

NRC regulation: [10 CFR 20](#), [10 CFR 30](#), [10 CFR 35](#)

RSO qualifications, training, and facilities (10CFR35.50)

Education: BS, MS or PhD, science or tech field **RSO Training:** 40-hour RSO

Experience: 5 years or more in health physics, and pass certification exam in an applicable field; possibly up to 200 hours of formal training

Others: ARSO, Authorized Users, Medical Physicists, and Nuclear Pharmacists must be approved by regulators and certified by appropriate boards

Facilities: Must be adequate to protect health, minimize danger, and secure sources against loss, theft, or damage.



Radiation Safety Program Components

Dosimetry: External dosimetry for all rad workers, bioassay for I-131 users

Instrumentation: Ion chamber or energy-compensated GM for dose rate; pancake GM, gamma scintillation detector for contamination. Calibrate annually.

Surveys: ([10 CFR 35.70](#)) Daily dose rate surveys, contamination surveys as noted in license application and license

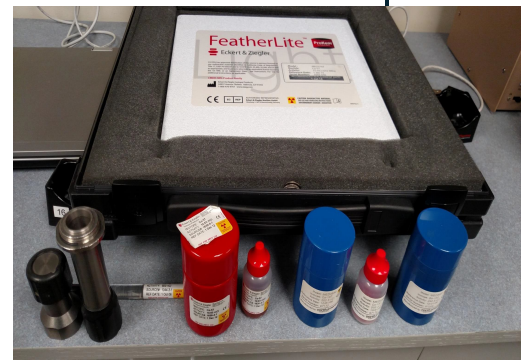
Source inventory: Maintain inventory of radiopharmaceuticals; inventory and leak test dose calibrator check sources as noted in license (generally every 3 or 6 months).

Program audit: Annual (by internal or external auditor)

Procedures: Required to develop and use security procedures, operating procedures and emergency response procedures for each type of fixed gauge

Radioactive package receiving: Required to have SOP for receiving radioactive materials.

Other considerations: Survey hands and feet for contamination before exiting Hot Lab.

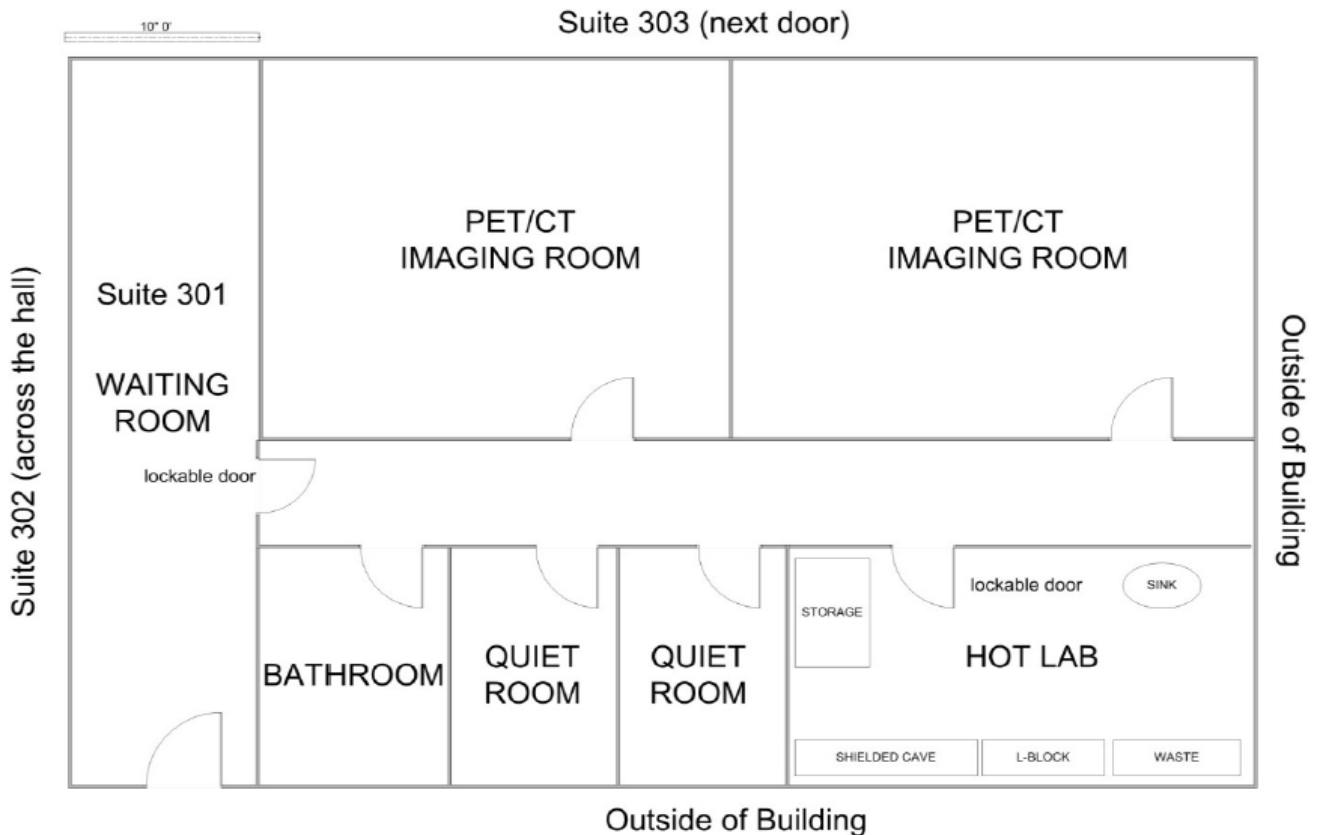


Records retention

This table shows retention requirements for some of the required records. For a comprehensive list, see NUREG 1556 volume 9, Appendix X.

Record	Retention	Record	Retention
Receipt records	3 years following transfer or disposal of source	Inventory	5 years
Source transfer		Disposal	Until license terminated
Important to decommissioning	Until site released for unrestricted use	Dosimetry	Until license terminated

Example Nuclear Medicine suite



Suite 301 is on the top floor in the corner of the building.

Suite 302 is occupied by an oncology practice.

Suite 303 is occupied by an obstetrics and gynecology practice.

Directly below Suite 301 is a dental practice.

XX centimeters (cm) of lead[†] or XX cm of poured concrete[†] will be in doors, walls, ceiling, and floors of hot lab, quiet rooms, and imaging rooms.

Nevada Technical Associates, Inc.

P.O. Box 93355
Las Vegas, NV 89193

Phone: 702-564-2798 E-mail: service@nevadatechnical.com

Visit www.ntanet.net for more radiation safety training and consulting resources.