

5. USES

For each radionuclide requested in item 4 above, describe how it will be used, listing the estimated quantity of radionuclides to be used per experiment. Note any unique hazards such as high volatility, chemical reactivity or infectiousness and how they will be controlled. (Attach an additional sheet if necessary.)

a) Will radionuclides be administered to animals? yes no
 If yes, list IACUC protocol number(s) _____

6. RADIATION DETECTION & MEASUREMENT INSTRUMENTATION

List all portable survey instruments and β - γ counting equipment

Instrument Type	Manufacturer	Model Number	Serial Number	Detector Type*

***Portable Instruments Only**

7. RADIONUCLIDE USE AND WASTE PROJECTION

Complete the table below, projecting your average purchase/use of radionuclides for the next four quarters.

Radionuclide	Projected Amount Used per Quarter (mCi) *	Historical Amount Used Per Quarter **		Percent of Radionuclide Disposed in Waste Forms				
		(RSO USE ONLY)		Solid	Sink Disposal Soluble/dispersible liquids (See 7a)	Liquid Absorbed or Solidified	Scintillation Vials	Animal Carcasses/Tissues
		Purchased	Waste					

* Amount Used per quarter - Average activity ordered per calendar quarter in millicuries.

** Historical is average of past 4 quarters.

7a. INFORMATION REQUIRED FOR SINK DISPOSAL

By regulation, all radioactive materials disposed of to the sanitary sewer system must be soluble in water or biologically dispersible. List all liquid radioactive waste chemicals and compounds which are not soluble in water or biologically dispersible.

7b. IDENTIFICATION OF HAZARDOUS COMPONENTS IN WASTE

Identify any radioactive wastes which also contain infectious or pathogenic agents or a hazardous chemical. List the agent/radionuclide and indicate the volume/quantity of each such waste that you may generate per quarter.

8. PERSONNEL TRAINING

Title 10, Part 19, Section 19.12 of the Code of Federal Regulations requires that all personnel working with sources of ionizing radiation be trained in the procedures and precautions necessary to minimize radiation exposure.

The Radiation Safety Office provides a general lecture and demonstration session for training personnel in the safe use of radioisotopes. The University requires that individuals requesting authorization to use sources of ionizing radiation, as well as all persons who will work under this authorization, attend this session before approval can be granted.

The Authorized User is responsible for providing additional training and instruction in safe radiation practices, specific to the type of work being performed, to all personnel working under the authorization.

9. CONDITIONS WHICH MUST BE MET BY THE AUTHORIZED USER

- a) Regulations regarding the safe use of sources of ionizing radiation may be found in the Radiation Safety Committee policy manual and the Radiation Safety Training Manual. These may be found on the RSO website at www.radsafe.pitt.edu. The Authorized User agrees to abide by the letter and spirit of all applicable regulations as set forth. These include (but are not limited to) training of workers, providing for security of radioactive materials, inventory record keeping, reporting of spills, proper transfer of radioactive materials, laboratory surveys, proper waste disposal, and RSO pre-approval of orders/receipts.

- b) The Authorized User is responsible for notifying the Radiation Safety Office of any changes in this application, such as changes in personnel, laboratory location, laboratory renovations, radionuclide usage, etc.

Special Conditions Applicable to this Authorization (RSO USE ONLY)

Applicant's Signature: _____ Date: _____

10. REVIEW AND APPROVAL

A representative of the Radiation Safety Office has met with the applicant to review this application and has discussed the radiation protection requirements necessary for use of the radionuclides listed under Item 5. As part of this evaluation, the Radiation Safety Office representative has made a physical inspection of all proposed radionuclide laboratories.

RSO Representative: _____

Date: _____

Review by Health Physicist: _____

Review by the Executive Committee of the University's Radiation Safety Committee:

Signature

Date

Chairperson: _____

Vice Chairperson: _____

Radiation Safety Officer: _____

Management Representative: _____

This application, signed by the Executive Committee, is your authorization to possess and use radioactive materials as indicated.

Date of Approval _____

Date of Expiration _____

APPLICANT'S TRAINING AND EXPERIENCE WITH RADIONUCLIDES:

This page is to be completed by new applicants only.
It is not necessary for renewal purposes.

The University PA license requires applicants to have at least 40 hours of training and experience in the safe handling of radioactive materials, characteristics of ionizing radiation, units of radiation dose and quantities, radiation detection instrumentation, and biological hazards of exposure to radiation appropriate to the type and forms of radioactive material to be used.

Didactic Training

List any formal courses or lectures attended. List all training sessions in radiation protection & safety from previous institutions

Institution, Years (e.g., Yale Univ, 2000-2002)	Course, Lecture or Laboratory, approx hours in duration (e.g., Radiation safety lecture, 3 hours)
University of Pittsburgh	Radiation Safety Lecture 2.5 hrs

Practical Experience with Radionuclides

Radionuclide	Institution and dates	Type of procedure, mCi used at one time	Estimate of total hours of use

Were you a principal investigator at a previous institution? Yes No
If yes, list name of institution, time period, number of personnel in lab, name of current RSO.

If no, for most recent institution list name of lab PI, your position.
