

APPLICATION FOR RADIATION USE AUTHORIZATION (RUA)

Please provide all requested information in adequate detail. Use full legal names. Attach any additional information as appropriate. Be sure to sign and date the form at the end.

1. Principal Investigator: _____ Date: _____ Email Address: _____
University Position/Title: _____ Office Phone: _____ Lab Phone: _____
School/Department: _____

2. Locations:

Building	Rooms

- 3. Names of Other Personnel Working under RUA.** Individuals will need to complete appropriate radiation safety training if they have not previously done so. ***User Type: Authorized User (AU) or Supervised User (SU)***

[illegible]

4. Radioactive Materials to be Used:

[illegible]

5. **Description of Proposed Uses of Radioactive Materials.** Briefly summarize protocols for each radionuclide and procedures to be utilized.

6. **Radiation Monitoring Instruments to be Used:**

Portable Survey Meters for Directing Monitoring	Laboratory Counting Equipment for Wipe Tests

7. **Radiation Protection Precautions to be Followed.** Give sufficient information about the methods and/or control devices used to prevent accidental or unnecessary exposure of project personnel and members of the public. Include engineering controls (remote handling tools, shielding, interlocked safety devices, etc.), PPE and Personal Protection Monitors:



8. **Storage Procedures and Requirements.** Describe in general what special handling procedures you will use to work safely and keep your dose as low as reasonably achievable (ALARA). Greater detail and the precautions taken at a particularly hazardous step of the process should be included. Describe any special storage requirements for your stock radioactive materials, materials in process, and waste.

9. **Security.** Also indicate in this section any additional security precautions your lab will take to secure your radioactive materials.

Rooms containing radioactive material will be locked or under the control of RUA personnel to prevent the unauthorized use or removal of the material. If people not on the RUA are present in the room where the radioactive materials are stored, then the radioactive material will be either under constant surveillance by RUA personnel or locked such that it cannot be used or removed by an unauthorized individual.

Any loss or potential loss of radioactive material will be reported to Environmental Health and Safety as soon as possible after the loss is suspected.



- 10. Description of Radioactive Waste Methods and Estimation of Annual Volumes.** List predicted amounts of solids and liquids wastes, and liquid scintillation vials/fluids. Please address issues such as toxicity and volatility of compounds, pathogenicity of agents, and/or carcinogenicity:



11. Description of Potential Accidents, Spills, or Releases to the Environment. {i.e., evolution of gases or aerosols, or the volatilization of any compounds}

12. Spill Control

In the event of a minor spill (<20,000 dpm/100 cm²) the spill will be cleaned up with appropriate PPE as per the Chapman Radiation Safety Program.

For larger spill the spill will be contained if this can be done without further contamination or significant increase in radiation exposure. The area will be isolated with rad tape or signs and the RSO will be contacted for further guidance. In both cases an incident and accident report will be filled out.

13. Emergencies

EH&S must be notified immediately of any of the following situations:

- Skin contamination
- Ingestion of radioactive material
- Unexpected personnel exposure
- Airborne radioactivity
- Loss or theft of radioactive materials

In the event of skin contamination:

- Remove contaminated clothing and wash the contaminated skin area gently with mild soap and lukewarm water (never hot water!) Do not abrade the skin with rough scrubbing or excessive washing, and do not use solvents. Restrict movements, call EH&S, and stay in the area until EH&S arrives.

EH&S Contact Information

Business hours: 8:00am to 5:00pm Monday to Friday

Phone: **(714)532-6023**

Outside of business hours, call Public Safety at (714) 997- 6763 (or 911 from any campus phone).

14. Description of Decontamination.

All radioactively contaminated equipment, glassware, containers, etc. will be clearly labeled until decontamination has been verified to be below the limits for removable surface radioactivity according to the Chapman Radiation Safety Program.

Surface contamination will be cleaned with paper towels and a decontamination solution. A paper towel will be wetted with a decontamination solution and then working from the outer edge of the contaminated area, the surface will be inward and not a circular fashion toward the center of the contaminated area. The towel will be discarded into a radioactive waste container after each pass and will not be reused. This process will be repeated until the paper towels are no longer picking up contamination.

15. Lab-specific Training Documentation

I have read and understood the content of this RUA			
Name (printed)	Chapman ID	Signature	Date

I CERTIFY THAT ALL WORK AS DESCRIBED ABOVE WILL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL AND STATE REGULATORY REQUIREMENTS AND ALL CAMPUS RADIATION SAFETY PROCEDURES.

Signature of Responsible Principal Investigator

Date