

ELECTRON CAPTURE DETECTORS AND OTHER GENERALLY LICENSED RADIOACTIVE MATERIAL CONTAINING DEVICES

The University of Nebraska–Lincoln has two, separate licenses with the State of Nebraska under which the use of radioactive material (RAM) is approved. The first is a Broadscope License and the second is a General License. A majority of RAM use at UNL is performed under the terms and conditions of the Broadscope License. Use of RAM under the Broadscope License requires an application and approval by UNL's Radiation Safety Committee (see the EHS SOP, ***Approval Requirements for the Use of Radioactive Material***). Very limited uses of RAM can be performed under the terms and conditions of UNL's General License (GL). The purpose of this SOP is to outline the requirements and responsibilities for using RAM under UNL's GL.

Use of RAM under the GL is limited to certain devices and equipment where the manufacturer has incorporated RAM into the device/equipment in accordance with a U.S. Nuclear Regulatory Commission license specific for this purpose. Examples of generally licensed items at UNL include:

- Electron capture detectors
- Tritium exit signs
- Internal calibration standards
- Static eliminating devices
- Ion generation tubes

Requirements

The use of GL devices/equipment does not require approval by the UNL Radiation Safety Committee. However, these devices **MUST** be registered with the UNL Radiation Safety Office (402-472-4925 or rso@unl.edu), who will in turn register the equipment with the State Office of Radiation Control. Additionally, a responsible individual **MUST** be established for each device at the use location.

State registration is specific to the location of the equipment. Therefore, if the equipment is moved (e.g., to a different room), the Radiation Safety Office **MUST** be notified to update the GL.

The purchase, transfer or disposal of GL devices **MUST** be coordinated through the Radiation Safety Office. ***NEVER SEND EQUIPMENT CONTAINING A GL DEVICE TO INVENTORY.***

GL devices can only be used or operated in accordance with the manufacturer's procedures. Operators should be trained to these procedures, and never attempt to disassemble, modify or remove cautionary labeling from the device.

The use of a GL device does not require a survey meter or dosimeter. However, confirmation of the device's location and tests for contamination (leak testing) **MUST** be performed every 6 months. This function is coordinated and performed by the Radiation Safety Office.