

Radiation-producing devices produce ionizing radiation when energized or have a fixed radioactive source. These devices are used at USC for diagnostic, therapeutic, and analytical purposes. They include x-ray machines, electron microscopes, CT scanners, fluoroscopes, ECDs in gas chromatographs, and linear accelerators.

DO I HAVE TO REGISTER MY RADIATION-PRODUCING DEVICE?

Yes. The California Department of Public Health-Radiologic Branch (CDPH-RB) requires registration as well as a formal program that encompasses: hazard communication; training, PM services, and shielding plans. Failure to comply may lead to stop orders, interruption of services, and imposed fines.



HOW DO I REGISTER MY RADIATION-PRODUCING DEVICE?

Radiation Safety will assist researchers in registering their devices with the State. Registration of new or unregistered devices begins with a device registration email (see [Radiation Devices and Registration](#) page). Radiation Safety will follow up with the owner to solicit additional information and complete the registration process. Renewal reminders will be sent periodically.



ARE THERE COSTS ASSOCIATED WITH REGISTRATION?

There are State and Los Angeles County fees. State registration fees occur every two years. If a shielding plan is required for your device, fees are charged initially and whenever the conditions of the plan change. Contact radsafety@usc.edu for more information.

ARE THERE ADDITIONAL REQUIREMENTS FOR USING RADIATION DEVICES ON HUMANS?

Yes! All radiation devices used on humans must be operated by individuals who are licensed/certified by the State of California. Consult with Radiation Safety to review specific training and regulatory requirements associated with each device.



Note that radiation devices used on humans as part of research must have corresponding protocols reviewed by the Radiation Safety Committee (submit protocol through iStar at <http://istar.usc.edu>) even if it is considered part of the Standard of Care.

What I need to do

- Register my radiation devices with the State through Radiation Safety.
- Submit research protocols for use of the devices on humans or animals through iStar.
- Notify EH&S of any removals/additions of radiation devices.
- Contact EH&S at (323) 442-2200 if I have any questions/concerns.

ARE THERE ANY ADDITIONAL REQUIREMENTS FOR USING RADIATION DEVICES ON ANIMALS?

The use of radiation-producing devices on animals for research purposes requires an approved RUA application reviewed by the Radiation Safety Committee (RSC) in addition to the Institutional Animal Care and Use Committee (IACUC) approval.



IF I USE A NON-USC RADIATION-PRODUCING DEVICE, DO I NEED TO REGISTER IT?

No. However, you will need to document training for the device. Radiation Safety Training will be provided by EH&S and training in operational procedures will be provided by the device supervisor with operational experience. Contact EH&S for assistance in both types of training.



REFERENCES

California Department of Public Health - [Radiologic Health Branch](#)

Radiologic Health Branch (RHB) [Laws and Regulations](#)

Los Angeles County Department of Public Health

- [Radiation Shielding Plan Application](#)
- [Radiation Management Program](#)

