

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, 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.

Licensee

1. Department of the Interior
U.S. Geological Survey
2. Alaska Science Center
1101 East Tudor Road
Anchorage, Alaska 99503

In accordance with application dated
September 20, 1996

3. License number 50-29001-01 is amended in
its entirety to read as follows:

4. Expiration date October 31, 2004

5. Docket or
Reference No. 030-31304

6. Byproduct, source, and/or
special nuclear material

- A. Phosphorus 32
- B. Phosphorus 33
- C. Sulfur 35

7. Chemical and/or physical
form

- A. Any
- B. Any
- C. Any

8. Maximum amount that licensee
may possess at any one time
under this license

- A. 5 millicuries
- B. 1 millicurie
- C. 3 millicuries

9. Authorized use

- A. through C. To be used for molecular genetics laboratory analyses.

10. Licensed material shall be used only at the licensee's facilities located at 1011 East Tudor Road, Anchorage, Alaska.

11. Licensed material shall be used by, or under the supervision of, Kim Scribner, Ph.D., George Sage, or John Pearse.

12. The Radiation Safety Officer for this license is Kim T. Scribner, Ph.D.

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

14. The licensee is authorized to hold radioactive material with a physical half-life of less than 90 days for decay-in-storage before disposal in ordinary trash provided:

- A. Radioactive waste to be disposed of in this manner shall be held for decay a minimum of 10 half-lives.

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MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

50-29001-01

Docket or Reference Number

030-31304

Amendment No. 6

- B. Before disposal as ordinary trash, byproduct material shall be surveyed at the container surface with the appropriate meter set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.
- C. A record of each disposal permitted under this License Condition shall be retained for three years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.
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 September 16, 1994
 - B. Letter dated October 11, 1994
 - C. Application dated October 17, 1994
 - D. Letter dated October 27, 1994
 - E. Letter dated January 16, 1995
 - F. Application dated September 20, 1996

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date OCT - 9 1996

By Beth A. Prange
Materials Branch
Region IV, WCFO
Walnut Creek, California 94596

(FOR LFMS USE)
INFORMATION FROM LTS

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

Program Code: 03620
Status Code: 0
Fee Category: EX 3M
Exp. Date: 20041031
Fee Comments: 170.11(A)(5)
Decom Fin Assur Req'd: N
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LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: INTERIOR, DEPARTMENT OF THE
Received Date: 960927
Docket No.: 3031304
Control No.: 572413
License No.: 50-29001-01
Action Type: Amendment

2. FEE ATTACHED

Amount: _____
Check No.: _____

3. COMMENTS

Signed _____
Date _____

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /_/)

1. Fee Category and Amount: _____

2. Correct Fee Paid. Application may be processed for:

Amendment _____
Renewal _____
License _____

3. OTHER

Signed _____
Date _____



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV

Walnut Creek Field Office
1450 Maria Lane
Walnut Creek, California 94596-5368

OCT - 9 1996

Department of the Interior
U.S. Geological Survey
Alaska Science Center
ATTN: Kim T. Scribner, Ph.D.
Radiation Safety Officer
1101 East Tudor Road
Anchorage, Alaska 99503

SUBJECT: LICENSE AMENDMENT

Please find enclosed License No. 50-29001-01. You should review this license carefully and be sure that you understand all conditions. If you have any questions, you may contact the reviewer who signed your license at (510) 975-0250.

NRC expects licensees to conduct their programs with meticulous attention to detail and a high standard of compliance. Because of the serious consequences to employees and the public which can result from failure to comply with NRC requirements, you must conduct your program involving radioactive 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: Inspection and Investigations," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Possess radioactive material only in the quantity and form indicated in your license.
3. Use radioactive material only for the purpose(s) indicated in your license.
4. Notify NRC in writing of any change in mailing address (no fee required if the location of radioactive material remains the same).
5. Request and obtain written NRC consent before transferring your license or any right thereunder, either voluntarily or involuntarily, directly or indirectly, through transfer of control of your license to any person or entity. A transfer of control of your license includes not only a total change of ownership, but also a change in the controlling interest in your company whether it is a corporation, partnership, or other entity. In addition, appropriate license amendments must be requested

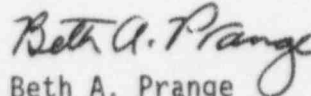
and obtained for any other planned changes in your facility or program that are contrary to your license or contrary to representations made in your license application, as well as supplemental correspondence thereto, which are incorporated into your license. A license fee may be charged for the amendments if you are not in a fee-exempt category.

6. Maintain in a single document decommissioning records that have been certified for completeness and accuracy listing all the following items applicable to the license:
 - Onsite areas designated or formerly designated as restricted areas as defined in 10 CFR 20.3(a)(14) or 20.1003.
 - Onsite areas, other than restricted areas, where radioactive materials in quantities greater than amounts listed in Appendix C to 10 CFR 20.1001-20.2401 have been used, possessed, or stored.
 - Onsite areas, other than restricted areas, where spills or other unusual occurrences involving the spread of contamination in and around the facility, equipment, or site have occurred that required reporting pursuant to 10 CFR 30.50(b)(1) or (b)(4), including areas where subsequent cleanup procedures have removed the contamination.
 - Specific locations and radionuclide contents of previous and current burial areas within the site, excluding radioactive material with half-lives of 10 days or less, depleted uranium used only for shielding or as penetrators in unused munitions, or sealed sources authorized for use at temporary job sites.
 - Location and description of all contaminated equipment involved in licensed operations that is to remain onsite after license termination.
7. Submit a complete renewal application with proper fee, or termination request at least 30 days before the expiration date on your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of radioactive material after your license expires is a violation of NRC regulations.
8. Request termination of your license if you plan to permanently discontinue activities involving radioactive material.

You will be periodically inspected by 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; 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), 60 FR 34381, June 30, 1995.

Thank you for your cooperation.

Sincerely,



Beth A. Prange
Sr. Health Physicist (Licensing)
Materials Branch

Docket: 030-31304
License: 50-29001-01
Control: 572413

Enclosures: As stated

Department of the Interior
Alaska Science Center

-4-

bcc:

Docket File
WCFO Inspection File
LFDCB, T-9 E10
State of AK (License Only)

DOCUMENT NAME: G:\beth\572413

To receive copy of document, indicate in box: "C" = Copy without enclosures "E" = Copy with enclosures "N" = No copy

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OFFICIAL RECORD COPY



IN REPLY REFER TO

United States Department of the Interior

NATIONAL BIOLOGICAL SERVICE

Alaska Science Center
1011 E. Tudor Road
Anchorage, Alaska 99503

September 20, 1996

Amendment

030-31304

50-29001-01

Ms. Beth A. Prange
Sr. Health Physicist
Nuclear Regulatory Commission, Region IV
Walnut Creek Field Office
1450 Maria Lane
Walnut Creek, CA 94596-5368

Dear Ms. Prange:

As per our phone conversation of 19 Sept., please find enclosed materials in support for our application for ammendment of our materials license (No. 50-29001-01). Enclosed is information pertaining to item #8 of the application materials (training for individuals working in or frequenting restricted areas). Specifically, our current license stipulates that "licensed material shall be used by, or under the supervision of, Kim Scribner, PhD, Judy Gust, or Ray Fields". Judy Gust and Ray Fields have both recently left our program and have been replaced by two additional personnel (George Sage and John Pearse). Both have considerable experience (detailed below) and skills in instrument calibration and use, survey and dosimetry methodology, and in the handling, storage, and disposal of ^{32}P and ^{35}S . I would ask that based on their backgrounds (see attached), they be added to our site license and that Fields and Gust be deleted. All other items on our license are current.

Please be advised that our agency, The National Biological Service will as of October 1, 1996 become incorporated into a new division within the U.S. Geological Survey. Our new agency title (as detailed on the application) is the Alaska Science Center, Biological Resources Division, U.S. Geological Survey.

Thank you in advance for your assistance.

Sincerely,

Kim Scribner
Radiation Safety Officer, NBS Alaska Science Center

572413

APPLICATION FOR MATERIAL LICENSE

U.S. NUCLEAR REGULATORY COMMISSION

IF YOU ARE LOCATED IN:
 ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:
 U.S. NUCLEAR REGULATORY COMMISSION, REGION I
 789 ROOSEVELT ROAD
 GLEN ELLYN, IL 60137

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO:
 U.S. NUCLEAR REGULATORY COMMISSION, REGION III
 611 RYAN PLAZA DRIVE, SUITE 1000
 ARLINGTON, TX 76011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:
 U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
 1450 MARIA LANE, SUITE 210
 WALNUT CREEK, CA 94596

U.S. NUCLEAR REGULATORY COMMISSION, REGION V
 1450 MARIA LANE, SUITE 210
 WALNUT CREEK, CA 94596

U.S. NUCLEAR REGULATORY COMMISSION, REGION II
 475 ALLENDALE ROAD
 KING OF PRUSSIA, PA 19406

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:
 U.S. NUCLEAR REGULATORY COMMISSION, REGION I
 101 MARIETTA STREET, SUITE 2800
 ATLANTA, GA 30323

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:
 U.S. NUCLEAR REGULATORY COMMISSION, REGION I
 475 ALLENDALE ROAD
 KING OF PRUSSIA, PA 19406

U.S. NUCLEAR REGULATORY COMMISSION, REGION II
 475 ALLENDALE ROAD
 KING OF PRUSSIA, PA 19406

U.S. NUCLEAR REGULATORY COMMISSION, REGION III
 611 RYAN PLAZA DRIVE, SUITE 1000
 ARLINGTON, TX 76011

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
 1450 MARIA LANE, SUITE 210
 WALNUT CREEK, CA 94596

U.S. NUCLEAR REGULATORY COMMISSION, REGION V
 1450 MARIA LANE, SUITE 210
 WALNUT CREEK, CA 94596

U.S. NUCLEAR REGULATORY COMMISSION, REGION VI
 1450 MARIA LANE, SUITE 210
 WALNUT CREEK, CA 94596

U.S. NUCLEAR REGULATORY COMMISSION, REGION VII
 1450 MARIA LANE, SUITE 210
 WALNUT CREEK, CA 94596

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION, REGION I
 IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTION

1. THIS IS AN APPLICATION FOR (Check appropriate item)
 A. NEW LICENSE
 B. AMENDMENT TO LICENSE NUMBER
 C. RENEWAL OF LICENSE NUMBER

2. ADDRESSES WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

3. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

4. 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

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

6. FACILITIES AND EQUIPMENT

7. SITE MANAGEMENT

8. CERTIFICATION (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF

9. U.S.C. SECTION 1001, ACT OF JUNE 26, 1948, 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION

10. TYPED/PRINTED NAME

11. TITLE

12. DATE

13. APPROVED BY

14. DATE

15. COMMENTS FOR NRC USE ONLY

16. COMMENTS FOR NRC USE ONLY

17. COMMENTS FOR NRC USE ONLY

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APPLICATION FOR MATERIAL LICENSE

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.

APPLICATIONS FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS
WASHINGTON, DC 20566

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:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I
NUCLEAR MATERIALS SAFETY SECTION B
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION II
NUCLEAR MATERIALS SAFETY SECTION
101 MARIETTA STREET, SUITE 2900
ATLANTA, GA 30323

IF YOU ARE LOCATED IN:

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION III
MATERIALS LICENSING SECTION
799 ROOSEVELT ROAD
GLEN ELLYN, IL 60137

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
MATERIAL RADIATION PROTECTION SECTION
611 RYAN PLAZA DRIVE, SUITE 1000
ARLINGTON, TX 76011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION V
NUCLEAR MATERIALS SAFETY SECTION
1460 MARIA LANE, SUITE 210
WALNUT CREEK, CA 94596

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 JURISDICTION.

1. THIS IS AN APPLICATION FOR (Check appropriate item)

☐

A. NEW LICENSE

☒

B. AMENDMENT TO LICENSE NUMBER 50-29001-01

☐

C. RENEWAL OF LICENSE NUMBER _____

2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code)

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

Alaska Science Center, Biological Resource Division
U.S. Geological Survey
1011 E. Tudor Rd.
Anchorage, AK 99503

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Kim T. Scribner

TELEPHONE NUMBER

907-786-3683

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 AND EXPERIENCE.

☒ 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, 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.

SIGNATURE--CERTIFYING OFFICER

TYPED/PRINTED NAME

TITLE

DATE

Kim T. Scribner

Kim T. Scribner

Research Geneticist

9-20-96

FOR NRC USE ONLY

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

Background profiles

Geneticist: John Pearse

B.S., Biology, Louis and Clark College, 1990
M.S. Biology, University of Idaho, 1996

2 years laboratory experience with the use of μCi quantities of ^{32}P and ^{35}S in molecular genetics research.

Training includes:

1. formal instruction by the laboratory radiation safety officers at the National Biological Services, Alaska Science Center and Department of Biology at the University of Idaho. Training at both facilities involved instruction in the handling, storage, disposal, and monitoring of licensed materials as well as dosimetry calculations involving long-term storage and disposal, and inventory record keeping.
2. participation in a 10 hr radiation safety training course at the University of Idaho

Present duties and demonstration of proficiency:

1. conducts daily, weekly, and monthly monitoring in the laboratory
2. assists in coordination and calculation of monthly inventory and disposal reporting
3. involved in ordering, receiving and reporting of radionuclide shipments
4. involved in use of licensed materials in laboratory analyses

Geneticist: George Sage

B.S., Zoology, University of Montana, 1985
M.S. Zoology, University of Montana, 1993

3 years experience with molecular genetic applications of the use of μCi quantities of ^{32}P .

Training includes:

1. formal instruction by the laboratory radiation safety officers at the National Biological Services Alaska Science Center and Department of Zoology at the University of Montana. Training at both facilities involved instruction in the handling, storage, disposal, and monitoring of licensed materials as well as dosimetry calculations involving long-term storage and disposal and inventory record keeping.
2. participation in 2-3 hr training courses at the University of Montana pertaining to safety issues involving the handling, monitoring, storage, and disposal of licensed materials.

Present duties and demonstration of proficiency:

1. conducts daily, weekly, and monthly monitoring in the laboratory
2. assists in coordination and calculation of monthly inventory and disposal reporting
3. involved in ordering, receiving and reporting of radionuclide shipments
4. involved in use of licensed materials in laboratory analyses