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Instructions for Performing Radioactive Source Leak Test
(Using kit LT-952 for sealed gamma/x-ray emitters)

Whenever possible follow the source/device manufacturer's instructions in performing a leak test. In general, you should use the swab supplied in the LT-952 kit to wipe the source directly whenever consistent with proper safe use. Alternatively, you should wipe the surface that the source comes into contact with during use/operation of the device the source is a component of, or the surfaces of the source holder/shield. In making the wipe you should hold the swab stick at an angle to the source beam port or storage hole to minimize radiation exposure. If the source is large and has a surface exposure rate greater than 1 R/min, the swab must be held with a long handle tong or pliers to minimize your exposure during this wiping procedure. Consult your source/device owner's manual for exposure information and safe leak testing technique. Many devices may be tested with the source in safe/storage position and you only need to wipe the source exit port surface area to meet compliance with source leak test requirements.

Once you have properly positioned the wipe as described above you should move the swab head firmly against the source/device surface. Use some rotation of the swab in this wiping procedure which should take about 5 seconds. Once the wipe is completed, place the wipe back into the poly bag and **label the bag and complete the Leak Test Data/Certificate form** provided with the source/device data. Place the poly bag with the wipe test and the completed certificate form into the pre-addressed padded mailer. Fold the mailer tab over and seal with staples or tape. **It is important that the test bag is placed into the padded mailer even if you are returning by Fed-X or Express mail.**

Note: a dry swab is the regulatory standard. A wet or damp swab, however, is more efficient at holding/retaining material that is wiped. If a swab becomes dry during storage of a wipe test kit, you may re-wet the swab before use.

Note: If your gauge has **more than one radioactive source**, you only need to perform one wipe test. However, you must complete a leak test certificate for each source in your device. Please **make a copy of our Blank certificate** for each source in your gauge before completing the forms.

Note: If your device contains an **Fe-55 source**, your kit swab has a small filter paper folded around the swab. Use this swab dry as you would use an ordinary swab to perform the source/device leak test. **Do not remove the filter paper from the swab.**