

Am-241 gamma calibration source (SOP)

Building/Room(s) covered by this SOP	Cenpa 110
Department	Physics
Principal Investigator Name	Peter Kammel
Principal Investigator Signature/Date	7/25/2025

1. Purpose

This SOP outlines the safe handling, storage, and usage procedures for an Am-241 gamma-emitting radioactive source used in laboratory settings.

2. Scope

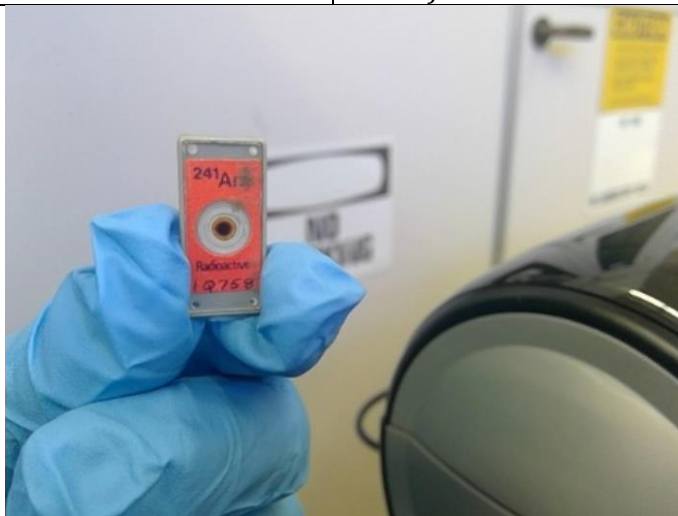
Applies to all personnel handling sealed Am-241 sources for calibration, detection, or measurement applications in controlled lab environments.

3. Responsibilities

Lab Personnel: Must complete radiation safety training before handling.

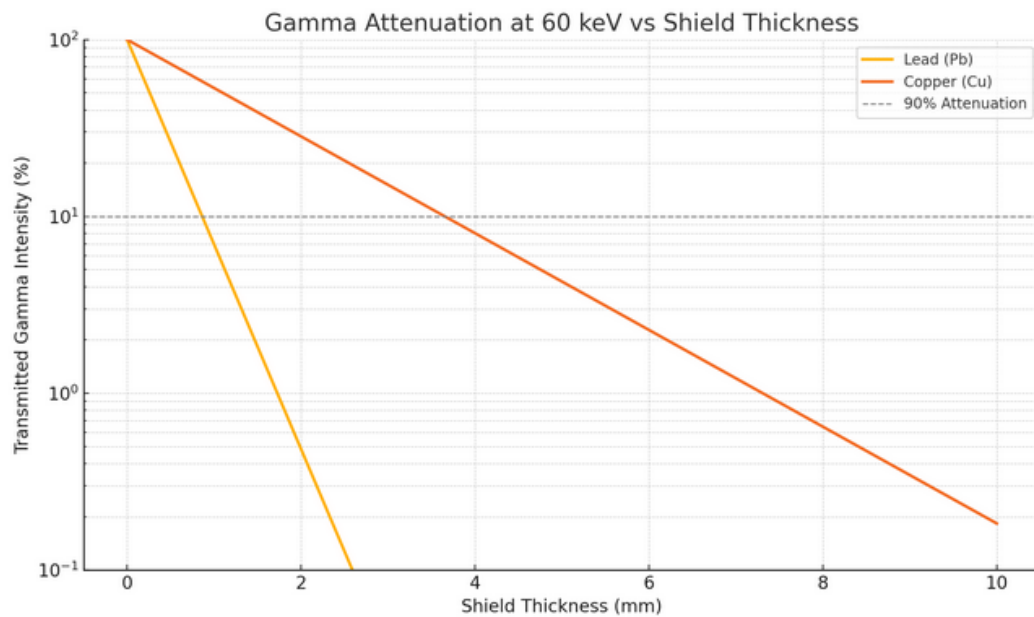
4. Source Information

Parameter	Value
Isotope	Americium-241 (Am-241)
Activity	12 uCi
Radiation Type	Primarily alpha, with 59.5 keV gamma
Form	Sealed source (e.g., button, disk, epoxy-sealed)



6. Safety Precautions

1. Minimize exposure (minimize time, maximize distance) when handling and installing the source.
2. Wear gloves when handling the source and do not touch the active surface. Alternative keep it in a plastic bag to avoid direct contact. Better use both. Wash hands after handling the source.
3. Secure source in locked cabinet when not in use.
4. Monitor radiation levels using a calibrated survey meter. 60 keV gammas can be easily shielded with 2mm of lead or 5 mm copper.



training records maintained by G. Holman

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