
Radiation Generating Devices (RGD) Safety Guidelines

AUTHORIZED PERSONNEL ONLY - You must have departmental approval and proper equipment orientation training prior to using x-ray equipment. A Radiation Safety information handout is available as a resource. See the equipment supervisor or call the Radiation Safety Office at 859-323-6777.

- To ensure your safety, do not attempt any unauthorized repair of x-ray unit.
- Do not allow hands, fingers, or other body parts to enter the x-ray beam.
- Be sure the beam is off, and shutter is closed prior to sample change or other activity. Check all warning lights prior to placing hands near the beam line. Use a GM radiation survey instrument to confirm "beam off" conditions.
- Use the shielding and interlocks provided. Do not bypass the interlocks.

Should any safety related interlock or device fail, the unit should be taken out of service until such time as effective repairs have been made. Failure of beam shutter(s) must be reported to the Radiation Safety Office. A health physicist shall physically inspect the unit prior to use, after such repairs have been made. If you are having problems with the equipment, ask for assistance.

In case of emergency or accident, notify your supervisor and Radiation Safety immediately at 859-323-6777. Prevent further use of the unit until a safety evaluation is done.

Radiation Safety provides this safety log to document your ongoing x-ray safety checks for your Radiation Generating Devices. This should be carried out at a minimum once a month, but not to exceed 6 months.

Tests of all safety devices such as interlocks, shutters, and warning lights, shall be conducted at intervals not to exceed Six Months for all operable analytical x-ray equipment. Records of such tests shall be maintained for inspection by the Radiation Safety Office in accordance with the Kentucky Radiation Health Branch.

1. "X-RAY ON" light on control panel
2. "X-RAY ON" light near source housing
3. "SHUTTEROPEN" light
4. Sliding Door interlocks

[illegible]

Radiation Generating Equipment (RGD) Maintenance Log

Make _____ Model. _____ Serial# _____

[illegible]

*I = Incident; *M = Maintenance; *R = Repair