



# RADIOACTIVE MATERIALS (RAM) PROGRAM

New/Renewal Naturally Occurring Radioactive Material (NORM) (Water treatment only) License Checklist

Licensee:

License Number:

- ☐ **Review the NUREG-1556 Volume 7** (obtain the current revision from the website).  
<https://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/index.html>
- ☐ Submit the Application signed by executive management, or a person authorized to make commitments for the business entity requesting/possessing the license. If signed by someone other than senior management or Radiation Safety Officer(RSO) / Alternate Radiation Safety Officer (ARSO) provide a non-RSO delegation of authority form:  
[https://dpbh.nv.gov/Reg/RAM/dta/Forms/Radioactive\\_Material\\_Program\\_\(RAM\)-\\_Forms/](https://dpbh.nv.gov/Reg/RAM/dta/Forms/Radioactive_Material_Program_(RAM)-_Forms/).
- ☐ **Financial Assurance, Decommissioning and Emergency Plans:**
  - ☐ If financial assurance is required, submit documentation required by Nevada Administrative Code (NAC) 459.1995.
  - ☐ If an emergency plan is required per NAC 459.1951, submit the plan required by NAC 459.195.
- ☐ **Storage and use facility address and diagram**
  - ☐ Provide the addresses for the business office and use facility as applicable.
  - ☐ Provide a facility diagram, with the following details as applicable: indication of north; labeled immediate/surrounding rooms, hallways, storage area, secure areas; occupancy factors; alarm system component including cameras, sensors; and scale or physical dimensions of facility / building.
  - ☐ Provide a process and instrumentation diagram for the water treatment system and any detailed drawing showing any automation or blowdown features for the filter/resin bed.
  - ☐ Describe the means of preventing access to unauthorized personnel. Include information and training for staff if material/storage are accessed outside of normal business hours.
  - ☐ Submit a copy of the Landlord Acknowledgement of Responsibilities Related to Radioactive Materials form available at:  
[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 local business license with the storage address and a state business license.

- ☐ **RSO / ARSO:**
  - ☐ Submit an organizational chart showing the RSO / ARSO relationship with management.
  - ☐ Submit a completed Delegation of Authority form for the RSO / ARSO or RSO / ARSO candidates (same form is used for both the RSO and ARSO):  
[http://dpbh.nv.gov/uploadedFiles/dpbhnavgov/content/Reg/Radioactive-Mtl/Docs/RSO\\_DelegationAuthority.pdf](http://dpbh.nv.gov/uploadedFiles/dpbhnavgov/content/Reg/Radioactive-Mtl/Docs/RSO_DelegationAuthority.pdf)
  - ☐ Provide proof of training and experience for any new RSO / ARSO to be added. This could include a RAM license issued by another agreement state or the State of Nevada where the prospective RSO / ARSO is listed as an RSO / ARSO for the same or similar use of NORM.
- ☐ **Unsealed RAM Inventory Policy and Procedure**
  - ☐ Submit a list of nuclides and maximum possession limits for each (e.g. Natural Uranium 150 kilograms (kg)).
  - ☐ Describe the use of each nuclide requested. (e. g. As captured in resin bed for removal from drinking water.)
- ☐ **Dosimetry:**
  - ☐ Provide the name of your current/planned dosimetry provider (must be NVLAP approved).
  - ☐ List the exchange frequency.
  - ☐ List the type of dosimetry used (whole body / extremity) (optically stimulated / thermoluminescent).
  - ☐ Commit to maintaining control badges and exposure records indefinitely.
  - ☐ If not using dosimetry due to using the 10% rule; submit calculations and assumptions as proof that exposures are below the 10% annual exposure limit.
- ☐ **ALARA Program:**
  - ☐ Commit to an annual review of the Radiation Protection Plan/Policy/Procedure.
  - ☐ Commit to posting “Caution Radioactive Material” and “Caution Radiation Area” signs appropriately.
  - ☐ Commit to posting the current NRC1 “Notice to Employees” signage.
  - ☐ Provide a public dose estimate.
- ☐ **Radiation Monitoring Equipment:**
  - ☐ Submit meter manufacturer, model and serial numbers, probes, and use (rate -v- contamination).

- ☐ Commit to annual calibration of survey meters and to maintaining records for three years.
  - ☐ Submit the name of the company performing the calibration.
  - ☐ If performing calibrations locally, provide a copy of calibration procedures.
- ☐ **Operating and Emergency Procedures:**
  - ☐ Submit step-by-step procedures for safe use of RAM.
  - ☐ Submit procedures for area surveys and contamination wipes including frequency and action levels.
  - ☐ Submit emergency policies/procedures including those incident response procedures (fire, theft, damage) and reporting requirements.
  - ☐ Add the State of Nevada emergency numbers and RSO contact information to postings and procedures.

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

- ☐ **Disposal Policy and Procedure:**
  - ☐ Commit transfer or disposal of sealed sources and radioactive waste will be conducted by either transferring it to a licensed radioactive waste broker or by transferring it to a specific licensee authorized to possess the material.
  - ☐ Commit to maintain records of receipt, transfer, and disposal of all materials disposed of under the license.
  - ☐ Commit that license termination will be conducted in compliance with NAC 459.200.

#### 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.

\_\_\_\_\_  
Printed Name Certifying Officer

\_\_\_\_\_  
Title

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date