10A NCAC 15	.2004 is proposed for adoption as follows:
10A NCAC 15	.2004 GENERAL TECHNICAL REQUIREMENTS FOR FACILITIES USING
	VETERINARY THERAPEUTIC RADIATION MACHINES
(a) Protection	Surveys:
<u>(1)</u>	The licensee shall ensure that radiation shielding surveys of all new facilities, and existing facilities
	not previously surveyed are performed with an operable radiation measurement survey instrument
	calibrated in accordance with Rule .2008 of this Section. The radiation protection survey shall be
	performed by, or under the direction of, an Authorized Medical Physicist or a qualified expert, and
	shall verify that, with the therapeutic radiation machine in a "BEAM-ON" condition:
	(A) 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
	(B) 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
	shall also be performed:
	(A) After making any change in the treatment room shielding:
	(B) After making any change in the location of the therapeutic radiation machine within the
	treatment room;
	(C) After relocating the therapeutic radiation machine;
	(D) After changes in occupancy of surrounding areas; or
	(E) 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 survey record shall include: the date of the measurements; the reason the survey is required; the
	manufacturer's name; model number and serial number of the therapeutic radiation machine; the
	instruments used to measure radiation levels; a plan of the areas surrounding the treatment room
	that were surveyed; the measured dose rate at several points in each area expressed in microsieverts
	or millirems per hour; the calculated maximum level of radiation over a period of one week for each
	restricted and unrestricted area; and the signature of the individual responsible for conducting the
	survey;
<u>(4)</u>	If the results of the surveys required by this Paragraph indicate any radiation levels in excess of the
	limits specified in Parts (A) or (B) of Subparagraph (a)(1), the licensee shall disable the machine
	from use, label clearly, and not use the unit:
	(A) 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
	(B) Until the licensee has received a specific exemption from the Agency.

1	(b) Modification of Radiation Therapy Unit or Room Before Beginning a Treatment Program. If the survey required		
2	by Subparagrap	h (a) of this rule indicates that an individual in an unrestricted area may be exposed to levels of	
3	radiation greater	than those permitted by Rule .1601 of this Chapter, before beginning the treatment program the	
4	licensee shall:		
5	(1)	Either equip the unit with beam direction interlocks or add additional radiation shielding to ensure	
6		compliance with Rule .1601of this Chapter;	
7	(2)	Perform the survey required by Subparagraph (a) of this rule again; and	
8	<u>(3)</u>	Include in the report required by Subparagraph (d) of this rule the results of the initial survey, a	
9		description of the modification made to comply with Subparagraph (b)(1) of this rule, and the results	
10		of the second survey; or	
11	<u>(4)</u>	Receive an amended license issued by the agency that authorizes radiation levels in unrestricted	
12		areas greater than those permitted by Rule .1601 of this Chapter.	
13	(c) Radiation M	Measuring Equipment. The licensee shall have, when required, appropriate and operable radiation	
14	measuring equip	ment available for use and calibrated in accordance with Rule .2008. Radiation measuring equipment	
15	includes, but is not limited to, dosimetry systems, survey instruments, and other radiation measuring devices used in		
16	planning, guiding, and administering radiation.		
17	(d) Reports of	External Beam Radiation Therapy Surveys and Measurements. The licensee for any therapeutic	
18	radiation machin	ne subject to Rules within this subpart shall furnish a copy of the records required in Subparagraphs	
19	(a) and (b) of this	s rule to the Agency within thirty (30) days following completion of the action that initiated the record	
20	requirement.		
21			
22	<u>History Note:</u>	Authority G.S. 104E-7;	
23		Eff. October 1, 2025.	