1	10A NCAC 15 .1904 is proposed for adoption as follows:						
2							
3	10A NCAC 15 .190	4 GENERAL	TECHNICAL	REQUIREMENTS	FOR	FACILITIES	USING
4		THERAPEU	TIC RADIATIO	N MACHINES			
5	(a) <u>Protection Surve</u>	ys:					
6	<u>(1) Th</u>	e licensee shall ensu	re that radiation s	hielding surveys of all r	new facil	lities, and existing	g facilities
7	<u>no</u>	not previously surveyed are performed with an operable radiation measurement survey instrument					
8	<u>ca</u>	calibrated in accordance with Rule .1908 of this Chapter. The radiation protection survey shall be					
9	<u>pe</u>	performed by, or under the direction of, an Authorized Medical Physicist or a qualified expert and					
10	sha	shall verify that, with the therapeutic radiation machine in a "BEAM-ON" condition:					
11	<u>(A</u>	<u>)</u> Radiation leve	els in restricted ar	reas are not likely to car	use pers	onnel exposures:	more than
12		the limits spec	cified in Rule .160	01(a)(8) of this Chapter:	and		
13	<u>(B</u>) Radiation lev	vels in unrestrict	ed areas do not exce	eed the	limits specified	l in Rule
14		.1601(a)(15) o	of this Chapter.				
15	(2) In	In addition to the requirements of Subparagraph (a)(1) of this Rule, a radiation protection survey					
16	sha	shall also be performed:					
17	(A	After making	any change in the	treatment room shieldi	ng;		
18	(B) After making	any change in th	e location of the therap	eutic ra	diation machine	within the
19		treatment room	m;				
20	(C) After relocation	ng the therapeutic	radiation machine;			
21	(D	After changes	in occupancy of	surrounding areas; or			
22	(E)) Before using	the therapeutic ra	diation machine in a ma	anner th	at could result in	increased
23		radiation leve	ls in areas outside	the external beam radio	ation the	rapy treatment ro	om.
24	(3) Th	The survey record shall include: the date of the measurements; the reason the survey is required; the					
25	ma	manufacturer's name; model number and serial number of the therapeutic radiation machine; the					
26	ins	strument(s) used to r	measure radiation	levels; a plan of the are	eas surro	ounding the treatn	nent room
27	tha	at were surveyed; the	e measured dose ra	ate at several points in e	ach area	expressed in mic	rosieverts
28	or	millirems per hour;	the calculated ma	ximum level of radiatio	n over a	period of one (1)) week for
29	eac	ch restricted and unr	estricted area; and	I the signature of the in-	dividual	responsible for c	onducting
30	the	e survey;					
31	<u>(4) If t</u>	the results of the sur	veys required by t	his Paragraph indicate a	any radia	ation levels in exc	cess of the
32	<u>lin</u>	limits specified in Parts (A) or (B) of Subparagraph(a)(1), the licensee shall disable the machine					
33	fro	from use, label clearly, and not use the unit:					
34	<u>(A</u>	.) Except as may	y be necessary to r	epair, replace, or test the	e therape	eutic radiation ma	schine, the
35		therapeutic ra	diation machine s	hielding, or the treatme	nt room	shielding; or	
36	<u>(B</u>) Until the licer	nsee has received	a specific exemption from	om the A	gency.	

1	(b) Modification of Radiation Therapy Unit or Room Before Beginning a Treatment Program. If the survey required				
2	by Subparagraph (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(a)(15) of this Chapter, before beginning the treatment program				
4	the licensee shall:				
5	(1) Either equip the unit with beam direction interlocks or add additional radiation shielding to ensure				
6	compliance with Paragraph Rule .1601(a)(15) of this Chapter;				
7	(2) Perform the survey required by Subparagraph (a)(1) of this Rule again; and				
8	(3) 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 Paragraph, and the				
10	results of the second survey; or				
11	(4) Request and receive a license amendment under authorizing radiation levels in unrestricted areas				
12	greater than those permitted by Paragraph Rule .1601(a)(15) of this Chapter.				
13	(c) Radiation Measuring Equipment. The licensee shall have, when required, appropriate and operable radiation				
14	measuring equipment available for use and calibrated in accordance with Rule .0927. 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 machine subject to Rules within this subpart shall furnish a copy of the records required in Subparagraphs				
19	(a) and (b) of this rule to the Agency within thirty (30) days following completion of the action that initiated the record				
20	requirement.				
21					
22	History Note: Authority G.S. 104E-7;				
23	Eff. October 1, 2025.				