

Environment, Health & Safety

Checklist for “OK to Service” and Unrestricted Release of Equipment Used with Radioisotopes

In order comply with applicable regulations, use the checklist below in order to release equipment used with radioactive materials for repair or release for general use.

1. **“OK to Service”**: Determine if area to be repaired has been used for radioactive materials.

Call EH&S Radiation Safety at 829-3281 if you have any questions or cannot clean items to the levels listed below.

A. Survey equipment inside and out using both survey meter and wipe survey.

- ____1) Wipe survey shows less than 3 (three) times background count rate.
 - Use liquid scintillation counting for beta emitting isotopes:
e.g. H-3, C-14, S-35, P-32, P-33
 - Use a gamma counter for radioisotopes that are gamma emitters:
e.g. I-125, Co-57, Na-22, Cr-51, Fe-59
- ____2) Survey Meter scan taken at distance 0.5 cm shows less than 3 (three) times background count rate.
 - Use a pancake GM probe for items that have been used with beta emitting isotopes.
 - Use a low energy gamma probe for:
I-125, Co-57, or other isotopes that have significant gamma emissions between 10 and 40 keV.
 - Use a high energy gamma probe for:
Na-22 or Fe-59 or to survey for any gamma emitting isotopes which have an energy above 40 keV.

B.____ Remove radioactive materials from area to be repaired.

C.____ Remove radioactive materials label **before** sending for repair.

2. Unrestricted Release of Equipment

A.____ Do all the above.

B.____ Contact EH&S Radiation Safety to formally survey and tag any item used with radioactive materials **before** it is scrapped or transferred to a new user.