NRC FORM 313 **U.S. NUCLEAR REGULATORY COMMISSION**
(09-11-2024)
10 CFR 30, 32, 33, 34, 35, 36, 37, 39, and 40

APPLICATION FOR MATERIALS LICENSE

APPROVED BY OMB: NO. 3150-0120 **EXPIRES: 07/31/2026**

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 FOIA, Library, and Information Collections Branch (T-6 A10M), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by email to Infocollects.Resource@nrc.gov, and the OMB Reviewer at: OMB Office of Information and Regulatory Affairs, (3150-0120), Attn: Desk Officer for the Nuclear Regulatory Commission, 725 17th Street NW, Washington, DC 20503. The NRC may not conduct or sponsor, and a person is not required to respond to, a collection of information unless the document requesting or requiring the collection displays a currently valid OMB control number.

INSTRUCTIONS: SEE THE CURRENT VOLUMES OF THE NUREG-1556 TECHNICAL REPORT SERIES ("CONSOLIDATED GUIDANCE ABOUT MATERIALS LICENSES") FOR DETAILED INSTRUCTIONS FOR COMPLETING THIS FORM: http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/. SEND ONE COPY OF THE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

MATERIALS SAFETY AND TRIBAL LIAISON BRANCH
DIVISION OF MATERIALS SAFETY, SECURITY, STATE AND TRIBAL PROGRAMS
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:

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 RADIOLOGICAL SAFETY AND SECURITY
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
475 ALLENDALE ROAD, SUITE 102
KING OF PRUSSIA, PA 19406-1415
R1DRSSMail.Resource@nrc.gov
*Note: The preferred method to submit NRC Form 313 is email. Any other document (e.g., financial assurance documents) should be sent via mail.

IF YOU ARE LOCATED IN:

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

MATERIALS LICENSING BRANCH
DIVISION OF RADIOLOGICAL SAFETY AND SECURITY
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
2056 WESTINGS AVENUE, SUITE 400
NAPERVILLE, IL 60563-2657
R3-DRSSMAIL.Resource@nrc.gov
*Note: The preferred method to submit NRC Form 313 is email. Any other document (e.g., financial assurance documents) should be sent via mail.

IF YOU ARE LOCATED IN:

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:

MATERIALS LICENSING BRANCH
DIVISION OF RADIOLOGICAL SAFETY AND SECURITY
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
1600 E. LAMAR BOULEVARD
ARLINGTON, TX 76011-4511
R4licensing@nrc.gov
*Note: The preferred method to submit NRC Form 313 is email. Any other document (e.g., financial assurance documents) should be sent via mail.

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 32-14048-04
- ☐ C. RENEWAL OF LICENSE NUMBER

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

U.S. Environmental Protection Agency
109 T.W. Alexander Drive, MD-D343-02
Research Traingle park, NC 27711

3. LIST ADDRESS AND/OR TEMPORARY JOB SITE (TJS) ADDRESS, WHERE LICENSED MATERIALS WILL BE USED OR POSSESSED

104 Mason Farm Road, Chapel Hill, NC 27514
109 T.W. Alexander Drive, RTP, NC 27713
4930 Page Road, Durham, NC 27703
Buildings No. 106 and 108, 111 T.W. Alexander Dr, RTP, NC 27713

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Sara Solis

BUSINESS TELEPHONE NUMBER	BUSINESS CELLULAR TELEPHONE NUMBER
919-541-1322	984-888-6647

BUSINESS E-MAIL ADDRESS
solis.sara@epa.gov

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 APPLICABLE **LICENSING GUIDANCE**.

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 AND 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 (Fees required only for new applications, with few exceptions*)
(See 10 CFR 170 and Section 170.31)
***Amendments/Renewals that increase the scope of the existing license to a new or higher fee category will require a fee.**

FEE CATEGORY [ ] AMOUNT ENCLOSED $ [ ]

PER THE DEBT COLLECTION IMPROVEMENT ACT OF 1996 (PUBLIC LAW 104-134), YOU ARE REQUIRED TO PROVIDE YOUR TAXPAYER IDENTIFICATION NUMBER. PROVIDE THIS INFORMATION BY COMPLETING NRC FORM 531: https://www.nrc.gov/reading-rm/doc-collections/forms/nrc531info.html. FAX THE COMPLETED NRC FORM 531 TO (301) 415-6725.

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, 37, 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
Sara Solis, RSO, Office of Research and Development	SARA SOLIS Digitally signed by SARA SOLIS Date: 2025.06.09 18:36:10 -04'00'	

FOR NRC USE ONLY

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF RESEARCH AND DEVELOPMENT
Office of Resource Management
RTP, NC 27711

June 11, 2025

Licensing Assistance Team
Division of Radiological Safety and Security
U.S. Nuclear Regulatory Commission, Region I
475 Allendale Road, Suite
King of Prussia, PA 19406-1415

Re: Amendment Request – Removal of Licensed Location from NRC License No. 32-14048-04

Dear Sir or Madam:

The United States Environmental Protection Agency is requesting an amendment of its NRC license (32-14048-04) for facilities located in Research Triangle Park, North Carolina. We request to remove the following location under conditions from our license:

104 Mason Farm Road,
Chapel Hill, North Carolina, 27514

This request is being made because all the sealed sources previously authorized for use at the above location have been removed and transferred to our licensed location at 109 T.W. Alexander Dr., Research Triangle Park, North Carolina, 27713 in accordance with NRC regulations, and the EPA has ceased operations at the Chapel Hill location. The leak test has been completed to ensure that the site meets the criteria specified in 10 CFR 20.1402.

Enclosed with this letter are the following supporting documents:

A copy of the leak test for the sealed sources transferred
Documentation of sealed source removal and disposition

Please amend our license to remove the above address from our list of authorized use locations. If additional information is required to process this request, please do not hesitate to contact me at 919-541-1322 or solis.sara@epa.gov.

Thank you for your attention to this matter.

Sincerely,

SARA SOLIS
Digitally signed by SARA SOLIS
Date: 2025.06.11 12:52:58 -04'00'

Sara Solis, COSH, GSP
Radiation Safety Officer
Research Triangle Park, NC
U.S. Environmental Protection Agency

UNC | CAMPUS SAFETY
Environment, Health and Safety

June 9, 2025

To Whom it May Concern:

Per email correspondence from Sara Solis, ORD-RTP SHEM, U.S. Environmental Protection Agency (US EPA) on June 6, 2025, four generally licensed krypton-85 sources were removed from the U.S. EPA Human Studies Facility at 104 Mason Farm Road on the University of North Carolina at Chapel Hill's campus and returned to the U.S. EPA Research Triangle Park (US EPA RTP) campus.

Below is a list of the generally licensed sources that were returned to US EPA RTP.

Kr-85 TSI 3082 – EPA Decal C13693
Kr-85 TSI 3082 – EPA Decal C16727
Kr-85 TSI 3082 – EPA Decal C13692
Kr-85 TSI 3082 – EPA Decal B36722

Should you have any questions, please contact me at the Radiation Safety Office at UNC Chapel Hill, at 919-962-5713.

Sincerely,

Jonathan D. Moore, MS, CHP
Academic Radiation Safety Officer

Assay Definition-

Assay Description:
Protocol Set-up for counting 3 regions to determine gross contamination status

Assay Type: CPM
Report Name: Full Print Out for File
Output Data Path: C:\Packard\Tricarb\Results\C13693_5.30.25\Beta Guage Wipe Test\20250530_1340
Raw Results Path: C:\Packard\Tricarb\Results\C13693_5.30.25\Beta Guage Wipe Test\20250530_1340\20250530_1340.results
Assay File Name: C:\Packard\TriCarb\Assays\Beta Guage Wipe Test.lsa

Count Conditions-

Nuclide: Surveys
   Quench Indicator: tSIE/AEC
   External Std Terminator (sec): 0.5 2s%
   Pre-Count Delay (min): 0.00
Quench Set: n/a
Count Time (min): 5.00
Count Mode: Normal
Assay Count Cycles: 1 Repeat Sample Count: 1
#Vials/Sample: 1 Calculate % Reference: Off

Background Subtract: Off
Low CPM Threshold: Off
2 Sigma % Terminator: Off

Regions	LL	UL
A	2.0	18.6
B	18.6	156.0
C	157.0	2000.0

SARA SOLIS

Digitally signed by SARA SOLIS
Date: 2025.06.09 15:42:57 -04'00'

Count Corrections-

Static Controller: On Luminescence Correction: n/a
Colored Samples: n/a Heterogeneity Monitor: n/a
Coincidence Time (nsec): 18 Delay Before Burst (nsec): 75

Half Life-

Half Life Correction: Off

Regions	Half Life	Units	Reference Date	Reference Time
A				
B				
C				

Cycle 1 Results

PID	S#	CPMA	CPMB	CPMC	CHA-dpm	CHB-dpm	CHC-dpm	tSIE	MESSAGES
16	1	4	6	4	14	15	5	499.86	
16	2	7	5	3	23	12	3	497.83	
Missing vial 3.									
16	4	6	5	3	21	12	3	503.46	Blank

Assay Definition-

Assay Description:
Protocol Set-up for counting 3 regions to determine gross contamination status

Assay Type: CPM
Report Name: Full Print Out for File
Output Data Path: C:\Packard\Tricarb\Results\C13692_5.30.25\Beta Guage Wipe Test\20250530_1239
Raw Results Path: C:\Packard\Tricarb\Results\C13692_5.30.25\Beta Guage Wipe Test\20250530_1239\20250530_1239.results
Assay File Name: C:\Packard\TriCarb\Assays\Beta Guage Wipe Test.lsa

Count Conditions-

Nuclide: Surveys
  Quench Indicator: tSIE/AEC
  External Std Terminator (sec): 0.5 2s%
  Pre-Count Delay (min): 0.00
Quench Set: n/a
Count Time (min): 5.00
Count Mode: Normal
Assay Count Cycles: 1 Repeat Sample Count: 1
#Vials/Sample: 1 Calculate % Reference: Off

Background Subtract: Off
Low CPM Threshold: Off
2 Sigma % Terminator: Off

Regions	LL	UL
A	2.0	18.6
B	18.6	156.0
C	157.0	2000.0

Count Corrections-

Static Controller: On Luminescence Correction: n/a
Colored Samples: n/a Heterogeneity Monitor: n/a
Coincidence Time (nsec): 18 Delay Before Burst (nsec): 75

Half Life-

Half Life Correction: Off

Regions	Half Life	Units	Reference Date	Reference Time
A				
B				
C				

Cycle 1 Results

PID	S#	CPMA	CPMB	CPMC	CHA-dpm	CHB-dpm	CHC-dpm	tSIE	MESSAGES
14	1	6	4	5	20	9	5	507.71	
14	2	4	6	2	14	15	3	518.10	
Missing vial 3.									
14	4	4	5	4	13	14	5	531.91	Blank

Assay Definition-

Assay Description:
Protocol Set-up for counting 3 regions to determine gross contamination status

Assay Type: CPM
Report Name: Full Print Out for File
Output Data Path: C:\Packard\Tricarb\Results\B36722_5.30.25\Beta Guage Wipe Test\20250530_1300
Raw Results Path: C:\Packard\Tricarb\Results\B36722_5.30.25\Beta Guage Wipe Test\20250530_1300\20250530_1300.results
Assay File Name: C:\Packard\TriCarb\Assays\Beta Guage Wipe Test.lsa

Count Conditions-

Nuclide: Surveys
  Quench Indicator: tSIE/AEC
  External Std Terminator (sec): 0.5 2s%
  Pre-Count Delay (min): 0.00
Quench Set: n/a
Count Time (min): 5.00
Count Mode: Normal
Assay Count Cycles: 1 Repeat Sample Count: 1
#Vials/Sample: 1 Calculate % Reference: Off

Background Subtract: Off
Low CPM Threshold: Off
2 Sigma % Terminator: Off

Regions	LL	UL
A	2.0	18.6
B	18.6	156.0
C	157.0	2000.0

Count Corrections-

Static Controller: On Luminescence Correction: n/a
Colored Samples: n/a Heterogeneity Monitor: n/a
Coincidence Time (nsec): 18 Delay Before Burst (nsec): 75

Half Life-

Half Life Correction: Off

Regions	Half Life	Units	Reference Date	Reference Time
A				
B				
C				

Cycle 1 Results

PID	S#	CPMA	CPMB	CPMC	CHA-dpm	CHB-dpm	CHC-dpm	tSIE	MESSAGES
18	1	6	5	4	21	11	5	527.35	
18	2	5	6	2	16	14	2	519.78	
Missing vial 3.									
18	4	4	6	3	14	14	3	529.21	Blank

Assay Definition-

Assay Description:
Protocol Set-up for counting 3 regions to determine gross contamination status

Assay Type: CPM
Report Name: Full Print Out for File
Output Data Path: C:\Packard\Tricarb\Results\C16727_5.30.25\Beta Guage Wipe Test\20250530_1320
Raw Results Path: C:\Packard\Tricarb\Results\C16727_5.30.25\Beta Guage Wipe Test\20250530_1320\20250530_1320.results
Assay File Name: C:\Packard\TriCarb\Assays\Beta Guage Wipe Test.lsa

Count Conditions-

Nuclide: Surveys
  Quench Indicator: tSIE/AEC
  External Std Terminator (sec): 0.5 2s%
  Pre-Count Delay (min): 0.00
Quench Set: n/a
Count Time (min): 5.00
Count Mode: Normal
Assay Count Cycles: 1 Repeat Sample Count: 1
#Vials/Sample: 1 Calculate % Reference: Off

Background Subtract: Off
Low CPM Threshold: Off
2 Sigma % Terminator: Off

Regions	LL	UL
A	2.0	18.6
B	18.6	156.0
C	157.0	2000.0

Count Corrections-

Static Controller: On Luminescence Correction: n/a
Colored Samples: n/a Heterogeneity Monitor: n/a
Coincidence Time (nsec): 18 Delay Before Burst (nsec): 75

Half Life-

Half Life Correction: Off

Regions	Half Life	Units	Reference Date	Reference Time
A				
B				
C				

Cycle 1 Results

PID	S#	CPMA	CPMB	CPMC	CHA-dpm	CHB-dpm	CHC-dpm	tSIE	MESSAGES
2	1	6	5	4	19	14	4	531.81	
2	2	5	4	2	15	11	2	520.57	
Missing vial 3.									
2	4	4	5	3	14	11	4	528.52	Blank

Radionuclide Inventory Transfer Receipt Acknowledgement: Sealed Sources

Radiation Safety Office Use Only:	
Entered by: (Initials)	Date: MM/DD/YY
SS	06/09/25

Peter H. Kariher | **E343-04**

Source Custodian | USEPA/ERC/RTP, NC

Date Issued: 6/6/2025

Instrument Manufacturer and Model	EPA Property Number	RSO Number	Source Serial Number	Radionuclide	Source Activity (mCi)	Source Date MM-YY	Source Location
TSI-3082	C13692	2107	77A-0561	Kr-85	10	09-13	RTP H137A
TSI 3082	B36722	2109	77A-0559	Kr-85	10	09-13	RTP; H137A
TSI model 3082	C13693	2122	77A-0834	Kr-85	10	04-20	RTP; H137A
TSI Model 3082	C16727	2125	77A-1056	Kr-85	10	04-24	RTP; H137A

REMINDER: As the Source Custodian, you are personally responsible for the location of the source(s) at all times. Any relocation must be reported to the Radiation Safety Office in ADVANCE. Likewise, any transfers of responsibility/ownership of a source requires the permission of the Radiation Safety Office. Please see Section 6 of the Radiation Safety Manual {Rev. 07/2015} for further details.

Please update if necessary and sign this sheet and return to the Asst. RSO, Mail Code D343-02 within 10 days of issuance. Electronic submissions are acceptable.

Peter H. Kariher

Source Custodian Printed Name

Source Custodian Signature

6/9/2025

Date