



Radioactive Materials (RAM) Program

New / Renewal Veterinary License Checklist

Licensee _____ Lic. # _____

- Submit 1 copy only.** Number all pages sequentially that are submitted for review.
- Review the NUREG-1556 Volume 7 & 9 It can be used as guidance to complete this checklist.
 - Submit all Policy and Procedures to the Nevada Radiation Control Program.
<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/>
- Submit the Application** signed by executive management or a person authorized to sign original documents.
- Financial Assurance, Decommissioning and Emergency Plans:**
 - If financial assurance is required, submit documentation required by NAC 459.1955.
 - If emergency Plan is required per NAC 459.1951, submit the plan required by NAC 459.195.
- Mark all materials below that are requested, and submit the use for each selection.

Radioactive Material

Form

Max Quantity

<input type="checkbox"/> Any radioactive material permitted by 10 CFR 35.100	Any	As needed
<input type="checkbox"/> Any radioactive material permitted by 10 CFR 35.200; except gases, generators and PET radioisotopes List materials to be used:	Any	As needed
<input type="checkbox"/> Positron Emission Tomography (PET) permitted by 10 CFR 35.200	Liquid (or other form)	_____ millicuries (_____GBq); _____ millicuries (_____GBq) per dose
<input type="checkbox"/> Iodine-131 permitted by 10 CFR 35.300	Sodium iodide capsules or liquid	_____ millicuries (_____GBq); _____ millicuries (_____GBq) per dose
<input type="checkbox"/> Other:	Form:	_____ Units:

*Medical Use - Sealed sources (Manufacturer and Model Number)

Sealed sources Policy & Procedure –

- Submit a complete current inventory with the date & RSO initials
Include: Manufacturer, model no. & serial no., nuclide & activity and storage location
- Commit to a physical inventory every 6 months and maintain for **3 years**.
- Commit to Leak Testing as ≤ 6 months / maintain records per 459.307 and submit:
 - Include the name of the company supplying kits and analyzing the leak tests.
 - If they are self-analyzed, submit Licensee's procedures for analysis.
 - List of Users to perform leak tests other than the RSO, & submit their training.

Storage and use facility address and diagram

- Addresses of the business office & use facility
- Complete facility diagram: direction N↑, labeled immediate/surrounding rooms and hallways, storage area, secure areas, occupancy factor and scale.
- For generators, PET: Submit shielding report and commitments to shielding
- Describe means of preventing access to unauthorized personnel, locks, key pads etc.
- Submit a copy of letter from the land lord stating that they are aware of the storage/use of RAM.
[http://dpbh.nv.gov/uploadedFiles/dpbhnavgov/content/Reg/Radoactive-Mtl/Docs/LandlordAcknowledgementForm\(11-17-15\).pdf](http://dpbh.nv.gov/uploadedFiles/dpbhnavgov/content/Reg/Radoactive-Mtl/Docs/LandlordAcknowledgementForm(11-17-15).pdf)
- Submit a copy of State or local business license with the storage address.

RSO: Review 10 CFR 35.50 & NUREG 1556 requirements. (*The alternate RSO is not required*)

- Submit an organizational chart and a Delegation of Authority form with wet signatures to act on the license: http://dpbh.nv.gov/uploadedFiles/dpbhnavgov/content/Reg/Radoactive-Mtl/Docs/RSO_DelegationAuthority.pdf and
- Submit current RAM license from NRC or agreement state, must be named as RSO for same uses, or
- Meet one of the three criteria as stated on the Veterinary AU / RSO requirement guidance.

Authorized User (AU) (*Submit a complete list of all AU's and uses.*)

- Veterinarian must have a license from the State of Nevada to practice Veterinary Medicine, and
- Submit current RAM license from NRC or agreement state, must be named as AU for same uses, or
- Meet one of the three criteria as stated on the Veterinary AU / RSO requirement guidance.

Dosimetry: NUREG 1556 Vol. 9 Rev. 2 - Appendix M

- Provide the name of your dosimetry provider (must be NVLAP approved) and list the exchange frequency.
- Explain the type of dosimetry used (WB & finger) (film & TLD)
- Commitment to maintain Control Badges and records indefinitely
- If the licensee does not use dosimetry due to 10% rule; they need to submit proof that they are below the 10% annual exposure limit.
- Policy and Procedure Bioassay screening required for volatile forms of I-131

ALARA Program

- Commit to an annual review of the Radiation Protection Plan, including the Written Directive Policy
- Submit a copy of the written directive, a sample for each type of therapy.
- Commit to posting "Caution Radioactive Material" and "Caution Radiation Area" signs appropriately
- Commit to posting the current NRC1 "Notice to Employees" signage
- Commit to ALL staff that pack, ship or determine shipping of RAM will obtain HAZMAT training

Training: NUREG 1556 Vol. 9 Rev. 2 - Appendix J

- Commit to an annual training assessment and implementation per NUREG 1556 Vol. 9
- Commit to training & dosimetry records to be on site for Agency Techs/Students that are on site.
- Submit current HAZMAT training certificate to ship hazardous materials (49 CFR required)

Radiation Monitoring:

- Submit meter manufacturer, model #, serial #, probes, and use (Rate -v- contamination)
- Submit the name of the company performing the calibration
- Commit to calibration annually and to maintain records for 3 years.

Dose Calibrator (Required for Diagnostic):

- Commit to calibration in accordance with National Standards or per manufacturer's instructions:

TEST REQUIRED	FREQUENCY
Accuracy	at installation, then annually thereafter
Constancy	at installation, then daily thereafter
Linearity	at installation, then quarterly thereafter
Geometry	at Installation; after repair, loss of power or moving instrument

- Commit to maintain record for 3 years
- If no dose calibrator is used per 10 CFR 35.63. Commit- *"We will use decay correction for the unit dose from the radiopharmacy prescription."*

- Area Surveys:** NUREG 1556 Vol. 9 Rev. 2 - Appendix R
 - Area surveys for each day and area where material is used, include Trigger Level
 - Weekly Wipe (Contamination) survey, include the Trigger Level
 - Commit to maintain records for 3 years

- Safe Use of Unsealed Material:** NUREG 1556 Vol. 9 Rev. 2 - Appendix T
 - Submit the Policy and Procedure

- Emergency and Spill Procedures:** NUREG 1556 Vol. 9 Rev. 2 - Appendix N
 - Submit the Policy and Procedure
 - State of Nevada Emergency numbers and RSO contact information

Radiation Control Program (8:00AM–5:00PM M-F)	(775) 687-7550
Radiation Control Program 24 hr Emergency Number	(877) 438-7231
Nevada Highway Patrol (24 hrs)	(775) 687-0400

- Order & Receipt of Materials:** NUREG 1556 Vol. 9 Rev. 2 - Appendix O
 - Submit the Policy and Procedure

- Opening Packages containing RAM:** NUREG 1556 Vol. 9 Rev. 2 - Appendix P
 - Submit the Policy and Procedure

- Animals Used for veterinary medicine radiation safety Procedures** NUREG 1556 Vol. 7 - Appendix H
 - Policy and Procedure for training
 - Policy and Procedure for Contamination control
 - Policy and Procedure for Release of Animals
 - Policy and Procedure for instructions to animal care takers upon release

- Waste management:** NUREG 1556 Vol. 9 Rev. 2 - Appendix W
 - Commitment-“Radioactive Waste and sealed sources will be transferred to a low level waste facility, returned to the manufacturer or transferred to a specific licensee authorized to possess the material.”
 - Submit Decay in Storage Policy and Procedure (t1/2 <120 day is allowed)
 - Commitment to maintain records of receipt, transfer, and disposal of all sealed sources received and possessed under the license
 - Commitment that license termination will be conducted in compliance with Nevada Administrative Code (NAC) 459.200.

Not Common Use: May not apply to most applications

- Mobile Imaging (Approved on a case by case basis):** NUREG 1556 Vol. 9 Rev. 2 - Appendix V
 - Explain the use and transportation:
 - A coach (self-contained, materials stay with vehicle); or Include the VIN for the coach
 - A van (materials & camera will enter use locations) Include the address for each use location.
 - Submit a Memorandum of Understanding (MOU) for each location of use.
 - Submit a facility diagram for each site, including the BASE.
 - Commitment: “Radioactive Materials will be transported in accordance with U.S. DOT regulations.”

CERTIFICATION

The Applicant understands that all commitments that are marked above are binding and considered part of the license application; if not applicable, DO NOT mark. All applicable items that require submission must accompany the application, license fee and this checklist.

CERTIFYING OFFICER —PRINTED NAME

TITLE

SIGNATURE

DATE