

University of California, Irvine
Radiation Safety Committee

INSTRUCTIONS FOR COMPLETING AN APPLICATION
FOR RADIATION USE AUTHORIZATION (RUA) FOR
MACHINES PRODUCING IONIZING RADIATION

The UCI Radiation Safety Committee and the Radiation Safety Division of the Office of Environmental Health and Safety (EH&S) are charged with the responsibility of authorizing and controlling the use of radiation-producing machines on the campus. All operation of radiation-producing machines must be done in accordance with the regulations of the California Department of Health Services.

To provide for a proper evaluation of an application for an RUA and avoid unnecessary delays in the approval process, please provide specific information as outlined below. *Item numbers are keyed to the application form.*

2. **Locations.** Please list all locations where radiation-producing machines will be installed. If any off-campus locations are anticipated, please be sure to note these, as well.
4. **Names of Other Personnel Using Radiation-Producing Machines.** Please indicate all personnel who will be involved with the project.
5. **Radiation-Producing Machines to be Used.** Please list the types of machines, manufacturers, model numbers, serial numbers, and the maximum rated kilovolts and milliamps for each machine to be possessed. Answer the three questions and provide a description of any new construction or site modifications on an attached sheet.
6. **Radiation Monitoring Instruments (Fixed and/or Portable) to be Used.** Please list portable survey meters (ion chambers, Geiger counters, etc.) and fixed radiation monitoring instruments which will be available during machine operations.
7. **Description of Proposed Use of Radiation-Producing Machines.** Separating the information into human and non-human use categories, please outline operational techniques to be utilized in the project for each machine and type of experiment. Describe animals (species, numbers to be irradiated, and doses), and the procedures to be utilized for them.
8. **Radiation Protection Precautions to be Followed.** Describe facilities, equipment, and radiation control procedures to be utilized. This section should address the issues of shielding, interlocks, warning lights and audible alarms, use of dosimetry, and control of access to rooms, console keys and "on"/"off" switches.

Approval of your RUA permits you to use ionizing radiation-producing machines only in the manner which has been approved, including any restrictions as listed on your RUA. Any changes in machines, operating parameters, protocols, locations or personnel must be submitted to EH&S for approval as an amendment to your RUA.

Please contact me at x46098 or rcmannix@uci.edu if you need assistance in preparing your application or have any other questions regarding radiation protection.

Rick Mannix
Radiation Safety Division