

## ELECTRON CAPTURE DETECTORS AND OTHER GENERALLY LICENSED RADIOACTIVE MATERIAL CONTAINING DEVICES

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The University of Nebraska–Lincoln has different licenses with the State of Nebraska under which the use of radioactive material (RAM) is approved. One is a Broadscope License and the other is a General License. Use of RAM under the Broadscope License requires an application and approval by UNL’s Radiation Safety Committee. 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 who will in turn register the equipment with the State Department of Health and Human Services. 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. Confirmation of the device’s location and leak testing **MUST** be performed. This function is coordinated and performed by the Radiation Safety Office.