

SOP template · Draft

Decay-in-storage SOP

Waste segregation, hold-time calculation for the full Ac-225 decay chain, and release survey procedure.

1. Segregation

- Segregate Ac-225 waste from other radioactive waste streams.
- Label containers with isotope, date of generation, and expected release date.

2. Hold time

Calculate hold time against the full Ac-225 decay chain, not the 9.9-day parent half-life. Document the calculation and the assumptions.

3. Release survey

- Perform alpha-capable release survey at end of hold period.
- Result must be below institutional release criteria.
- Document survey, surveyor, instrument, and result.

4. Records

Generation log, hold calculation, release survey, and disposition retained per institutional policy.