
5.	12/01/83	Ltr from P Del Boca to USNRC (2 pages)
6.	11/28/78	Ltr from P Del Boca to USNRC Attn: P Guinn (2 pages)
7.	10/27/78	Renewal of Byproduct Material License 29-10211-01 (5 pages)

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

April 8, 1996

FISHER SCIENTIFIC COMPANY
ATTN: Mr. FRED TURK
Radiation Safety Officer

1 REAGENT LANE
FAIR LAWN, NJ 07410

SUBJECT: ONE-TIME EXTENSION OF LICENSE EXPIRATION DATE
LICENSE NUMBER 29-10211-01, DOCKET NUMBER 3005379

Dear Mr. FRED TURK

On January 16, 1996, the Nuclear Regulatory Commission (NRC) amended its regulations in 10 CFR 30, 40, and 70 to extend the expiration date of certain byproduct, source, and special nuclear material licenses by five years (61 FR 1109). The above referenced license was extended by this rulemaking and will now expire on January 31, 2006. Your license will not be amended to show this extended date until the next routine licensing action. Until then, you may provide copies of this letter to vendors and other interested parties as evidence that the license has been extended as a result of the rule.

The extended license authorizes the same activities and contains the same limitations as it previously did. There will be no change in the frequency that the NRC inspects activities authorized by this license.

The amended rules state that in the case of licensees who are granted extensions and who have a currently pending renewal application for that extended license, the application will be considered withdrawn by the licensee and any renewal fees paid by the licensee for that application will be refunded. This will apply to licenses with expiration dates after July 1, 1995, for which renewal applications and the appropriate fees have been submitted and the renewal is still pending. Refunds will be mailed to licensees under separate cover.

All licensees, including those whose renewal applications were withdrawn by this rulemaking, who wish to change their radiation safety programs must request amendment of their licenses to reflect these changes. Amendment requests must include the correct amendment fee since the NRC cannot apply pending renewal refund balances toward amendment fees.

If you have any questions regarding this letter, please contact the individual below.

Frank Costello, Chief Branch 3 - (610) 337-5275

Thank you for your cooperation in this matter.

Sincerely,

Donald A. Cool, Director
Division of Industrial and Medical Nuclear Safety
Office of Nuclear Materials Safety and Safeguards

ITEM # 1

bll

NRC FORM 374
(7-94)

U.S. NUCLEAR REGULATORY COMMISSION

MATERIALS LICENSE

Amendment No. 20

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

OFFICIAL RECORD COPY

Licensee	
1. Fisher Scientific Company	In accordance with the application dated April 25, 1995, 3. License Number 29-10211-01 is amended in its entirety to read as follows:
2. 1 Reagent Lane Fair Lawn, New Jersey 07410	4. Expiration Date January 31, 2001
	5. Docket or Reference No. 030-05379

6. Byproduct, Source, and/or Special Nuclear Material	7. Chemical and/or Physical Form	8. Maximum Amount that Licensee May Possess at Any One Time Under This License
A. Hydrogen 3	A. Any	A. 400 microcuries
B. Carbon 14	B. Any	B. 600 microcuries
C. Phosphorus 32	C. Any	C. 10 microcuries
D. Cesium 137	D. Sealed sources	D. 40 microcuries
E. Nickel 63	E. Plated sources	E. 275 millicuries

9. Authorized use

A. through D. For use in instrument calibration standards.
E. In electron capture detector cells which are distributed under a specific license issued by the U. S. Nuclear Regulatory Commission or any Agreement State.

CONDITIONS

10. Licensed material may be used only at the licensee's facilities located at 1 Reagent Lane, Fair Lawn, New Jersey, and at 755 State Highway 202, Somerville, New Jersey.

11. Licensed material shall be used by, or under the supervision of, Ed Hess, Peter Okolovitch, Frank Tse, or Fred Turk.

12. The Radiation Safety Officer for this license is Fred Turk.

13. A. Sealed sources and detector cells containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed three years.

B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed three months

ITEM # 2

ML 10

C. In the absence of a certificate from a transferor indicating that a leak test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.

D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.

E. Sealed sources and detector cells need not be leak tested if:

(i) they contain only hydrogen-3; or

(ii) they contain only a radioactive gas; or

(iii) the half-life of the isotope is 30 days or less; or

(iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or

(v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transfer to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.

F. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source or detector cell shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within five days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source or detector cell involved, the test results, and corrective action taken.

G. The licensee is authorized to collect leak test samples for analysis by the licensee. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.

14. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.

15. The licensee shall not acquire licensed material in a sealed source or device unless the source or device has been registered with the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations of an Agreement State.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number
29-10211-01
Docket or Reference number
030-05379

Amendment No. 20

16. The licensee shall conduct a physical inventory every six months to account for all sealed sources and devices containing licensed material received and possessed under the license.

17. Maintenance, repair, cleaning, replacement, and disposal of foils contained in detector cells shall be performed only by the device manufacturer or other persons specifically authorized by the Commission or an Agreement State to perform such services.

18. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

19. In addition to the possession limits in Item 8 the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d), 40.36(b), and 70.25(d) for establishing financial assurance for decommissioning.

20. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

A. Application dated October 27, 1978
B. Letter dated November 28, 1978
C. Letter dated December 1, 1983
D. Letter dated April 25, 1986
E. Application dated April 25, 1995

For the U.S. Nuclear Regulatory Commission

Date JAN 29 1996

By Original Signed By:
John R. McGrath

Nuclear Materials Safety Branch
Region I
King of Prussia, Pennsylvania 19406

NRC FORM 313
(10-94)
10 CFR 30, 32, 33
34, 35, 36, 39 and 40

U. S. NUCLEAR REGULATORY COMMISSION

APPLICATION FOR MATERIAL LICENSE

APPROVED BY OMB: NO. 3150-0120
EXPIRES 6-30-96

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 9 HOURS. SUBMITTAL OF THE APPLICATION IS NECESSARY TO DETERMINE THAT THE APPLICANT IS QUALIFIED AND THAT ADEQUATE PROCEDURES EXIST TO PROTECT THE PUBLIC HEALTH AND SAFETY. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (T-6 F33), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0120), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW. 030 - 05379

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

LICENSING ASSISTANT SECTION
NUCLEAR MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION II
101 MARIETTA STREET, NW, SUITE 2900
ATLANTA, GA 30323-0199

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
801 WARRENVILLE RD.
LISLE, IL 60532-4351

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-8064

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S.NUCLEAR REGULATORY COMMISSION JURISDICTIONS.

1. THIS IS AN APPLICATION FOR *(Check appropriate item)*
   - [ ] A. NEW LICENSE
   - [ ] B. AMENDMENT TO LICENSE NUMBER _____
   - [X] C. RENEWAL OF LICENSE NUMBER 29-10211-01

2. NAME AND MAILING ADDRESS OF APPLICANT *(Include Zip code)*
   Fisher Scientific Company
   1 Reagent Lane
   Fair Lawn New Jersey 07410

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED
   Same (No change)

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION
   William Marmo

   TELEPHONE NUMBER
   (201) 796-7100

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL.
   a. Element and mass number; b. chemical and/or physical form; and c. maiximum amount which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

12. LICENSEE FEES *(See 10 CFR 170 and Section 170.31)*
    FEE CATEGORY 3P | AMOUNT ENCLOSED $ 6fo

13. CERTIFICATION. *(Must be completed by applicant)* THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39 AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR 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.

CERTIFYING OFFICER – TYPED/PRINTED NAME AND TITLE	SIGNATURE	DATE
William Marmo Regulatory Affairs Officer	William Marmo	4/25/95

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			$		ITEM # 3 B/3
APPROVED BY				DATE	

NRC FORM 313 (10-94)

PRINTED ON RECYCLED PAPER

OFFICIAL RECORD COPY ML 10

APR 27 1995

121700

(3)

Fisher Scientific
1 Reagent Lane
Fair Lawn, N.J. 07410
(201) 796-7100

April 25, 1995

U.S. Nuclear Regulatory Commission
Region I Material Licensing
475 Allendale Road
King of Prussia, PA 19406

Gentlemen:

Fisher Scientific submits for your approval its request for renewal of its NRC material License Number 29-10211-01.

The license as now written reflects our overall program.

We do request the following changes:

Paragraph 6	ADD: G.	Nickel 63
	H.	Nickel 63
Paragraph 7	ADD: G.	Plated Source (Hewlett Packard Model G1223A Detector Cells)
	H.	Plated Source (Varian Model N03-917440 Detector Cell)
Paragraph 8	ADD: G.	Not to exceed 15 millicuries per source and 120 millcuries total
	H.	Not to exceed 8 millicuries per source and 16 millicuries total
Paragraph 9	ADD: G and H. For use in Gas Chromatography for sample analysis	
Paragraph 11	Delete: Dan Koetters, Natvar Desai ADD: Peter Okolovitch, ED Hess	

Fisher has acquired new gas chromatography in their Laboratory. These new instruments have new model detectors which I have requested be put on the license. These detectors will be subject to the leak test requirements as stated on the license.
The names of people being deleted no longer work for the company.

A check for the renewal is enclosed.

Thank you,

William Marmo

Enclosure

THE HENLEY GROUP INC.

Liberty Lane
Hampton, New Hampshire 03842

RICHARD R. RUSSELL
Managing Director

April 25, 1986

U.S. Nuclear Regulatory Commission
Region I
631 Park Avenue
King of Prussia, PA 19406

Attention: Nuclear Materials

Re: Fisher Scientific Company
Bridgewater and Fairlawn, New Jersey, Facility
License SMB-201
Repackaging and Distribution of Chemical Reagents

Gentlemen:

Allied Corporation through its wholly-owned subsidiary Fisher Scientific Company is the owner and operator of facilities in Bridgewater and Fairlawn, New Jersey, and in connection with such operations holds in the name of Fisher Scientific Company the above referenced license from the Nuclear Regulatory Commission. As part of a reorganization of its businesses, Allied intends to transfer certain assets, including the stock of Fisher Scientific Company, to a wholly-owned subsidiary of The Henley Group Inc. Thus, the Fairlawn and Bridgewater facilities will then be operated by Fisher Scientific as a wholly-owned subsidiary of The Henley Group Inc.

After the transfer of the stock of Fisher Scientific to Henley and after certain internal corporate transfers, 70 percent of the stock of The Henley Group Inc. will then be distributed to holders of the stock of Allied's parent corporation, and Allied's parent will retain the remaining 30 percent share. We expect that this distribution will take place in mid to late May.

After the above distribution, The Henley Group, through its Fisher Scientific subsidiary, plans no changes in the operations or management structure of the Bridgewater and Fairlawn facilities. In particular, there are no contemplated changes in key personnel having responsibilites for radiation control or in the control procedures described in the original license application.

This letter is intended as notice regarding the above reorganization and as a request to your office for approval of a transfer of the above license as part of the change in stock ownership of Fisher Scientific Company from Allied Corporation to The Henley Group Inc. Of course, in connection with the requested transfer, both The Henley Group and its Fisher Scientific Company subsidiary will comply with all applicable regulations and with the terms and conditions of the referenced license.

If I can provide additional information, please contact me at your convenience. Assuming you have no objection, I would appreciate your written confirmation of the Commission's agreement to this transfer. Thank you for your cooperation.

Very truly yours,

Richard R. Russell

RRR:sl

cc: Pat Link
Harold Himmelman

Fisher Scientific

Chemical Manufacturing Division
1 Reagent Lane
Fair Lawn, NJ 07410
(201) 796-7100

December 1, 1983

U. S. Nuclear Regulatory Commission
Material Licensing Branch
Division of Fuel Cycle and Material Safety
Washington, D.C. 20555

'83 DEC -5 P3:18

Dear Sir or Madam:

RE: Byproduct Material License No. 29-10211-01
Expiration Date: 1/31/84
Program Code: 03123

The above referenced license is due to expire but I would like to renew it so we can continue operating under our current license with the changes noted below:

1. License Amendment

Item #12: Delete the name of Stan Isbell.
Add Frank Tse and J.J. Tang.
Frank Tse (Senior Analytical Chemist) has had
-2 months OJT at Fisher Scientific Co.
-10 hours college courses at Murray State University
-30 hours Radiochemistry course at Murray State University
J.J. Tang (Analytical Chemist) has had
-2 months OJT at Fisher Scientific Company
-10 hours college courses, Taiwan
-10 hours graduate courses, Polytechnic Institute of N. Y.
(all listed training pertained to radiation/radioactivity)

2. Application Update

My original application dated October 27, 1978 has changed in two respects.

a) Item #12 (Film Badges, Dosimeters, Bioassay Procedures Used)
- Film badges are changed quarterly (not monthly).

b) Item #14 (Radiation Protection Program)
- Wipe tests are being sent to Teledyne Isotopes in Westwood, N. J. (not Nuclear Radiation Developments in Grand Island, N. Y.)

Our current program would continue to be reflected in Application dated October 27, 1978 and November 28, 1978, and letters dated September 10, 1980, October 17, 1980, and November 30, 1982. Actually, our current license includes all the statements and revisions for the above-listed dates.

B/S (2)

Enclosed is a check for $110 per section 170.31 (3L) of 10 CFR 170.

I trust this will be satisfactory, but feel free to contact me if there is any problem.

Sincerely,

Pete Del Boca
Radiation Safety Officer

PDB:cjm

Enc.

Fisher Scientific Company

Chemical Manufacturing Division
P.O. Box 375
1 Reagent Lane
Fair Lawn, New Jersey 07410
(201) 796-7100
Instruments, Apparatus, Furniture and Chemicals for Laboratories.

4251
#4251

November 28, 1978

U.S. Nuclear Regulatory Commission
License Management Branch
Division of Fuel Cycle and Material Safety
Washington, D.C. 20555

Attention: Paul R. Guinn

Re: Mail Control No. 96595

Dear Mr. Guinn:

This is in reply to your letter of November 21, 1978 concerning our application for license renewal.

We have been dealing with Nuclear Radiation Developments Inc. for quite a few years and I contacted their Radiation Safety Officer (Harold L. Spector) for clarification. He informs me that NRD is authorized to perform this service on their license 2169-1811, expiring July 31, 1981, issued by New York State (an agreement state). Perhaps this is where the confusion arises. We do not have an actual document.

In regard to the conduct of wipe tests, we perform our own and do not use a commerical leak test kit. The only material used is a 5.5 cm diameter filter paper (Whatman #40), a sample of which is enclosed. The entrance is tested by rolling one section of the filter paper into a cone shape and inserting it into the fitting as far as possible, and then moving it about inside. The housing is tested by rubbing the paper on all exposed parts of the detector. The exit fitting is tested by rubbing only the external end and sides of the fitting with the paper, since the internal diameter is only 1 mm and therefore too small to get the paper inside. A separate paper is used for each of the three tests and each is then placed in a separate plastic bag with an identification tag, and sent to NRD.

COPIES SENT TO OFF. OF
INSPECTION AND ENFORCEMENT

ITEM # 6 B/6

4251

Finally, the detector cells are returned to the manufacturer (Hewlett-Packard) for cleaning and refoiling. No disassembly is performed by our personnel.

I trust the foregoing will be helpful.

Sincerely,

FISHER SCIENTIFIC COMPANY

Peter V. Del Boca
Radiation Safety Officer

PDB/loc

FOR
WIPE
TESTS

Fisher Scientific Company

Chemical Manufacturing Division
P.O. Box 375
1 Reagent Lane
Fair Lawn, New Jersey 07410
(201) 796-7100
Instruments, Apparatus, Furniture and Chemicals for Laboratories.

3934

October 27, 1978

U.S. Nuclear Regulatory Commission
Radioisotopes Licensing Branch
Division of Fuel Cycle and Material Safety
Washington, D.C. 20555

Attention: Paul R. Guinn

Re: Mail Control 96595
Renewal of Byproduct Material License 29-10211-01

Dear Mr. Guinn:

In reply to your correspondence, I am enclosing a completed application, in duplicate, for renewal of the above license. The license fee of $110 was sent to you with my original correspondence.

Thank you for your consideration of this request, and please inform me of any difficulty.

Sincerely,

FISHER SCIENTIFIC COMPANY

Peter Del Boca
Radiation Safety Officer

PDB/lp

Encl:

ITEM # 7

COPIES SENT TO OFF. OF INSPECTION AND ENFORCEMENT

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

UNITED STATES ATOMIC ENERGY COMMISSION

APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Form approved
Budget Bureau No. 38-R0027
3924

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.)*

Fisher Scientific Company
Chemical Manufacturing Division
1 Reagent Lane
Fair Lawn, New Jersey 07410
201-796-7100

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

Same as 1.(a), plus
Fisher Scientific Company
Bridgewater Packaging Facility
755 State Highway 202
Somerville, New Jersey 08876

2. DEPARTMENT TO USE BYPRODUCT MATERIAL

Research & Development
Analytical Laboratory
Quality Control

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

Renewal of #29-10211-01

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.)*

Please see attached.

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.)*

Peter V. Del Boca

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.)*	
A. Nickel 63	3 sealed sources, 15mCi each (Hewlett-Packard Model 18713A)	45 mCi
B. Nickel 63	1 sealed source, 2mCi (Hewlett-Packard Model 2-6195)	2 mCi
C. Cesium 137	1 sealed source, 20uCi (Intertechnique Model SL-30)	20 uCi
D. Hydrogen 3	Water	200 uCi
E. Hydrogen 3	Toluene	200 uCi
F. Carbon 14	Benzoic acid	10 uCi
G. Carbon 14	Toluene	50 uCi
H. Phosphorus 32	Phosphate	10 mCi
I Iodine 125	Iodinated protein	200 uCi
	(H. and I. have not been used at present)	

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.)*

A. 2 electron capture detectors in Hewlett-Packard Model 5700A gas chromatograph. 1 electron capture detector in Hewlett-Packard Model 5710A gas chromatograph.
B. electron capture detector in Hewlett-Packard Model 5750 gas chromatograph.
C. external standard integral to Intertechnique Model SL-30 liquid scintillation spectrometer.
D. E.,F.,G.,H standards for liquid scintillating counting
I. liquid scintillation and RIA

(Continued on reverse side)

TRAINING AND EXPERIENCE OF EACH INDIVIDUAL NAMED IN ITEM (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 attached		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
		See attached		

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)
Baird Atomic Model 420E survey meter	1	$\alpha\ \beta\ \gamma$	0.01-10	1.4	surveying and measuring
Victoreen Model 493 survey meter	1	$\alpha\ \beta\ \gamma$	0.01-10	1.4	

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

Calibrated yearly and checked before each use. Calibration performed by Teledyne Isotopes in Westwood, N.J. (The two survey meters are actually not required due to type of sealed sources and isotopes currently used.)

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

Film badges, changed monthly, are used for monitoring and are processed by Teledyne Isotopes in Westwood, N.J.

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) See attached

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.

See attached

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. See attached.

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 (sent 9/15/78)

Date October 27, 1978

Fisher Scientific Company
Applicant named in item 1

By: [signature]

Radiation Safety Officer
Title of certifying official

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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.

4.

Peter Del Boca	-	Radiation Safety Officer
Bernie Mc Sally	-	Director of R&D
Vincent Colarusso	-	Senior Research Chemist
Dan Koetters	-	Senior Research Chemist
Mike Semon	-	Laboratory Manager
Gin Ho	-	Analytical Laboratory Supervisor
Stan Isbell	-	Group Leader
Natvar Desai	-	Group Leader

8.

P. Del Boca		
a,b,c,d.	Fisher Scientific Company	2 months OJT
a,b,c,d.	CBR course, Aberdeen Proving Ground, MD and Ft. Benning, GA	20 hours formal
a,b,c,d.	LFE Corporation Radiation Training Seminar	10 hours formal
b,c.	College courses, Fordham University	10 hours formal
B. Mc Sally		
a,b,c,d.	Fisher Scientific Company (with consultant)	2 mos. OJT & forma
a,b,c,d.	N.B.C. Warefare/Damage Control course, Philadelphia, Pennsylvania	80 hours formal
b,c.	Basic Nuclear Physics Correspondence	40 hours formal
b,c.	College courses, Manhattan College	20 hours formal
V. Colarusso		
a,b,c,d.	Fisher Scientific Company (with consultant)	2 mos. OJT & form
a,b,c,d.	CBR course, Fort Gordon, Georgia and White Sands, NM	20 hours formal
b,c	College courses, Seton Hall University	10 hours formal
D. Koetters		
a,b,c,d.	Fisher Scientific Co (with consultant)	1 mo OJT & formal
b,c,d.	College courses, St. Mary's College	10 hours formal
M. Semon		
a,b,c,d.	Fisher Scientific Company (with Consultant)	2 mos OJT & forma
b,c.	College courses, Rutgers University	10 hours formal
G. Ho		
a,b,c,d.	Graduate Research Thesis, Brooklyn College	2 mos OJT & forma
a,b,c,d.	Fisher Scientific Company	2 weeks OJT
b,c.	College courses, Brooklyn College	20 hours formal
S. Isbell		
a,b,c,d.	Fisher Scientific Company	2 weeks OJT
a,b,c,d.	Presbyterian Hospital, N.Y.	20 hrs OJT & forr
b,c,d.	College courses, City College of N.Y.	20 hours formal
N. Desai		
a,b,c,d.	Fisher Scientific Company	2 weeks OJT
b,c.	College courses, India	1o hours formal

9. All individuals are college graduates and have had both the training specified in item 8 as well as a minimum of 5 years experience at Fisher Scientific Company. All have either used, supervised the use of, or directed projects involving electron capture detectors and/or scintillatio standards.

In addition, Mc Sally, Colarusso, and Koetters have co-authored a paper dealing with scintillation counting; Ho performed his Graduate Research Thesis on scintillation counting; Del Boca has written all the radiation safety procedures currently in affect at Fisher.

13. This company maintains a series of laboratory rooms for R&D and routine chemical analysis. Two areas have been set aside in which the sealed sources are utilized. Traffic in and out of these rooms is kept to a minimum and only persons named in item 4 will work with, or supervise work with, the byproduct material mentioned in this application.

At present, because of the scintillation isotopes used, no plans have been formulated for any remote handling, equipment storage tanks, shieldin or fume hoods normally associated with byproduct material. Fume hoods are presently available in our laboratories if the need arises.

14. The electron capture detectors are tested for leakage every six months by the Radiation Safety Officer. The test involves wiping the entrance, housing, and exit of the sealed source and sending the wipes to Nuclear Radiation Developments, Inc., in Grand Island, N.Y. for analysis. Appropriate servicing, maintenance, and repair is performed by the equipment manufacturer.

The individual user is familiar through his training and experience on the handling of scintillation standards. In addition, the exact procedures to be followed during testing are detained in our Analytical Methods Sheets. When byproduct material is not being used it is kept in a locked fireproof storage file.

15. Commercial waste disposal service is performed by Teledyne Isotopes in Westwood, N.J.