

MATERIALS LICENSE

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		3. License Number	20-27837-02
1. Thermo Environmental Instruments, Inc.		4. Expiration Date	January 31, 2002
2. 8 West Forge Parkway Franklin, Massachusetts 02038		5. Docket or Reference No.	030-34286
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. Carbon 14	A. Sealed sources (Amersham Model No. WA1186, DuPont Model No. NES-8200 or Radium-Chemie Model No. WA1186)	A. Not to exceed 100 microcuries per source and 25 millicuries total	
9. Authorized use			
A. Storage only.			

CONDITIONS

10. Licensed material may be stored only at the licensee's facilities at 8 West Forge Parkway, Franklin, Massachusetts.
11. A. Licensed material shall be stored under the supervision of A. Michael Blaney and William J. Lincourt.
B. The Radiation Safety Officer for this license is A. Michael Blaney.
12. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory.
13. This license does not authorize commercial distribution of licensed material.



MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

20-27837-02

Docket or Reference Number

030-34286

(Continued)

CONDITIONS

14. 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 November 13, 1996
B. Fax dated December 24, 1996

JAN - 2 1997

Date _____

For the U.S. Nuclear Regulatory Commission
Original Signed By:

John R. McGrath

By _____

Nuclear Materials Safety Branch
Region I

King of Prussia, Pennsylvania 19406

JAN - 2 1997

License No. 20-27837-02
Docket No. 030-34286
Control No. 123899

A. Michael Blaney
Vice President-Operations
Thermo Environmental Instruments, Inc.
8 West Forge Parkway
Franklin, MA 02038

Dear Mr. Blaney:

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers. Please note that the license authorized storage only. When the sealed source and device registry sheet is issued by our headquarters office, please submit a letter requesting an amendment to your license to authorized manufacture, distribution and servicing originally requested in your application dated November 13, 1996. State that this is a continuance of Control No. 123899 and no fee will be charged for the amendment.

Please be advised that your license expires at the end of the day, in the month, and year stated in the license. Until your license is terminated, you must conduct your program involving byproduct materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers; Inspections," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Not possess and use materials authorized in Items 6, 7, and 8, on the license until:
 - a. you have constructed the facilities and obtained the equipment described in the license application and supporting documentation; and
 - b. you have notified the U.S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406 in writing, that activities authorized by the license will be initiated.

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3. Notify NRC, in writing, within 30 days:
 - a. when an authorized user or Radiation Safety Officer, permanently discontinues performance of duties under the license or has a name change; or
 - b. when the mailing address on the license changes (no fee is required if the location of byproduct material remains the same).
4. In accordance with 10 CFR 30.36(b) and/or license condition, notify NRC, promptly, in writing, and request termination of the license:
 - a. when you decide to terminate all activities involving materials authorized under the license; or
 - b. if you decide not to complete the facility, acquire equipment, or possess and use authorized material.
5. Request and obtain a license amendment before you:
 - a. permit anyone to work as an authorized user under the license;
 - b. change Radiation Safety Officer;
 - c. order byproduct material in excess of the amount, or radionuclide, or form different than authorized on the license;
 - d. add or change the areas of use, or address or addresses of use identified in the license application or on the license; or
 - e. change ownership of your organization.
6. Submit a complete renewal application with proper fee or termination request at least 30 days before the expiration date of your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of byproduct material after your license expires is a violation of NRC regulations. A license will not normally be renewed, except on a case-by-case basis, in instances where licensed material has never been possessed or used.

In addition, please note that NRC Form 313 requires the applicant, by his/her signature, to verify that the applicant understands that all statements contained in the application are true and correct to the best of the applicant's knowledge. The signatory for the application should be the licensee or a certifying official of the licensee rather than the Radiation Safety Officer or a consultant.

A. Michael Blaney
Thermo Environmental Instruments, Inc.

-3-

You will be periodically inspected by the NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation, or imposition of a civil penalty, or an order suspending, modifying or revoking your license as specified in the "General Statement of Policy and Procedure for NRC Enforcement Actions," (Enforcement Policy), NUREG 1600.

Since serious consequences to employees and the public can result from failure to comply with NRC requirements, prompt and vigorous enforcement action will be taken when dealing with licensees who do not achieve the necessary meticulous attention to detail and the high standard of compliance which NRC expects of its licensees.

Thank you for your cooperation.

Sincerely,

Original Signed By:
John R. McGrath

John R. McGrath
Senior Health Physicist
Division of Nuclear Materials Safety

License No. 20-27837-02
Docket No. 030-34286
Control No. 123899

Enclosures:

1. License No. 20-27837-02
2. 10 CFR Parts 2, 19, 20, 30, and 170
3. NRC Form 3 and 313

DOCUMENT NAME: R:\WPS\MLTR\L2027837.02

To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

OFFICE	DNMS/RI	N	DNMS/RI				
NAME	McGrath <i>grm</i>						
DATE	01/02/97	01/ /97	01/ /97	01/ /97	01/ /97		

OFFICIAL RECORD COPY

**Thermo Environmental
Instruments Inc.**8 West Forge Parkway
Franklin, MA 02038 USATel: 508-520-0430
Fax: 508-520-1460**FAX COVER SHEET**

Company: NUCLEAR REGULATORY COMMISSION 030-34286
To: JOHN McGRATH
Fax Number: 610-337-5269 / 5393
From: BILL LINCOLT
Date: 12/23/96
Subject: PLANT LAYOUT
Total pages including cover sheet: 23

John

- WISHING YOU A HAPPY AND HOLY CHRISTMAS HOLIDAY.
- HERE IS A COPY OF OUR PLANT LAYOUT.
 - STOCK ROOM IS MARKED IN HEAVY DASHED LINES.
 - STOCK ROOM EXPANDS AND CONTRACTS SLIGHTLY AS TO THE NEEDS OF THE MANUFACTURING DEPARTMENT.
 - STOCK ROOM HAS A 10 FOOT HIGH STEEL MESH FENCE AROUND IT ON 3 SIDES AND A SOLID WALL TO THE CEILING ON THE FOURTH SIDE.
 - "LOCK BOX" WILL BE INSTALLED AND KEPT WITHIN THE CONFINES OF THE STOCKROOM.
- IF YOU NEED ANY MORE INFORMATION, JUST ASK

Sincerely

Bill Lincolt

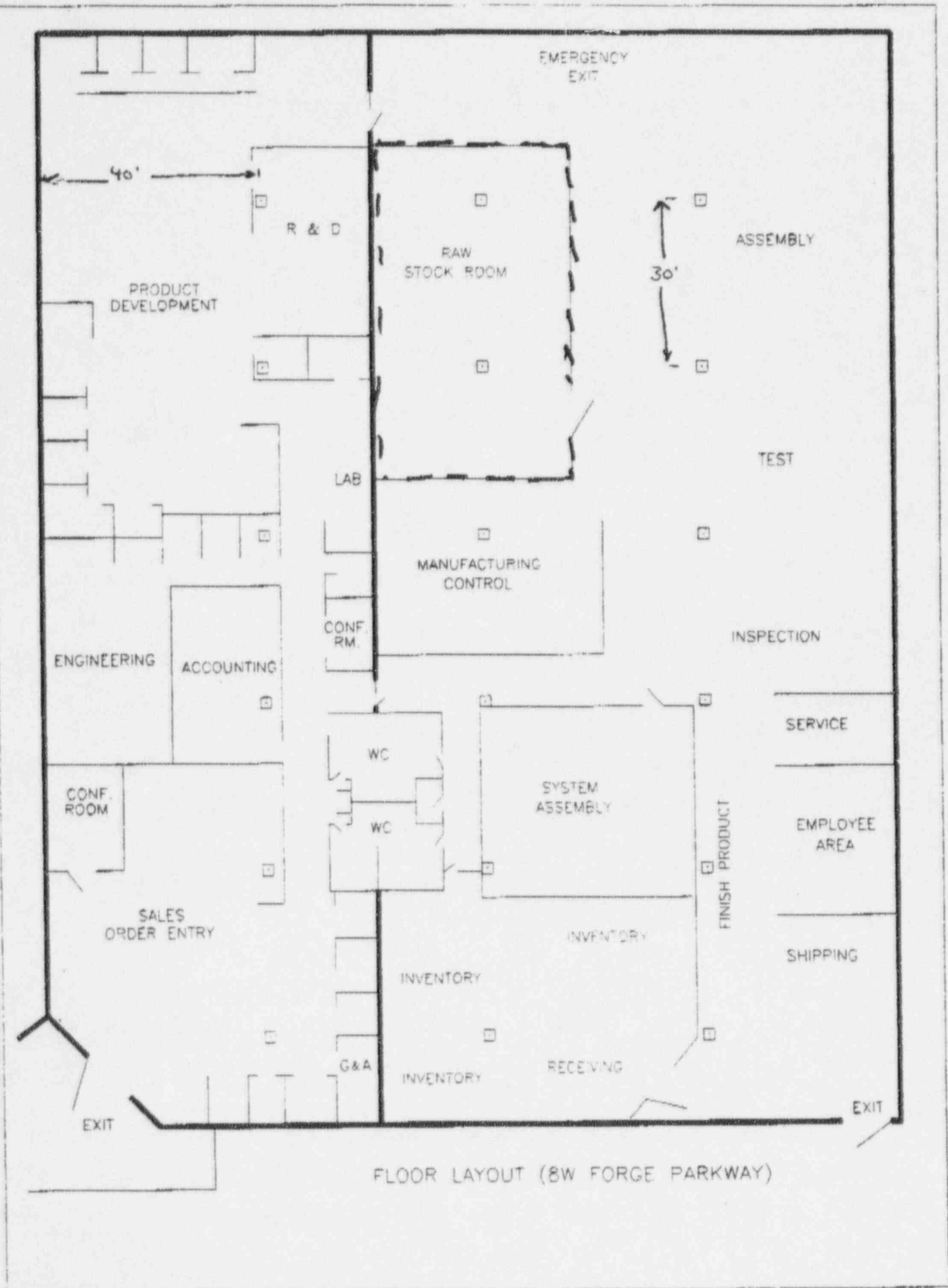
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FAX REC'D

DEC 24 1996

123899



TX CONFIRMATION REPORT **

AS OF DEC 23 '96 11:06 PAGE.003

THERMO ENVIRONMENTAL

DATE TIME
01 12/23 11:05TO/FROM
610 337 5269MODE
EC--SMIN/SEC PGS
00"49 02STATUS
OK

X John
I sent this earlier today. No problem
sending it again though.
Sincerely
Bill [Signature]

** TX CONFIRMATION REPORT **

AS OF DEC 23 '96 17:23 PAGE.21

THERMO ENVIRONMENTAL

DATE TIME
01 12/23 17:22TO/FROM
610 337 5269MODE
EC--SMIN/SEC PGS
01"03 03STATUS
OK

TELEPHONE CONVERSATION RECORD		Date: 12/13/96	Time: 1500
Mail Control No.: 123899		License No.: New	Docket No.: 030-34286
Person Called:		Organization: Thermo- Environmental Instruments	Telephone Number:
Person Calling: Bill Lincourt			
Subject: Application for License			
<p>Summary: Mr. Lincourt stated that Thermo-Environmental is anxious to get their license in order to receive the devices from the Colorado company they purchased. They have submitted an application for a license to manufacture and distribute to general and specific licensees. I stated that we could issue a license for possession only until such time as HQ completes the review for the sealed sources and devices to be distributed.</p>			
Action Required/Taken: Issue possession only license.			
Signature: <i>John R. McGloth</i>		Date: 12/13/96	

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TELEPHONE CONVERSATION RECORD	Date: 11/20/96	Time: 14:15
Mail Control Nos: 123903 and 123904 123899	License Nos.: Not assigned	Docket Nos.: Not assigned
Person Called: William Lincourt	Licensee: Thermo Environmental Instruments, Inc.	Telephone No.: (508) 540-0320
Person Calling: Steven Courtemanche/(610) 337-5075		
Subject: Application for manufacturing/distribution licenses		
<p><u>Summary:</u> On November 20, 1996 about 14:15, I contacted by Mr. Lincourt to question him about the application that their company had submitted to the NRC. He stated that their activities were to receive sealed sources and sealed source housings for installation into devices. Distribution would be made to both specific and general licensees. Mr. Lincourt stated that they have bought out a company in Colorado and will be moving the operation to Massachusetts once the licenses are issued. Because of discrepancies in the sealed source device registration sheets and the fact that Colorado never forwarded them to the NRC, Baggett's group in DC were already given applications for sealed source device reviews. The license reviewer should check with the progress of these reviews prior to issuing/working up a deficiency letter, if needed. Note also that some of the devices are for shipment to overseas customers only.</p>		
Action Required/Taken: Put in file for the license reviewer.		
Signature: <i>Steven R. Courtemanche</i>		Date: 11/20/96

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

APPLICATION FOR MATERIAL LICENSE

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-8 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.

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 SEC. ON
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 _____

☐

C. RENEWAL OF LICENSE NUMBER _____

2. NAME AND MAILING ADDRESS OF APPLICANT (include Zip code)

Thermo Environmental Instruments Inc.
8 West Forge Parkway
Franklin, MA 02038

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

Thermo Environmental Instruments Inc.
8 West Forge Parkway
Franklin, MA 02038

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

A. Michael Blaney

V.P. Operations

TELEPHONE NUMBER

508-520-0430

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. maximum 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

AMOUNT
ENCLOSED \$

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

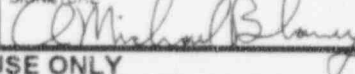
THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39 AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT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

A. Michael Blaney, V.P. Operations

SIGNATURE



DATE

Nov. 13, 1996

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
-------------	---------	--------------	-----------------	--------------	----------

\$

APPROVED BY

DATE

Thermo Environmental Instruments Inc.

8 West Forge Parkway
Franklin, MA 02038

(508) 520-0430
Fax: (508) 520-1460
Telex: 200205 THERMO UR

November 13, 1996

Mr. Stephen Baggett
Nuclear Materials Safety Section
Branch III
Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, Pennsylvania 19406-1415

Please accept the following application for Licenses for Isotope possession and distribution.

1. This is an application for a new license.
2. Name and address of applicant:

Thermo Environmental Instruments, Inc.
8 West Forge Parkway
Franklin, Massachusetts 02038

3. Addresses where licensed material will be used or possessed:

Thermo Environmental Instruments, Inc.
8 West Forge Parkway
Franklin, Massachusetts 02038

4. Name of person to be contacted about this application:

Mr. Michael Blaney
Vice President, Operations
Thermo Environmental Instruments, Inc.
8 West Forge Parkway
Franklin, Massachusetts 02038
Telephone #: 1-508-520-0430

5. Radioactive Material:

Device Registration:	Model #:	Isotope:	Activity:	Form:	Maximum Number Possessed
CO-663-S-102-S	WA1186	^{14}C	100 uCi	Sealed Source	250
	Amersham, Model No. WA1186, or Dupont, Model No. NES-8200, Radium-Chemie, Model No. I22A1186, all to hold the same specifications.				
CO-663-D-101-G		^{14}C	100 uCi	Device, Particle Counter	250
	49930/ 0003-19/34	^{85}Kr	50 mCi	Sealed Source	5
	FH 62 I-R	^{85}Kr	50 mCi	Device Particle Counter	5
	Dupont Model NER 8170	^{85}Kr	50 mCi	Sealed Source	5
	FH 62 I-N	^{85}Kr	30 mCi	Device Particle Counter	5

6. Purposes for which Licensed Material will be used:

A. ^{14}C sealed sources may be used in the manufacture, storage, installation, testing, repair, training, maintenance and, disposal and for training with of the Thermo Environmental Instruments, Inc. / Wedding and Associates Beta Gauge Automated Particle Sampler.

B. ^{85}Kr sealed sources will be present in devices manufactured by Thermo Eberline, GMBH. These will be tested for functionality at Thermo Environmental Instruments, Inc., facilities and distributed to customers outside of this country.

C. The licensee may be authorized to distribute the devices referred to in 6. A., to persons generally licensed to receive such material in accordance with Sections 10 CFR Part 32, and the Registry of Sealed Sources and Device Certifications # CO-663-S-102-S and # CO-663-D-101-G.

D. The Licensee may be authorized to possess the following devices: Thermo Eberline Model FH 62 I-R Particulate Monitor and Thermo Eberline Model FH 62 I-N Particulate Monitor and may be used in the storage, installation, testing, maintenance, distribution and for training with these devices.

7. Individuals Responsible For Radiation Safety:

RSO: Mr. Michael Blaney, see attached resume.
Assistant RSO: Mr. William J. Lincourt, see attached resume.

8. Training for individuals working in or frequenting restricted areas:

There will be no restricted areas except the inside of the Radioactive Materials Lock Box, which will be located in the stock room in the manufacturing area of the Franklin, Mass. facility. The RSO, Assistant RSO and the Particle Counter Product Supervisor will have the only keys to the Lock Box. Training for all personnel will be as follows:

RSO and Assistant RSO:	A minimum of one Seminar covering Radiation Safety, Health Physics, Nuclear Physics or related Administrative Issues per year.
Particle Counter Product Supervisor:	A minimum of one Seminar covering Radiation Safety or related topics per year.
Test Department Supervisor:	A minimum of one block of In-House Radiation Safety Training per year.
Employees Involved with Manufacture, Use, Testing, Packing or Shipping of Devices:	A minimum of one block of In-House Radiation Safety Training per year.

9. Facilities and Equipment:

Facilities and equipment will be maintained at Thermo Environmental Instruments, Inc., 8 West Forge Parkway, Franklin, Mass. 02038. The facility is housed in a 30,000 square foot, single level, section of a modern industrial building. The building is constructed of concrete block with a flat corrugated metal roof waterproofed with a layer of a rubber compound covered with stones. The facility is split between the manufacturing and support areas, manufacturing taking approximately 20,000 square feet, and support, the remaining 10,000 square feet. The manufacturing area has a concrete floor and a 15 foot ceiling throughout. The stockroom area has a steel mesh security fence 10 feet high surrounding it. Production and Test departments are open and accessible to all employees. The support area has, hung beneath a 15 foot ceiling, a 10 foot drop ceiling throughout. The facility is situated in a recently developed industrial park containing numerous other similar buildings.

CO-663-S-102-S sealed source detectors will be stored in a secure area of the stockroom. The Beta Gauge Particle Counting Instrument will be manufactured without the source material installed in the normal assembly section of the manufacturing area. The source material will be installed by trained test department personnel in the test department prior to the CO-663-D-101-G device being tested. Completed CO-663-D-101-G devices will be stored on shelves until shipped to customers.

The FH 62 I-R and FH 62 I-N devices will be kept in the following areas: conference rooms in the support area for the purpose of training, the systems assembly area of the production area for storage, installation, testing and training or permanently installed inside weatherproof shelters in the north parking area outside the building. Units kept outside will reside in the rear parking lot north of the physical building for the purpose of operational testing, prior to being shipped to customers outside of the U.S.A..

10. Radiation Safety Program:

See: Radiation Safety Manual.

11. There will be no waste generated. Sealed sources will not be manufactured here. All individual CO-663-S-102-S (^{14}C) sealed source detectors contain exempt quantities of radioactive material and can be disposed of in the normal trash or shipped back to the supplier.

All FH 62 I-R and FH 62 I-N (^{85}Kr) devices are purchased from Thermo Eberline, GMBH, will not be processed in any way in our facility and will be shipped promptly to customers. Problems with these devices will be shipped directly back to the manufacturer for resolution.

12. Per conversations with Mrs. Sandra Kimberly on 7/17/96, the following fees and licenses are necessary:

License Designation or Type	Fee:	Comments:
10 CFR Part 170.31 3B	\$1200	License to Possess ^{14}C , ^{85}Kr .
10 CFR Part 170.31 3J	\$1600	License to Distribute.
10 CFR Part 170.31 9A	\$3200	Safety Evaluation of Device.
Total	\$6000	

Training and Experience of Radiation Safety Officer and Assistant RSO:

Radiation Safety Officer:

A. Michael Blaney

Training:

Subject: General Related Information.

Type of training: Hours in Training: Dates and Locations of Training:

Degree _X_ B.S. Chemical Engineering Worcester Polytechnic Institution,
Worcester, Massachusetts, 1979

Subject: General Responsibility.

Type of training: Hours in Training: Dates and Locations of Training:

Formal Course ___
On the Job _X_ Engineering Manager, 1982 to present.
Seminar ___

Subject: General Responsibility.

Type of training: Hours in Training: Dates and Locations of Training:

Formal Course ___
On the Job _X_ 1 year Vice President, Operations, March 1995 to
present.
Seminar ___

Subject: General radiation safety and handling of radioactive materials.

Type of training: Hours in Training: Dates and Locations of Training:

Formal Course ___
On the ___
Seminar ___

Assistant Radiation Safety Officer:
William J. Lincourt

Training:

Subject: General Related Information.

Type of training:	Hours in Training:	Dates and Locations of Training:
Degree <u> X </u> B.S. Chemistry		Norwich University, Northfield, Vermont, graduated 1974.

Subject: General radiation safety and handling of radioactive materials.

Type of training:	Hours in Training:	Dates and Locations of Training:
Formal Course <u> </u>		
On the Job <u> </u>		
Seminar <u> X </u>	4	1974, Gamma Diagnostic Labs, Attleboro Falls, Mass.

Subject: Use and safety Technecium 99m and Molybdenum 99.

Type of training:	Hours in Training:	Dates and Locations of Training:
Formal Course <u> </u>		
On the Job <u> X </u>	13 Months	1974-75, Gamma Diagnostic Labs, Attleboro Falls, Mass.
Seminar <u> </u>		

Subject: Use and safety Iodine 125. Supervisor, small production lab.

Type of training:	Hours in Training:	Dates and Locations of Training:
Formal Course <u> </u>		
On the Job <u> X </u>	17 Months	1976-77, Corning Medical, Medfield, Mass.
Seminar <u> </u>		

Subject: Graduate Level Nuclear Physics Course.

Type of training:	Hours in Training:	Dates and Locations of Training:
Formal Course <u> X </u>	1 Semester	Atomic and Nuclear Physics, 4 Credits, Rhode Island College, Providence, R.I., 1978.
On the Job <u> </u>		
Seminar <u> </u>		

Subject: Use and safety Tritium, (hydrogen 3)

Type of training: Hours in Training: Dates and Locations of Training:

Formal Course _____

On the Job X 4/1988 to present.

Assistant RSO at Thermo Environmental Instruments, Inc., from 6/1988 until NRC license terminated in 1995. Physically tested and performed service on tritium based electron capture detectors as appropriate. Maintained glove box and secure storage facilities for tritium foils and "loaded" detectors. Maintained records to present. Continued support by telephone for customers with EC detectors to present.

Seminar _____

Subject: Prepare application for new NRC license, Carbon 14, Krypton 85.

Type of training: Hours in Training: Dates and Locations of Training:

Formal Course _____

On the Job X

July 1996 to present. Prepare this license for formal submittal to NRC.

Seminar _____

Subject: General radiation safety and handling of radioactive materials.

Type of training: Hours in Training: Dates and Locations of Training:

Formal Course _____

On the Job _____

Seminar _____

Radiation Safety Manual

Thermo Environmental Instruments, Inc.

November 13, 1996

Outline:

- I. Overview: Mission Statement
- II. Personnel and Training Objectives
- III. Reception, Inspection and Storage of Sources
- IV. Installation of Sources in Completed Instruments and Final Testing
- V. Storage of Complete Instruments and Shipment to Customers
- VI. Definitions
- VII. Table of Contents

I. Overview: Mission Statement

Thermo Environmental Instruments, Inc., has established reasonable procedures for employees to follow in the care and handling of sealed sources, as described in the following document. Employee safety, training, responsibility and leadership are of primary importance. An effective Radiation Protection and ALARA Program should be a cooperative effort among all individuals involved in the operation of TEI. The responsibility for radiation safety and ALARA are the responsibility of all employees, from corporate management to the individuals performing the work. Each individual working with radioactive materials is required to adhere to established radiation protection and ALARA rules, regulations and concepts.

II. Personnel and Training Objectives

A. Personnel Identification:

As of the writing of this manual, during October, 1996, the following personnel will assume these required duties:

Radiation Safety Officer:	A. Michael Blaney
Assistant Radiation Safety Officer	William J. Lincourt
Test Department Supervisor	James Dunn
Particle Counter Product Supervisor	Kevin Flaherty

The following will be the duties of the assigned positions:

Radiation Safety Officer:

The RSO will assume responsibility for the overall operation of the handling of radioactive materials within the jurisdiction to Thermo Environmental Instruments, Inc. All major decisions and policies are the responsibility of the RSO.

Assistant Radiation Safety Officer:

The Assistant RSO will assume responsibility for all communications with Federal and State authorities, License maintenance and documentation. The Assistant RSO is responsible for providing assistance and answering questions about specific issues arising on the production floor concerning the handling of radioactive materials. The Assistant RSO is also responsible for keeping the RSO informed of any unusual or pertinent contingencies arising from the day-to-day handling of radioactive materials. The Assistant RSO is primarily responsible for training programs and their implementation.

Test Department Supervisor:

The Test Department Supervisor is the overall supervisor in charge of testing and quality control in the Test Department, and as such is in charge of the Particle Counter production line. The Test Department Supervisor must report any problems concerning any radioactive activities to the Assistant RSO or to the RSO if so required. The Test Department Supervisor must assume the responsibilities of the Particle Counter Product Supervisor in the event that the PCPS is not able to fulfill his duties.

Particle Counter Product Supervisor:

The Particle Counter Product Supervisor is responsible for the day-to-day running of the Particle Counter Production and Test personnel and operation. The PCPS is also responsible for the safety and training of the personnel involved, and will work closely with the Assistant RSO in this capacity.

B. Training:

Due to the level of radiation involved in the currently proposed operations, extensive training may not be necessary. However, it is reasonable that all personnel involved with the reception, storage, handling and shipping of radioactive materials be informed of the basic facts concerning radioactive materials, radiation safety and be given an ongoing resource to answer related questions.

The goal of the training involved will present a basic overview of the physical processes involved with radioactive decay and the safety issues involved. The intent is to create an understanding that radioactive decay is a predictable, well understood physical process whose adverse effects can be controlled by proper precautions.

Topics covered in the general training should include, but not be limited to: Definition of Ionizing Radiation; Alpha, Beta, Gamma Emission, and their properties; half life; Time, Distance, Shielding (TDS); Characteristics of ^{14}C and ^{85}Kr and safety procedures specific to our operation. An introduction to the TEI ALARA program, and the concept of ALARA will also be taught.

C. ALARA:

Worker protection in the United States is controlled under Federal and/or State regulations which establish exposure limits. Regardless of the quantitative limits incorporated in standards, pertinent regulations require that no radiation dose be permitted which is practical and reasonably feasible to avoid. This principle, known as the As Low As Reasonably Achievable or ALARA concept, is the cornerstone of contemporary radiation exposure reduction efforts.

ALARA involves both a philosophical approach to radiation protection and a defined set of technologies to minimize exposure at acceptable cost. ALARA is a moving target and as improved methods emerge or as radiation protection practices are further developed, lower exposures may be attained.

Thermo Environmental Instrument, Inc.'s policy is to control radiation exposures of personnel engaged in handling activities, from reception on the facilities of TEI, through storage, production, test, installation, training and shipment away from TEI to a customer or other destination. This policy is accomplished by controlling external and internal radiation hazards through implementing feasible engineering controls, work practices and administrative control measures. These include:

- a. Shielding or isolating the source radioactive material from exposed personnel.
- b. Designing tasks to minimize the duration personnel are potentially exposed and increase the distance of personnel from the source material.
- c. Wearing personal protective equipment and complying with decontamination procedures as well as good personal hygiene practices.

Real time measurement of personnel radiation exposures and work area radiation levels are not feasible with the isotopes we are currently using. Area swipe tests will be used to check for escaped radioactive material, and will be used to monitor safety levels. Results of these periodic tests will be used to implement a work practice philosophy and administrative controls. Records are maintained of these ALARA activities and routinely reviewed to identify any trends of higher than expected personnel radiation exposures associated with certain areas or tasks, so that additional or alternative control measures may be instituted.

Thermo Environmental
Instruments, Inc.
Radiation Safety
Organizational Flowchart

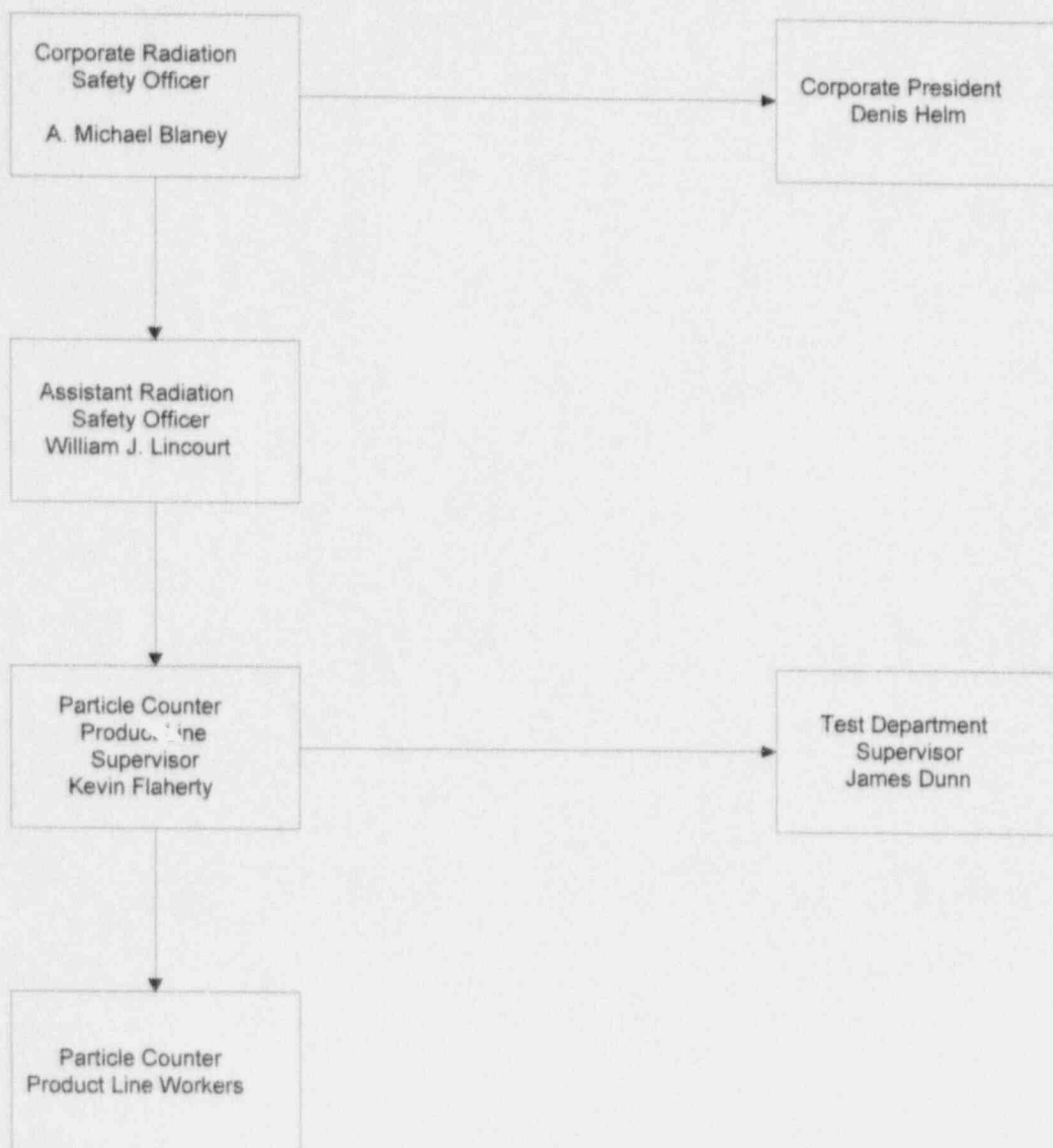


Figure 1

III. Reception, Inspection and Storage of Sources

A. Receiving Procedures: Shipping & Receiving Department

1. The Sources, as received from the Manufacturers, must be properly packaged in shipping containers meeting the requirements of the US Department of Transportation in accordance with 49 CFR parts 100-189.
2. Upon receipt, inspect the shipping container to ensure that seals are intact and that the container has not been damaged. 10 CFR Part 20.1906
3. If any questions arise concerning the containers immediately notify the radiation safety Officer (RSO) for further instructions.
4. If the containers are acceptable, the sources are to be immediately transferred as received in the shipping containers to a locked metal cabinet (see Figure 1) located in the designated area marked as required in 10 CFR Part 20.1801 to 20.1903.
 - a. The cabinet is to be marked with the required signs, labels and signals as set forth in 10 CFR Part 20.1902, and includes the NRC Form titled "NOTICE TO EMPLOYEES", with accompanying instructions relating to the handling, use, storage and disposal of radioactive materials, as recommended by the manufacturers.
 - b. Note: access to the key to the metal locked cabinet is limited to the RSO, Assistant RSO and Particle Counter Product Supervisor.

B. Care of the Sources: Inspection & Handling Procedures

1. Refer to Appendix I for technical information provided by the manufacturers pertaining to the ^{14}C sources.
2. Refer to Appendix II for technical information provided by the manufacturers pertaining to the ^{85}Kr sources.
3. Individuals working in or around the area containing the sources or those personnel involved directly in transporting the sources shall be informed that the sources should be:
 - a. Handled carefully, never touching any portion of the source except the metal holder to avoid breaking the seal, the laminate or scratching the laminate surface.
 - b. Each source, when opened from the manufacturer, should be carefully inspected. If the laminate appears to be damaged or scratched, contact the Assistant RSO.
 - c. If any concerns arise regarding the source, contact the Assistant RSO for further instructions.
 - d. The persons involved in handling the sources shall be informed of the appropriate procedures as set forth in Rules and Regulations Pertaining to Radiation Control to include, but not be limited to those sections in 10 CFR Part 19, titled "Notices, Instructions and Reports to Workers: Inspections and Investigations"; and 10 CFR Part 20, titled "Standards for Protection Against Radiation".

IV. Installation of Sources in Completed Instruments and Final Testing

A. Installation of the WA1186 Source into the Device:

1. Carefully remove the source from the Manufacturer's packaging, making sure to touch only the metal housing.
2. After following the inspection procedure as described previously, mount the source within the Device and epoxy (glue) into place.
 - a. Place Source into the Device so that it is permanently retained to preclude damage to either user or workers (see Figure 2).
3. The Model WA1186 radioactive source is exempt from leak test requirements. See 10 CFR Part 20.1906 (b.).
4. Sources received that appear to have damaged packaging or that are visibly damaged in any way, are to be sent back to the original vendor. Repackage the damaged container if necessary for the safety of the carrier.
 - a. Make sure that the return shipment policy is followed, especially concerning specific regulatory instructions for the proper return of the material. Include shipping documents, labels and packaging material if needed.

B. Repair Provisions for Customers:

The Operations and Maintenance Manual for the Thermo Environmental Instruments, Inc., Wedding & Associates Beta Gauge Automated Particle Sampler clearly instructs the customer (general licensee) to contact Thermo Environmental Instruments, Inc., regarding problems with the device. If return of the device is deemed necessary, authorization for such a return shall be granted by Thermo Environmental Instruments, Inc. and responsibility for the device shall be assumed by Thermo Environmental Instruments, Inc., and is to include:

1. Providing a return authorization number for the transportation of the device.
2. Arranging appropriate transportation of the device from the customer's facility to Thermo Environmental Instruments, Inc.

If it is deemed necessary to return the source to the original manufacturer, the procedures outlined in the previous paragraph apply. Note: The Model WA1186, using ^{14}C has a half-life of 5730 years; therefore there will be no need to dispose of it for reasons associated with a short half-life.

V. Storage of Complete Instruments and Shipment to Customers

- A. Completed instruments are to be stored on secure shelves or other secure place in the manufacturing area of the facility until shipped to customers or removed to the "systems" area for installation in a rack-mounted or shelter type "system." Thermo Eberline instruments may remain in their original shipping containers if these containers are deemed appropriate. Also see 10 CFR Part 20.1906 (b.).
- B. Shipment of completed instruments to customers, whether as a single unit, within the context of an order for several similar or dissimilar instruments or mounted in a rack-mounted or shelter based "system" will be properly packaged in shipping containers meeting the requirements of the US Department of Transportation in accordance with 49 CFR parts 100-189.

VI. Definitions

Agreement State	All states are encouraged to run their own nuclear regulation programs. When a State sets up its own program, and this program is deemed acceptable by the Federally run NRC, this State is now independent of, but accountable to, the Federal NRC and is called an "Agreement State."	
ALARA	As Low As Reasonably Achievable, pertaining to risk of exposure to ionizing radiation. This is everyone's responsibility.	
10 CFR	The section of the "Code of Federal Regulations" pertaining to radiation handling and safety.	
	10 CFR Part 19	Notices, Instructions and Reports to Workers: Inspections and Investigations.
	10 CFR Part 20	Standards for Protection Against Radiation.
	10 CFR Part 20.1003	Definitions. Refer to this source for a more comprehensive listing of pertinent terms.
	10 CFR Part 20.1904	Addresses labelling of sources.
	10 CFR Part 30.14	Defines exempt quantities of source material.
	10 CFR Part 30.33	Requirements for issuance of specific licenses.
	10 CFR Part 30.41	Regulates transfer of byproduct material.
	10 CFR Part 30.70	Schedule defines exempt quantities of known isotopes.
	10 CFR Part 31.5	Defines general licenses for certain measuring devices.
	10 CFR Part 31.12	Maintenance of records.
	10 CFR Part 32.14	States what must be recorded in license application.
	10 CFR Part 32.18	States what must be recorded in a Manufacture and distribution License application.
	10 CFR Part 32.20	Maintenance of records.
	10 CFR Part 32.51	Must give a copy of our license to everyone we sell a generally licensable device to.
	10 CFR Part 71	Packaging and Transport of Radioactive Material.

***** Still need the following references:**

Exemption from swipe testing.

Exemption from leak testing requirements.

DOE Department of Energy.

DOT Department of Transportation.

Manufacturer There are currently three external vendors or "Manufacturers" that produce the five "Sources" utilized in the instruments used by Thermo Environmental Instruments, Inc. These are Dupont, Amersham and Radium Chemie.

NRC The Nuclear Regulatory Commission is the regulatory agency in the U. S. government dealing primarily with radiation issues.

OSHA Occupational Safety and Health Association.

RSO Radiation Safety Officer. Person in charge of and responsible for implementation of safety programs on a company level. This person is often an officer of the company, and has a more technically experienced **Assistant RSO** to implement policies and procedures.

Sealed Source When the "source" of the radiation is permanently sealed inside a durable, leak-proof container, usually for safety reasons, the source is considered "sealed." Special considerations are made by regulatory agencies for "sealed sources." These considerations are usually lower level, thereby less expensive, licenses.

Source The actual radioactive part, or "source" of the radiation. There are four "Sources" utilized at Thermo Environmental Instruments, Inc., two of which are identical, produced by different outside manufacturers. The two identical "Sources" are used as pure Beta radiation emitters in the W&A Beta Gauge (The "Device"). The other two are used as pure Beta emitters in the Thermo Eberline Particulate Monitors, Model #'s FH 62 I-R and FH 62 I-N.

Wedding & Associates A company, whose assets were acquired in September, 1996 by Thermo Environmental Instruments, Inc., which manufactured particle counter instruments based on the attenuation of Beta radiation by dust particles.

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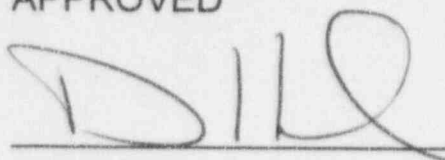
Figures:

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	Miscellaneous Specification Sheets and drawings pertinent to Thermo Eberline and Thermo Environmental Particle Counting Instruments.	14, etc.

Thermo Environmental Instruments, Inc.
Standard Procedures Manual

Corporate Radiation Protection Program

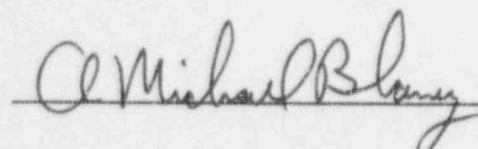
APPROVED



President

11-13-86

Date



Corporate Radiation Safety Officer

Nov. 13, 1996

Date

REVISION RECORD FORM:

Revision No.:

0

Pages Affected:

Entire Manual

Date Entered:

November 13, 1996

Entered By:

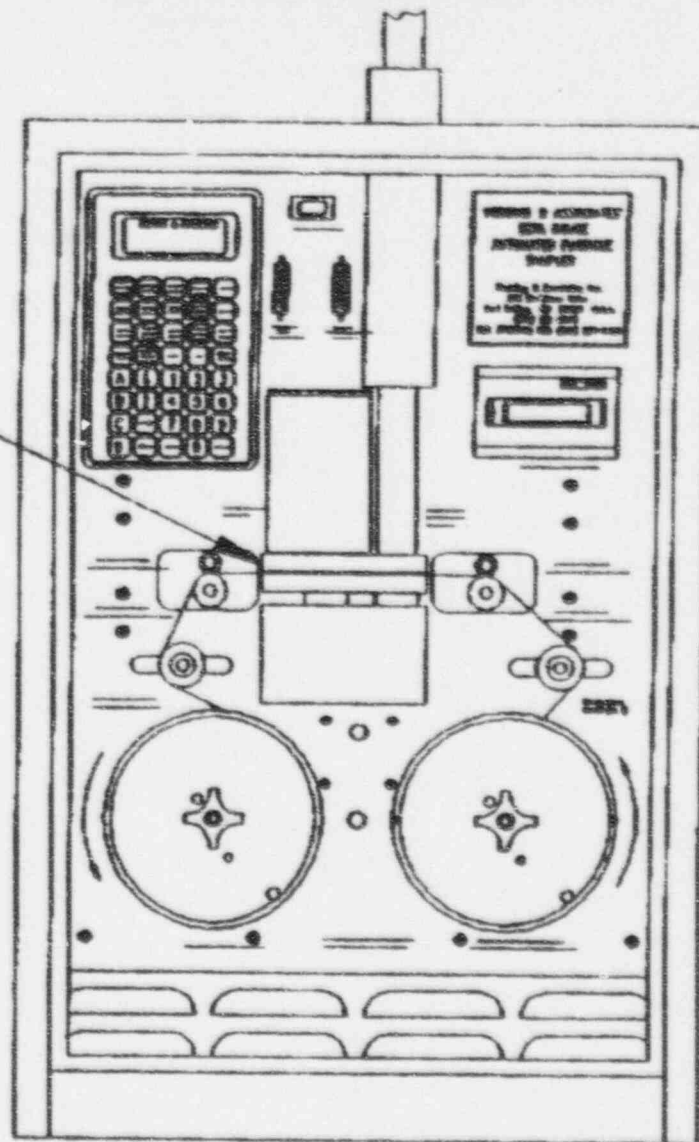
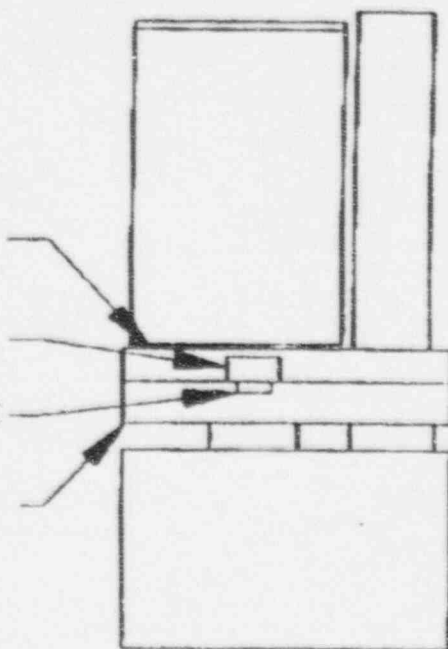
William J. Lincourt

SOLID ALUMINUM HOUSING

V&A BETA DETECTOR

V&A 1186 SOURCE

SOLID ALUMINUM HOUSING



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OF 4 PAGE

DRAWN:

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NAME

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APPROVED:

11-88

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MODEL WA1186 SERIES C-14 SOURCE
DEVICE MOUNTING

SCALE

NTS

MAX 3.7MBq(100uCi) C-14

MATERIAL:

ALUMINUM/STAINLESS

DRAWING #

1186-103

WEDDING & ASSOCIATES, INC.
209 CHRISTMAN DRIVE
FORT COLLINS, CO 80501

CARBON-14

TECHNICAL INFORMATION

PHYSICAL DATA

Maximum Beta Energy: 0.156 MeV (100%) ⁽¹⁾

Maximum Range of Beta in Air: about 22 cm (8.6") ⁽²⁾

Half-life: 5,730 y.

OCCUPATIONAL LIMITS

Maximum Permissible Air Concentration (based on forty-hour working week)
= 4×10^8 $\mu\text{Ci/ml}$ (150 kBq/m^3) ⁽²⁾

Quarterly Inhalation Intake Limit = 2.5 mCi (93 MBq) ⁽³⁾

DOSIMETRY

Millicurie quantities of ^{14}C do not present a significant external exposure hazard because the low energy betas emitted barely penetrate the horny outer skin layer. The critical organ for uptake of many ^{14}C labeled carbonates is the bone. ⁽⁵⁾ The critical organ for uptake of many other ^{14}C labeled compounds is the fat. ⁽⁴⁾ Most ^{14}C labeled compounds are rapidly metabolized and the residue is exhaled as $^{14}\text{CO}_2$. Some compounds and their metabolites are eliminated via the urine. Biological half-lives vary from a few minutes to 35 days - ten days being a conservative value for most compounds. ⁽⁵⁾

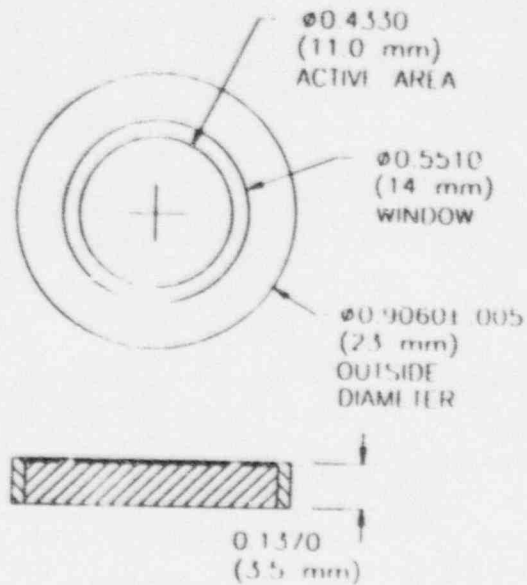
PRECAUTIONS

Designate area for handling ^{14}C and clearly label all containers.

Prohibit smoking, eating and drinking in the room where ^{14}C is handled.

REFERENCES

- (1) Kocher, David C., Radioactive Decay Data Tables (Springfield: National Technical Information Service) 1981. DOE/TIC-11026
- (2) Kaplon, Irving, Nuclear Physics, New York: Addison-Wesley, 1954
- (3) 10 CFR 20 "Standards for Protection Against Radiation"
- (4) Recommendations of the International Commission On Radiological Protection. (ICRP Publication 2, Pergamon Press, London, 1959)
- (5) Recommendations of the International Commission On Radiological Protection. (ICRP Publication 10, Pergamon Press, London, 1968)



NOTES:

- 1 THE HOUSING MATERIAL IS TO BE BLACK ANODIZED AL.
- 2 THE WINDOW IS TO BE COVERED BY AL COATED MYLAR ($\leq 90\text{mg/cm}^2$).
- 3 THE BINDING MATERIAL RETAINING THE SOURCE MATERIAL SHALL CONFORM TO RC TRIFC AG TYPE 2/96-90.
- 4 THE LABEL SHALL CONTAIN THE FOLLOWING DATA:
 - A. MAXIMUM ACTIVITY = 3.700 MBq (100 μCi)
 - B. SERIAL NUMBER
 - C. CONTROL DOCUMENT NUMBER
- 5 THE SOURCE SHALL SUPPLY BETA RAY OUTPUT AT A LEVEL OF 155% -0% + 25% OF THE AMERSHAM REFERENCE SOURCE.
- 6 THE SOURCE SHALL CONFORM TO ALL REQUIRED SPECIFICATIONS BY THE WEDDING & ASSOCIATES, INC. RADIOACTIVE LICENCE.

WEDDING & ASSOCIATES, INC.
209 CHRISTMAN DRIVE
FORT COLLINS, CO 80524
(970) 221-0678
FAX - (970) 221-0400

DRAWING TITLE: 14C SOURCE BETA GAUGE				DRAWN BY TLJ	
FILE SCALE: 1:1	DRAWING SCALE: NFS	NUMBER/UNIT 1	DRAWING DATE: 5 JUNE 1998		
TOLERANCE ± 0.10 ± 1" (UNLESS OTHERWISE SPECIFIED)		APPROVAL DATE		INITIALS	
ENGINEERING CHANGE RECORD			REVIEW RECORD		
NO.	DATE	INITIALS	DATE	INITIALS (2) REQ	
PART NO.: 122A1186			MATERIAL: NA		

1/2/97

DIVISION OF ACCOUNTING AND FINANCE REQUEST FOR REFUND TO EMPLOYEE/VENDOR

THE EMPLOYEE/VENDOR IDENTIFIED BELOW HAS OVERPAID THE NUCLEAR REGULATORY COMMISSION FOR GOODS AND/OR SERVICES PROVIDED AND IS DUE A REFUND

EMPLOYEE/VENDOR/PAYEE CODE: _____

NAME: Thermo Environmental Instruments, Inc.

ADDRESS: ATTN: A. Michael Blaney

ADDRESS: 8 West Forge Parkway

CITY: Franklin STATE: MA ZIP: 02038

TRANS CODE: PX

TRANS TYPE: _____ FUND: _____ JOB CODE: _____ AMOUNT: \$100.00

TRANS TYPE: IR FUND: R1435 JOB CODE: INTR AMOUNT: _____

TRANS TYPE: IR FUND: R1099 JOB CODE: ADCH AMOUNT: _____

TRANS TYPE: IR FUND: R1099 JOB CODE: FINE AMOUNT: _____

TOTAL REFUND AMOUNT: \$100.00

COMMENTS: Lic App Fee Refund/CR 13813

(limit comments to 40 characters, including spaces)

PREPARED BY: Sandra Kimberley DATE: 12/30/96

AUTHORIZED BY: Glenn Jackson DATE: 1/2/97

ORIGINAL INV. NO: _____ DATE PAID: _____ AMOUNT: _____

REFUND ENTERED INTO COLLECT BY: _____

REFUND DETERMINED BY: _____ DATE: _____

Refunded under Control 123899

PLEASE ATTACH APPROPRIATE SUPPORTING DOCUMENTATION

BETWEEN:

```

: Program Code: 03214
: Status Code: 3
: Fee Category: _____
: Exp. Date: 0
: Fee Comments: _____
: Decom Fin Assur Req'd: ____
: .....

```

A. REGION

Applicant/Licensee: THERMO ENVIRONMENTAL INSTRUMENTS
Received Date: 961114
Docket No: 3034286
Control No.: 123899
License No.:
Action Type: New License

Amount: \$6000.00
Check No.: 13813

Signed Rebecca J. Brown
Date 11/27/96

1. Fee Category and Amount: 3B 3N ^{\$}1200 + ^{\$}1900

Amendment _____
Renewal _____
License _____

3. OTHER _____

Signed _____
Date 12/30/46

Log Dec. 14
Remitter See also
Check No. 13863 46500 See also
Amount \$1200 \$1900 Ref
Fee Category 3B 3N
Type of Fee APP
Date Check Rec'd 12/30/90
Date Complied 12/30/90
By SH

o 123903
Dec 96 15540
del #100

Note:
(Per Region I - this
license will be
issued as poss. first.
Then 2nd part lic. will
be full authorization and will
be considered a continuation of 123899 for
fee purposes.) H

7:57