not	VETERINARY THERAPEUTIC RADIATION MACHINES  ys: e licensee shall ensure that radiation shielding surveys of all new facilities, and existing facilities previously surveyed are performed with an operable radiation measurement survey instrument
(a) Protection Survey  (1) The	VETERINARY THERAPEUTIC RADIATION MACHINES  ys: e licensee shall ensure that radiation shielding surveys of all new facilities, and existing facilities previously surveyed are performed with an operable radiation measurement survey instrument
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not	previously surveyed are performed with an operable radiation measurement survey instrument
cal	
	ibrated in accordance with Rule .2008 of this Section. The radiation protection survey shall be
<u>per</u>	formed by, or under the direction of, an Authorized Medical Physicist or a qualified expert, and
sha	Il verify that, with the therapeutic radiation machine in a "BEAM-ON" condition:
<u>(A)</u>	Radiation levels in restricted areas are not likely to cause personnel exposures more than
	the limits specified in Rule .1601(a)(8) of this Chapter; and
<u>(B)</u>	Radiation levels in unrestricted areas do not exceed the limits specified in Rule
	.1601(a)(15) of this Chapter.
(2) In:	addition to the requirements of Subparagraph (a)(1) of this Rule, a radiation protection survey
sha	ll also be performed:
<u>(A)</u>	After making any change in the treatment room shielding;
<u>(B)</u>	After making any change in the location of the therapeutic radiation machine within the
	treatment room;
<u>(C)</u>	After relocating the therapeutic radiation machine;
<u>(D)</u>	After changes in occupancy of surrounding areas; or
<u>(E)</u>	Before using the therapeutic radiation machine in a manner that could result in increased
	radiation levels in areas outside the external beam radiation therapy treatment room.
(3) The	e survey record shall include: the date of the measurements; the reason the survey is required; the
<u>ma</u>	nufacturer's name; model number and serial number of the therapeutic radiation machine; the
<u>ins</u>	truments used to measure radiation levels; a plan of the areas surrounding the treatment room
<u>tha</u>	t were surveyed; the measured dose rate at several points in each area expressed in microsieverts
<u>or 1</u>	millirems per hour; the calculated maximum level of radiation over a period of one week for each
<u>res</u>	tricted and unrestricted area; and the signature of the individual responsible for conducting the
sur	vey:
(4) If t	he results of the surveys required by this Paragraph indicate any radiation levels in excess of the
<u>lim</u>	its specified in Parts (1)(A) or (B) of this Paragraph, the licensee shall disable the machine from
use	e, label clearly, and not use the unit:
( <u>A</u> )	Except as may be necessary to repair, replace, or test the therapeutic radiation machine, the
	therapeutic radiation machine shielding, or the treatment room shielding; or
<u>(B)</u>	Until the licensee has received a specific exemption from the Agency.
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1	(b) Modification of Radiation Therapy Unit or Room Before Beginning a Treatment Program. If the survey required
2	by Paragraph (a) of this rule indicates that an individual in an unrestricted area may be exposed to levels of radiation
3	greater than those permitted by Rule .1601 of this Chapter, before beginning the treatment program the licensee shall:
4	(1) Either equip the unit with beam direction interlocks or add additional radiation shielding to ensure
5	compliance with Rule .1601of this Chapter;
6	(2) Perform the survey required by Paragraph (a) of this Rule again; and
7	(3) Include in the report required by Paragraph (d) of this Rule the results of the initial survey, a
8	description of the modification made to comply with Subparagraph (b)(1) of this Rule, and the
9	results of the second survey; or
10	(4) Receive an amended license issued by the agency that authorizes radiation levels in unrestricted
11	areas greater than those permitted by Rule .1601 of this Chapter.
12	(c) Radiation Measuring Equipment. The licensee shall have, when required, appropriate and operable radiation
13	measuring equipment available for use and calibrated in accordance with Rule .2008 of this Section. Radiation
14	measuring equipment includes, but is not limited to, dosimetry systems, survey instruments, and other radiation
15	measuring devices used in planning, guiding, and administering radiation.
16	(d) Reports of External Beam Radiation Therapy Surveys and Measurements. The licensee for any therapeutic
17	radiation machine subject to Rules within this subpart shall furnish a copy of the records required in Paragraphs (a)
18	and (b) of this Rule to the Agency within 30 days following completion of the action that initiated the record
19	requirement.
20	
21	History Note: Authority G.S. 104E-7;
22	Eff. October 1, 2025.