

June 3, 2013

US Nuclear Regulatory Commission  
TWFN-8 E24  
11545 Rockville Pike  
Rockville, MD 20852-2738  
Attn: Margie Kotzalas, Branch Chief, FSME, DMSSA, LB

**Re: PerkinElmer, Inc. – Amendment to Radioactive Material Exempt Distribution License #20-00320-14E**

Dear Ms. Kotzalas,

PerkinElmer is amending its Radioactive Material License authorizing the distribution of exempt sources to include an additional address (location) from which exempt sources will be distributed. In addition, a number of exempt sources are no longer distributed by PerkinElmer. These sources were originally included in the listing for the requested amendment dated August 9, 2012.

Lastly, this amendment is requesting the authorization to distribute a Ba-133 ( 1.0  $\mu$ Ci) exempt source that is used with the Tri-Carb Model 3180XX series liquid scintillation counter. This exempt source and other exempt sources identified in the previous amendment request dated August 9, 2012 are identified in a current Use and Possession amendment request with the State of Massachusetts for License #56-0683.

Enclosed is the NRC Form 313 with applicable attachment.

This amendment was developed in accordance with 10 CFR 30, Rules of General Applicability to Domestic Licensing of Byproduct Material, and the additional guidance provided in NUREG-1556 Vol. 8, Program-Specific Guidance About Exempt Distribution Licenses.

We request that you invoice us for payment of the amendment fee.

Please let us know if you have any questions, concerns, or items that we need to address.

Sincerely,



William R. Hoey  
RSO and Radiation Protection Manager  
PerkinElmer  
617 350-9068

(03-2013)  
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. \*AMENDMENTS/RENEWALS THAT INCREASE THE SCOPE OF THE EXISTING LICENSE TO A NEW OR HIGHER FEE CATEGORY WILL REQUIRE A FEE.**

**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 20-0032-14E
- C. RENEWAL OF LICENSE NUMBER \_\_\_\_\_

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

PerkinElmer, Inc.  
549 Albany Street  
Boston, MA 02118

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

120 and 130 East Dedham Street, Boston MA;  
Buildings 250, 325 and 351 Treble Cove Road, Billerica, MA; and  
5 Parkwood Drive, Hopkinton, MA

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

William R. Hoey

BUSINESS TELEPHONE NUMBER  
(617) 350-9068

BUSINESS CELLULAR TELEPHONE NUMBER  
(508) 577-0480

BUSINESS EMAIL ADDRESS  
bill.hoey@perkinelmer.com

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.

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

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

10. RADIATION SAFETY PROGRAM.

9. FACILITIES AND EQUIPMENT.

11. WASTE MANAGEMENT.

12. LICENSE FEES (Fees required only for new applications, with few exceptions\*) (See 10 CFR 170 and Section 170.31)

FEE CATEGORY

3I

AMOUNT ENCLOSED \$

0.00

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

William R. Hoey, CHP - RSO & RP mgr.

SIGNATURE

*William R. Hoey*

DATE

6/3/13

**FOR NRC USE ONLY**

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



**Summary of Amendment**

The PerkinElmer Inc. is registered legal entity requesting an amendment to the existing License # 20-0032-14E. This amendment covers three minor changes.

1. Addition of Hopkinton address as another location that will distribute exempt sources (noted in item #3 on NRC Form 313).
2. There are exempt sources identified in the original license amendment request dated August 9, 2012 that will no longer be distributed by PerkinElmer.
3. PerkinElmer is adding an additional exempt Ba-133 source that is installed as a reference standard in the liquid scintillation counter model Tri-Carb 3180XX series.

**Item 5 - Radioactive Material**

Exempt Sources (identified by part number) that will no longer be distributed by PerkinElmer under this Exempt Distribution license;

5080325	5082057	5082551
5080425	5082457	6018505
5080625	5082557	6018508
5082425	5080251	6018512
5082525	5080351	
5080257	5080451	
5080357	5080651	
5080457	5081251	
5080657	5081551	
5081257	5081651	
5081557	5082051	
5081657	5082451	

In addition, the following exempt source is being added to the list of exempt sources that

RADIOACTIVE MATERIAL				
Part #	Radionuclide	Chemical and/or Physical Form	Description	Maximum Activity per Source (µci)
6020022	Ba-133	Solid SS pellet	Reference standard installed in Tri-Carb LSC Model 3180XX series	1.0

**Item 6 – Purpose(s) For Which Licensed Material will be used.**

The exempt sources identified in the original NRC license amendment for License # 20-0032-14E, dated 8/9/2012; will be received and stored at the Hopkinton facility under a specific possession license issued by the State of Massachusetts (#56-0683, amended). That specific license is currently being amended to include the radionuclides and quantities associated with the exempt source distribution. A copy of that license will be supplied to the NRC when issued by the State, and prior to the issuance of this E-License amendment.

Exempt sources associated with liquid scintillation counting equipment initial setup, reference and calibration will be received from the Singapore or the Boston PerkinElmer manufacturing facility under the State of Massachusetts specific possession license #56-0683. The exempt sources will then be distributed under this exempt distribution license to persons exempt under 10 CFR Part 32. Records and processes will be maintained to ensure that source kits/sources manufactured by the PerkinElmer Boston facility; shipped to Singapore for equipment setup and subsequently transferred back to the U.S. for distribution from the Hopkinton facility are the same product as described in the original distribution license application and amendments.



PerkinElmer™  
life sciences.

PerkinElmer Life Sciences  
549 Albany Street  
Boston, MA 02118



7008 1300 0001 4236 6229



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U.S. POSTAGE  
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JUN 03, 2013  
RMOUNT  
\$5.97  
00101178-06

U.S. NRC

TWEN-8 E24

11545 Rockville Pike

Rockville, MD 20852-2738

ATTN: Margie Kotzalas  
Branch Chief, F50NE, DMSSA, LB

POSTAGE  
NECESSARY  
IF MAILED  
IN THE  
UNITED STATES