



# Module 9 GENERAL RULES FOR Sealed Sources



# Fundamentals

Sealed sources constitute a class of radioactive materials that have been encapsulated into high-integrity sealed containers which prevents the release of the source material.

Sealed Source capsules are designed to allow useful radiation to penetrate the walls, while containing the radioactive material.

Source capsules, source housing or sealed source containing instruments are regularly tested to ensure the capsule is not compromised and releasing radioactive material (Leaking).

# Radiation Protection

Although most sealed sources on campus have low radioactivity, they should not be held by the hand for long periods of time.

Never place a sealed source on any body parts.

Under no circumstances should the encapsulation of the source be broken. If a sealed is cracked or broken, report it right away to the Radiation Safety Office.

Once you are finish using the source, place it in a locker

# -Radioactive

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# Regulations

All sealed sources on campus are required to be inventoried by the Radiation Safety Office (even if the manufacturer says it is an exempt source).



# Regulations

All users of sealed radioactive sources are required take the appropriate training by the Radiation Safety Office and pass the subsequent exam.

The Radiation Safety Office will decide whether a whole-body badge or ring is required to use the sealed source depending on its hazards.

radiation use/storage of sealed source with their personnel.

Users of soil moisture density gauges are required abide by the above regulations and additional regulations that the Radiation Safety Office will go over with the PI.

# Regulations

Laboratories that use sealed sources (no matter how small the activity) are required to have the proper posting/security for radiation use/storage.

If the sealed source is located inside equipment (such as never be removed from its housing.

Sealed sources located inside liquid scintillation counters shall only be removed by the Radiation Safety Office prior to surplus.

Remember, that under no circumstances, should the integrity of the sealed source be broken.



# Examples

