

Radiation Producing Machine Medical and Veterinary Use Application Form

Complete sections 1-6 for all registrations. Accelerator applicants must also complete section 7 and therapy applicants must also complete section 8.

1) Licensed Practitioner of the Healing Arts:

Provide the name and license number of the licensed practitioner of the healing arts who will be responsible for the registration and use of the radiation machine including authorizing persons to receive radiation exposure pursuant to NAC 459.554(2). A "licensed practitioner of the healing arts" means a physician, homeopathic physician, osteopathic physician, licensed veterinarian, dentist, chiropractic physician, practitioner of Oriental medicine or podiatric physician, as those terms are defined or used, respectively, in NRS 630.014, 630A.050, 633.091 or 638.007 or chapter 631, 634, 634A or 635 of NRS. If the practice has more than one licensed practitioner, you only need to provide one.

Name as it appears on the license:

License Type:

License Number:

Compliance with NAC 459.554(2)(a) and 459.554(2)(b) is mandatory for all medical uses of radiation:

2. Persons must not be exposed to the useful beam except for the purposes of the healing arts where each exposure has been authorized by a licensed practitioner of the healing arts.

This provision specifically prohibits deliberate exposure for the following purposes:

(a) Exposure of a person for training, demonstration, or other purposes unless there are also healing arts requirements and proper prescription has been provided.

(b) Exposure of a person for the purpose of healing arts screening without prior written approval of the Division. Screening means an exposure of a person without a prior examination by a licensed practitioner.

2) Persons Engaging in Radiological Imaging or Radiation Therapy:

Persons who will be engaging in radiological imaging and/or radiation therapy (i.e., taking x-ray or exposing persons to radiation). If you have more than one person, you only need to list one.

Name as it appears on their license or authorization document:

Title:

License or authorization type:

License number:

If this is a new practice and you do not have this information, write none above. Note: you must update your application to include this information within 30 days after the practice engages in radiological imaging or radiation therapy.

3) Provide the Name of Service Providers:

List the name of person(s) who will be providing services for the x-ray machine including persons who sell, install, calibrate, perform QA checks, repair or maintain, etc..

Name of Service Provider:

Nevada's Service provider Registration number:

Add additional service providers as needed.

A list of registered service providers can be found on the Radiation Control Program (RCP) website at:

[https://dpbh.nv.gov/Reg/RPM/dta/Providers/Radiation_Producing_Machines_\(RPM\)_-_Providers/](https://dpbh.nv.gov/Reg/RPM/dta/Providers/Radiation_Producing_Machines_(RPM)_-_Providers/). If the service provider is not on the list referenced above, contact the RCP.

4) Healing Art Screening (see definition above):

Check one:

- I am requesting to use the radiation machine for screening.
- I am not requesting to use the radiation machine for screening.

If you are requesting to perform screening, attach a request that includes the screening criteria and supporting documentation for review and approval by the Division. Contact the RCP if you need additional information. You must not perform screening until you receive written approval from the Division.

5) Statewide Use:

The radiation machine will be use at multiple or various locations within the State.

Yes or No

If you will be using the radiation machine for statewide use. Commit to complying with the requirement below by checking the box:

The registrant shall notify the RCP no less than 24 hours prior to using the radiation machine at a location other than the storage location. If use locations are known ahead of time, the registrant can provide a monthly or weekly schedule. The notification must be made in writing on company letterhead. Written notifications can be submitted by facsimile or email, and shall include the date, times of use, address, radiation machine to be used, the physician responsible for prescribing the x-ray, and the person who will be performing

radiological imaging. The email address is: Radiation Control Program
radiationcontrolprogram@health.nv.gov
and the fax numbers are 775-687-7552 or 702-486-5024.

6) Mobile or Portable X-ray Equipment:

Portable or mobile equipment may be used only for examinations where it is impractical to transfer the patient to a stationary radiographic installation. If you are registering a mobile or portable x-ray machine please review our technical bulletin titled "Use Limitations for Portable and Mobile X-Ray Machines", which is available on our website at:
https://dpbh.nv.gov/Reg/RPM/dta/TechBulletin/Technical_Bulletins/.

If you are registering portable x-ray equipment which is hand-held please review the additional requirements in NAC 459.5595 and our technical bulletin titled "Illegal Handheld Dental and Veterinary Use Radiation Producing Machine Units" which is available on our website at: https://dpbh.nv.gov/Reg/RPM/dta/TechBulletin/Technical_Bulletins/.

7) Accelerators:

For new registrations complete Attachment, A of this application and submit the supporting documentation.

For renewals provide the name and the Nevada service provider registration number(s) for the service provider(s) who provide services for the accelerator including testing, maintaining, repairing, or deinstalling the accelerator. If this information is already entered above, you do not have to repeat the information here. Just state "see above".

Name of Service Provider:
Nevada's Service provider Registration number:
Add additional service providers as needed.

A list of registered service providers can be found on the RCP website at:
[https://dpbh.nv.gov/Reg/RPM/dta/Providers/Radiation_Producing_Machines_\(RPM\)_-_Providers/](https://dpbh.nv.gov/Reg/RPM/dta/Providers/Radiation_Producing_Machines_(RPM)_-_Providers/). If the service provider is not on the list referenced above, contact the RCP.

8) Therapeutic X-Ray Systems:

For new registrations complete Attachment B of this application and submit the supporting documentation.

For renewals provide the name(s) and the Nevada service provider registration number(s) for the service provider(s) who provide services for the therapeutic x-ray system including testing, maintaining, repairing, or deinstalling the accelerator. If this information is already entered above, you do not have to repeat the information here. Just state "see above".

Name of Service Provider:
Nevada's Service provider Registration number:
Add additional service providers as needed.

A list of registered service providers can be found on the RCP website at:
[https://dpbh.nv.gov/Reg/RPM/dta/Providers/Radiation_Producing_Machines_\(RPM\)-_Providers/](https://dpbh.nv.gov/Reg/RPM/dta/Providers/Radiation_Producing_Machines_(RPM)-_Providers/). If the service provider is not on the list referenced above, contact the RCP.

RADIATION PRODUCING MACHINE MEDICAL APPLICATION ATTACHMENT A PARTICLE ACCELERATORS

- 1) Apply for a radioactive materials license if the particle accelerator has the potential to generate particle beam energies exceeding 9 MeV.
- 2) Provide the name and the Nevada service provider registration number(s) for of the service provider(s) who performed the shielding design or calculations, who will install the accelerator, and/or will be providing services including testing, maintaining, repairing, or deinstalling an accelerator.
- 3) Provide documentation required by NAC 459.742(2) to include:
 - (a) Documentation to demonstrate the applicant is qualified by reason of training and experience to use the accelerator in question for the purpose requested in accordance with NAC 459.320 to 459.374, inclusive, 459.740 to 459.752, inclusive, and 459.780 to 459.794, inclusive, in such a manner as to minimize danger to public health and safety or property;
 - (b) A description of the proposed or existing equipment, facilities, operating and emergency procedures used to ensure adequate to protection of health and minimize the danger to public health and safety or property;
 - (c) Documentation to demonstrate the applicant's use of the accelerator will not be inimical to the health and safety of the public and that the applicant satisfies any applicable special requirement in subsection 3;
 - (d) Documentation to demonstrate the applicant or the applicant's staff has substantial experience in the use of particle accelerators and training sufficient for application to its intended uses;
 - (e) Documentation that the applicant has established a radiation safety committee to approve, in advance, proposals for uses of the particle accelerator, whenever deemed necessary by the Division. Include policies and procedures for the radiation safety committee;
 - (f) Documentation to demonstrate the applicant has an adequate training program for operators of the particle accelerator.

If the above information was previously submitted to the RCP, you do not have to resubmit the same information twice. Instead provide the registration number for the accelerator that the information was previously submitted or approved and provide any updated information.

- 4) For the use of particle accelerators in the healing arts, provide documentation required by NAC 459.742(3) to include:

(a) Documentation to demonstrate the applicant has appointed a medical committee of at least three members to evaluate all proposals for research, diagnostic and therapeutic use of the particle accelerator whenever deemed necessary by the Division. Membership of the committee should include physician's expert in internal medicine, hematology, therapeutic radiology and a person experienced in depth dose calculations and protection against radiation. Contact the RCP if you have questions regarding the requirement for a medical committee.

(b) Documentation to demonstrate the persons designated on the application as the users have substantial training and experience in deep therapy techniques or in the use of particle accelerators to treat humans.

(c) Documentation to demonstrate any person designated on the application as the user is a physician.

If the above information was previously submitted to the RCP, you do not have to resubmit the same information twice. Instead provide the registration number for the accelerator that the information was previously submitted or approved and provide any updated information.

Below are the NAC459 requirements referenced above:

NAC 459.742 Requirements for registration; license required under certain circumstances.
(NRS 459.201)

1. No person may receive, possess, use, transfer, own or acquire a particle accelerator except as authorized in a registration issued pursuant to NAC 459.010 to 459.950, inclusive, or as otherwise provided for in those sections. The general procedures for registration of particle accelerator facilities are included in NAC 459.150 to 459.166, inclusive. Notwithstanding the provisions of this subsection, a person must apply for a license to possess radioactive materials before receiving, possessing, using, transferring, owning or acquiring a particle accelerator whose particle beam energies have the potential for exceeding 9 MeV.

2. In addition to the requirements of NAC 459.150 to 459.166, inclusive, a registration application for use of a particle accelerator may be approved only if the Division determines that:

(a) The applicant is qualified by reason of training and experience to use the accelerator in question for the purpose requested in accordance with NAC 459.320 to 459.374, inclusive, 459.740 to 459.752, inclusive, and 459.780 to 459.794, inclusive, in such a manner as to minimize danger to public health and safety or property;

(b) The applicant's proposed or existing equipment, facilities, operating and emergency procedures are adequate to protect health and minimize danger to public health and safety or property;

(c) The issuance of the registration will not be inimical to the health and safety of the public and the applicant satisfies any applicable special requirement in subsection 3;

(d) The applicant or the applicant's staff has substantial experience in the use of particle accelerators and training sufficient for application to its intended uses;

(e) The applicant has established a radiation safety committee to approve, in advance, proposals for uses of the particle accelerator, whenever deemed necessary by the Division; and

(f) The applicant has an adequate training program for operators of the particle accelerator.

3. In addition to the requirements in NAC 459.150 to 459.166, inclusive, a registration for use of a particle accelerator in the healing arts will be issued only if the following requirements are met:

(a) The applicant has appointed a medical committee of at least three members to evaluate all proposals for research, diagnostic and therapeutic use of the particle accelerator whenever deemed necessary by the Division. Membership of the committee should include physician's expert in internal medicine, hematology, therapeutic radiology and a person experienced in depth dose calculations and protection against radiation.

(b) The persons designated on the application as the users have substantial training and experience in deep therapy techniques or in the use of particle accelerators to treat humans.

(c) Any person designated on the application as the user is a physician.

4. In addition to the requirements set forth in this section, if, as required pursuant to subsection 1, the application is for a license for the use of a particle accelerator whose particle beam energies have the potential for exceeding 9 MeV, the applicant must appoint a radiation safety officer who satisfies the training and experience requirements set forth in NAC 459.3154 to implement and oversee a radiation safety program for the use of the particle accelerator.

[Bd. of Health, Radiation Control Reg. §§ 9.2-9.2.3.3, eff. 2-28-80]—(NAC A 1-18-94; R084-98, 1-26-99; R149-07, 1-30-2008; R144-13, 10-13-2016)

RADIATION PRODUCING MACHINE MEDICAL APPLICATION ATTACHMENT B THERAPEUTIC X-RAY SYSTEMS

- 1) Apply for a radioactive materials license if the therapeutic X-ray System has the potential to generate particle beam energies exceeding 9 MeV.
- 2) Provide the name and the Nevada service provider registration number(s) for of the service provider(s) who performed the shielding design or calculations, who will install the therapeutic x-ray system, and/or will be providing services including testing, maintaining, repairing, or deinstalling a therapeutic x-ray system.
- 3) Provide documentation required by NAC 459.2921(1) to include:
 - (a) General information concerning the facility, including, without limitation:
 - (1) The legal name of the facility;
 - (2) A telephone number and street address for the facility;
 - (3) The name, address, telephone number and registration or license number of the authorized medical physicist for electronic brachytherapy responsible for the preparation of the shielding plan;
 - (4) The name and telephone number of the facility supervisor; and
 - (5) A statement indicating whether or not the installation is for a new facility or a modification to an existing facility;
 - (b) Proof that a primary protective barrier covers all wall, floor and ceiling areas struck by the useful beam of the system;
 - (c) Proof that a secondary protective barrier covers all wall, floor and ceiling areas which are not covered by a primary protective barrier; and
 - (d) Information regarding the type and thickness of the portable shielding used to ensure compliance with NAC 459.400 to 459.624, inclusive, and a procedure which demonstrates the use of the portable shielding before treatment.
- 4) Provide documentation that each therapeutic X-ray system has such primary and secondary protective barriers as are required to comply with the provisions of NAC 459.400 to 459.624, inclusive.
- 5) A description of any portable shielding used to comply with the provisions of NAC 459.400 to 459.624, inclusive.

Below are the NAC 459 requirements referenced above:

NAC 459.5921 Therapeutic X-ray systems: Submission of certain information to Division before installation of certain devices. (NRS 459.201)

1. Before a facility may install a new therapeutic X-ray device, or installs a therapeutic X-ray device with a higher energy output into an existing room, the facility must submit the following information for approval by the Division:

- (a) General information concerning the facility, including, without limitation:
 - (1) The legal name of the facility;
 - (2) A telephone number and street address for the facility;
 - (3) The name, address, telephone number and registration or license number of the authorized medical physicist for electronic brachytherapy responsible for the preparation of the shielding plan;
 - (4) The name and telephone number of the facility supervisor; and
 - (5) A statement indicating whether or not the installation is for a new facility or a modification to an existing facility;
- (b) Proof that a primary protective barrier covers all wall, floor and ceiling areas struck by the useful beam of the system;
- (c) Proof that a secondary protective barrier covers all wall, floor and ceiling areas which are not covered by a primary protective barrier; and
- (d) Information regarding the type and thickness of the portable shielding used to ensure compliance with NAC 459.400 to 459.624, inclusive, and a procedure which demonstrates the use of the portable shielding before treatment.

2. Each therapeutic X-ray system must have such primary and secondary protective barriers as are required to comply with the provisions of NAC 459.400 to 459.624, inclusive.

3. Portable shielding may be used to comply with the provisions of NAC 459.400 to 459.624, inclusive.