



OBLIGATIONS and INSTRUCTIONS:

- a. All persons planning to use Radioactive Materials at locations controlled by the University of Manitoba are required to apply and obtain an approved Internal Radioisotope Permit. For the purposes of this application, Radioactive Material shall be defined as activity for all isotopes equal to the equivalent of one Exemption Quantity or 1MBq, whichever is less. An Exemption Quantity is defined in the Nuclear Safety regulations (for list of common isotopes see the Radiation Safety Manual Appendix D, if your isotope is not listed, contact EHS).
b. Complete answers to the following questions are required to assess your application and implement appropriate safety procedures. Attach additional pages if required.
c. Return completed application to: Radiation Safety, Environmental Health and Safety, P310 Pathology Building, University of Manitoba, Winnipeg, Manitoba R3E 0W3
d. May be faxed to (204) 789-3906 or scan and email to radsafety@umanitoba.ca - hard copy to follow!
Phone: (204) 789-3654 or 789-3359 if you have questions

Is this an application for: Renewal of existing Permit OR New Internal Radioisotope Permit
Current or previously assigned Permit Number(s):
When do you anticipate requiring an approved Internal Radioisotope Permit?
January 1, 2018 OR new permit requested to be effective (Allow up to four weeks for processing)

1. Applicant/Responsible User (faculty member): Personnel Registration and Consent Form (PRCF) completed and attached
*If you are renewing your permit - EHS will have the PRCF on file.

Name: Department:

2. Laboratory Radiation Supervisor (LRS): All permits must have an LRS. Permit Holder will be LRS
OR Personnel Registration and Consent Form for LRS is completed and attached
*If you are renewing your permit with the same LRS - EHS will have the PRCF on file.

Name: Department:

3. Designated Worker(s): List all personnel who, in addition to the LRS, may be working with radioactive materials.
Personnel Registration and Consent Form for each person completed and attached
*If you are renewing your permit with the same workers - EHS will have the PRCF on file.

Attach additional sheets if required.

Table with 6 rows and 2 columns: Name, Department

4. Radioisotopes: List all isotopes that you are applying to be permitted to use or store. *List activities in MBq (1 mCi = 37 MBq).* This form is for **Open Source Permits** to allow the purchase, use and storage of radioactive materials in the form of a powder, liquid or gas. These sources are provided in a container designed to allow the removal or extraction of some or the entire radioactivity such as a vial, ampoule or bottle. The information supplied by the applicant will be used to access the level (based on CNS regulations). **The requested possession limit includes the maximum activity in storage and any stock or working solutions, samples and waste in the possession of the Permit Holder.**

To apply for a Sealed Source Permit use the *Radioisotope Permit Application Form – Sealed Source or Radiation Device* for radioactive materials that are encapsulated or encased in such a way that it is extremely unlikely to be absorbed into the body. Sealed Sources may be in the form of calibration sources, moisture density gauges, electron capture chromatographs, X-ray fluorescence equipment or Mossbauer spectroscopy sources.

| Radioisotope | Maximum activity in use at a single time | Maximum activity per vial/container | Total Maximum activity in storage | Requested Possession Limit | Approved Possession Limit (this column is for Safety Office use only) |
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Attach additional sheets if required.

5. ALL locations (Room & Building) where radioactive materials will be stored, used and/or manipulated:

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| Locations for both storage and use/manipulation: |
| Locations for storage only: |
| Locations for use/manipulation only: |

6. Intended Use of Radioactive Materials

a) Statement of Intended Use of radioisotopes (Describe the types of experiments, attach additional pages if required, please use “lay” terms for discipline-specific terms):

b) Biological Material Used with Radioactive Materials:

- There will be no radioactive, biologically hazardous waste generated, or
- Radioactive material will not be incorporated into animals, but radioactive, biologically hazardous waste generated (eg, tissue culture, cell lines). The waste generated will be disposed in accordance with RSP-3 (section 12) – ie. All radioactive / biological waste will be chemically disinfected (autoclaving not allowed), or
- There will be radioactive material incorporated into animals. I am aware that when completing the Animal Use Protocol Form – schedule 10, a corresponding ‘radiological biological waste approval’ (RBWA) is required and must be listed in the Approved Usage section of my Internal Radioisotope Permit. RBWA may take up to four weeks to process.
 - I do not need a RBWA in the next 6 months. I will amend my permit to correspond to my changing research needs.
 - I plan to use animals in the next six months: Based on this information below, radiation safety will contact me and work with the Biosafety Officer to create an appropriate RBWA.

List Species, weight of each animal and number of animals involved or attach existing RBWA:

7. Radiation Detection Equipment: (List all instruments that you have and any you might use (yours or borrowed) - YOU MUST demonstrate that you have access to appropriate instruments for contamination monitoring.

a) Liquid Scintillation, Gamma and Well Counters

| Make and Model of counter | Location (Room & Building) | EHS Use only EHS Serial # of counter |
|---------------------------|----------------------------|--------------------------------------|
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| | | |

b) Portable Contamination Meters

| Make & Model of meter | Make & Model of probe (s) | Location (Room & Building) | Ownership | EHS Use only - Calibrations Check Source | | |
|-----------------------|---------------------------|----------------------------|-----------|--|----------------|----------|
| | | | | Radioisotope | Activity, Date | Serial # |
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Declarations

We, the undersigned are aware that having a permit to use Radioisotopes requires cooperation with inspections by the Canadian Nuclear Safety Commission and that CNSC inspectors have the authority to issue anyone that violates the Nuclear Safety and Control Act, or the conditions of the Internal Radioisotope Permit, a personal fine at a minimum of \$300.

I, the nominated Laboratory Radiation Supervisor (LRS), accept the responsibilities to act as the designate of the applicant in accordance with the University of Manitoba, Radiation Safety Manual, RSP-2, Section 6.2.

Date: _____ Signature of nominated LRS: _____

I, the Applicant, warrant the statements contained herein to be true and agree that the radioisotopes supplied against this application shall be used for the purpose and in the manner authorized by the University of Manitoba Radiation Protection Committee. I hereby agree to comply with the rules and procedures outlined in the University of Manitoba "Radiation Safety Manual".

Date: _____ Signature of Applicant: _____

Department Head Approval for space: I, the supervisor of the Applicant, approve of the applied for activities including the use of the locations listed in Section 4) and I am aware that the cancellation of the Applicant's Internal Radioisotope Permit requires the completion of a **Radioisotope Permit Decommissioning Form** and decommissioning of these areas.

Department: _____ Name of Department Head: _____

Date: _____ Signature of Department Head: _____

Related notes:

Requests for amendment of the information contained in this application should be submitted in writing to EHS for subsequent approval by the Radiation Protection Committee.

Records required as outlined within the conditions listed on the Internal Radioisotope Permit and the Internal Radioisotope Permit itself are the property of the University of Manitoba and must be returned to Environmental Health and Safety upon request.

If the Permit Holder wishes to cancel a permit they are required to indicate such intent to Environmental Health and Safety as soon as possible, and submit a completed "Radioisotope Permit Decommissioning Form".