

# INSTRUCTIONS FOR COMPLETING THE APPLICATION FOR AN AMENDMENT TO RADIOACTIVE MATERIAL APPROVAL

## **SECTION 1: General Applicant Information**

Fill in Approval holder number and name.

## **SECTION 2: Amendment Requesting**

Give a short description of what you want to amend to your approval.

## **SECTION 3: Radionuclide and Activity Information**

Complete this section to add a radionuclide or to modify an existing activity. The activity you request for each nuclide must realistically reflect actual RAM usage; enough to accommodate lab stock, pending orders and in lab waste storage. The Radiation Safety Committee may reduce radionuclide activity requests that seem high based on information supplied in the application.

## **SECTION 4: Exempt Protocols**

**By using this option, applicant certifies that exempt protocol selected will NOT involve any of the following:**

- (a) volatilization potential or any potential release to room air or the atmosphere,
- (b) use of animal subjects/tissue under jurisdiction of Institutional Animal Care and Use Committee (IACUC),
- (c) use of human subjects/tissue/bodily fluids under jurisdiction of Human Subjects Committee,
- (d) work involving Biosafety Level 2, 3, or 4 procedures.
- (e) protocol performed more than 15 times per month, or
- (f) protocol exceeding the Single Procedure Exemption Limit outlined in the exempt protocol list.

The Protocol Code can be found on the [Exempt Protocol List](#). An exempt protocol may have multiple nuclides and/or chemical forms listed. Include the activity for each protocol and approximate number of times the protocol will be performed each month.

## **SECTION 5: Non-Exempt Protocol for Use of Radioactive Materials**

Complete if performing any protocols not specifically listed as an exempt protocol, or if your exempt protocol will exceed the Single Procedure Exemption Limit in a single procedure. In the blank area, provide a brief description of your experiment, include the following information: the chemical reactions involved, physical manipulations and laboratory techniques, such as centrifugation, scraping, freeze drying, incubation, aerosolization, volatilization, filtrations, titrations, precipitations, evaporation, types of chromatography, electrophoresis, cell harvesting, etc. Include information about the radionuclide activity per sample, average number of samples run in a typical experiment, and the anticipated frequency that the experiment will be performed. Also, include a description of the experimental protocol, such as information about storage of RAM and RAM waste, availability and use of shielding for each type of radionuclide to be used, radiation survey instruments, and use of fume hoods or safety cabinets.

Submit additional protocols on the page provided; only one protocol per page. Use continuation pages as needed.

## **SECTION 6:**

Must be signed by the Approval Holder.

**Exempt Protocol List (To be used for Section 3)**

<b>Protocol Code</b>	<b>Protocol</b>	<b>Single Procedure Exemption Limit</b>
E01	Calibration Standards	500 $\mu$ Ci
E03	Hybridizations: <i>In situ</i> Hybridizations, CAT Assays Blots: Northern, Slot, Southern, Western	500 $\mu$ Ci
E04	<i>In-vitro</i> Labeling of Nucleotides: End Labeling, Nick Translation, Random Prime Labeling, DNA Sequencing (Sanger method)	500 $\mu$ Ci
E05P	<i>In-vivo</i> Labeling Nucleotides in Plants.	1 mCi
E05M	<i>In-vivo</i> Labeling Nucleotides in Microorganisms.	
E05I	<i>In-vivo</i> Labeling Nucleotides in Insects.	
E06	<i>In-vitro</i> Labeling of Proteins: Translation	500 $\mu$ Ci
E07P	<i>In-vivo</i> Labeling of Proteins in Plants.	1 mCi
E07M	<i>In-vivo</i> Labeling of Proteins in Microorganisms.	
E07I	<i>In-vivo</i> Labeling of Proteins in Insects.	
E08	Radioimmunoassay (RIA)	500 $\mu$ Ci
E09	Receptor Binding Assays	500 $\mu$ Ci
E10	Sequencing Gels	500 $\mu$ Ci
E11	Transcription	500 $\mu$ Ci
E12	Autoradiography	500 $\mu$ Ci
E14	<i>In-vitro</i> Labeling of Sugars	500 $\mu$ Ci
E15	Polymerase Chain Reactions	500 $\mu$ Ci
E16	Enzyme Assays	500 $\mu$ Ci

THE UNIVERSITY OF ARIZONA

APPLICATION FOR AN AMENDMENT TO RADIOACTIVE MATERIAL APPROVAL

SECTION 1: GENERAL APPLICANT INFORMATION

Approval #	Approval Holder		
		First Name	Last Name

SECTION 2: AMENDMENT REQUESTING


SECTION 3: RADIONUCLIDE AND ACTIVITY INFORMATION

Radionuclide						
Max Possession Activity Request	mCi	mCi	mCi	mCi	mCi	mCi
Chemical Form:						

SECTION 4: EXEMPT PROTOCOLS (See "Exempt Protocol List" in the instructions for code and limitations)

Protocol Code	Radionuclide(s)	Chemical Form(s) Use online Chemical Form List <a href="http://www.radcon.arizona.edu">http://www.radcon.arizona.edu</a>	Activity per Protocol	Procedure Frequency (#/mo)

SECTION 5: NON-EXEMPT PROTOCOL FOR USE OF RADIOACTIVE MATERIALS

See page 2 of application. Use one page for each non-exempt protocol submitted.

**SECTION 6:** It is understood that the applicant named herein, upon approval of this application, assumes responsibility for the use of radioactive material assigned to him/her in strict compliance with the rules and regulations administered by the University Radiation Safety Committee, or the Medical Radiation Safety Committee, the Radiation Control Office (RCO), and the Arizona Radiation Regulatory Agency.

Further, the applicant is aware that any fines or civil penalties levied by any regulatory authority because of deficiencies in work being performed under the applicant's Approval will be paid out of the applicant's departmental funds. (This authority is based upon a directive from the Vice President for Research, Graduate Studies and Economic Development.)

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**SECTION 4: NON-EXEMPT PROTOCOL FOR USE OF RADIOACTIVE MATERIALS**

APPROVAL NO: \_\_\_\_\_

Protocol # \_\_\_\_\_  
RCO use only.

Protocol Frequency (# per month): \_\_\_\_\_

Protocol Name:

Radionuclide:

Chemical Form(s):

Max Activity  
Per Experiment:

Radionuclide:

Chemical Form(s):

Max Activity  
Per Experiment:

Before work can begin, approval from other committees such as: the Institutional Animal Care Use Committee, the Institutional Biosafety Committee, and the Human Subjects Committee, may be required.