



10 Sonar Drive  
Woburn, MA 01801  
Telephone (781) 729-9450  
Fax (781) 729-9547

June 15, 2012

Office of Federal & State Materials and  
Environmental Management Programs  
Division of Materials Safety and State Agreements  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

License No. 20-13270-02E  
Program Code: 03251

Attention: To whom it may concern,

Subject: Renewal request of Distribution License

Please find enclosed Herley New England's application for Radioactive Material Distribution License number 20-13270-02E with attachments, amendments and letters. Herley New England's Radiation Safety Program has remained unchanged since the last renewal in October 2001.

Enclosed are copies of Herley New England's Massachusetts Materials License dated February 2011 with associated backup and Material Transfer Report from May 2012.

If there are any questions regarding this application, attachments, letters or other reference materials, please call me at (781) 729-9450, Ex. 274.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Peter E. McGondel', is written over the typed name.

Peter E. McGondel  
Radiation Safety Officer

CC: MW

## Subjects Items 5 and 6

### **Item 5; Section a, b and c:**

- |                          |               |                             |
|--------------------------|---------------|-----------------------------|
| 1. Hydrogen-3 (any type) | Electron Tube | 15mCurries per device       |
| 2. Promethium-147        | Electron Tube | 30 $\mu$ Curries per device |
| 3. Cobalt-60             | Electron Tube | 1 $\mu$ Curries per device  |

### **Item 6:**

Materials 1 Through 3 are to be used for the manufacturing of electron tubes and for the distribution or transfer to persons authorized to receive the licensed material pursuant to the terms and conditions of a specific license issued by the Nuclear Regulatory Commission or an Agreement State.

### **Items 7 thru 11:**

Herley New England presently utilizes the services of Mr. William Lorenzen, MS and MRCS Inc. for training of individuals and support of the RSO for executing all internal requirements to maintain a healthy and safe environment. As described in Herley New England's Radiation Safety Program Procedure P-503, Mr. Lorenzen performs the yearly safety review of the facility and individual refresher training. Mr. Lorenzen also provides the required yearly Radiological Safety Report for the state of Massachusetts. MRCS Inc. provides Herley New England with weekly facility surveys and bi-weekly bio's which include facility stack samplings. In support of procedure P-503, all associated documents are included in this application.

Resumes of the RSO's at Herley New England are enclosed. Also enclosed are copies of Herley New England's Material's License, Material Transfer Report and the Radiological Safety Review for the state of Massachusetts.

A copy of one of Herley New England's latest devices that contain Tritium in the form of gas is illustrated in drawing 40475, the MD-202X005G PreTR Assembly. This assembly is part of the MD-202X005G Receiver Protector as shown in Herley New England's outline drawing 40038. This device is used in the Fire Control Radar APG-68, which is used in the F-16 fighter jet.

(05-2012)  
10 CFR 30, 32, 33,  
34, 35, 36, 39, and 40

## APPLICATION FOR MATERIALS LICENSE

Estimated burden per response to comply with this mandatory collection request: 4.3 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. Send comments regarding burden estimate to the Information Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

**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:

OFFICE OF FEDERAL & STATE MATERIALS AND  
ENVIRONMENTAL MANAGEMENT PROGRAMS  
DIVISION OF MATERIALS SAFETY AND STATE AGREEMENTS  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001

## ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

## IF YOU ARE LOCATED IN:

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA,  
KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY,  
NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH  
CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,

## SEND APPLICATIONS TO:

LICENSING ASSISTANCE TEAM  
DIVISION OF NUCLEAR MATERIALS SAFETY  
U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
2100 RENAISSANCE BOULEVARD, SUITE 100  
KING OF PRUSSIA, PA 19406-2713

## IF YOU ARE LOCATED IN:

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

MATERIALS LICENSING BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, IL 60532-4352

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS,  
LOUISIANA, MISSISSIPPI, 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 BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
1600 E. LAMAR BOULEVARD  
ARLINGTON, TX 76011-4511

**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 20-13270-02E

## 2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)

Herley New England  
10 Sonar Drive  
Woburn, Massachusetts  
01801

## 3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

10 Sonar drive  
Woburn, Massachusetts  
01801

## 4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Peter E McGondel R.S.O.

## TELEPHONE NUMBER

729-9450

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. LICENSE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY 03251

AMOUNT  
ENCLOSED \$ 11,400.00

## 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

John McClay General Manager

SIGNATURE

*John McClay*

DATE

6/8/12

## FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

NRC FORM 253 (9-96)		U.S. NUCLEAR REGULATORY COMMISSION		DATE OF REQUEST 6-19-12		CONTROL NUMBER	
<b>MESSENGER/COURIER RECEIPT</b>							
TO: Div. of Materials Safety & State Agreements				OFFICE FSME	BUILDING TWN	ROOM NUMBER 8E24	
FROM: Herley - New England				OFFICE ADM	BUILDING DWFN	ROOM NUMBER PI-C10	
DESCRIPTION USPS Certified Package 7010-2780-00005810-1512				<b>MESSENGER/COURIER SIGNATURE</b>			
				MESSENGER/COURIER MEC		DATE RECEIVED 6-19	
						TIME RECEIVED 2 PM	
				MESSENGER/COURIER		DATE RECEIVED	
						TIME RECEIVED	
				<b>RECIPIENT'S SIGNATURE</b>			
RECIPIENT		[Signature]		DATE RECEIVED 6/21/12		TIME RECEIVED 2:48	
<b>SENDER:</b> 1. Complete "DATE OF REQUEST," "TO:," "FROM:," and unclassified "DESCRIPTION" blocks. 2. Obtain MESSENGER/COURIER signature, date received, and time received in first blocks provided. 3. Retain "SENDER'S SUSPENSE COPY."				<b>MESSENGER/COURIER:</b> 1. Deliver package to recipient or next messenger/courier enroute to addressee. 2. Obtain MESSENGER/COURIER or RECIPIENT signature, date received, and time received in the appropriate blocks provided.		<b>RECIPIENT:</b> 1. Provide signature, date received, and time received in the appropriate blocks. 2. Retain RECIPIENT'S COPY. 3. Return original to messenger/courier immediately, who will return it to the sender.	

NRC FORM 253 (9-96)

**RECIPIENT'S COPY**