I	10A NCAC 15 .190	4 is adopted as publish	hed 1 39:19 NCR	1225-1262 as follows:			
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3	10A NCAC 15 .190	4 GENERAL	TECHNICAL	REQUIREMENTS	FOR	<b>FACILITIES</b>	USING
4		THERAPEUT	ΓIC RADIATIO	N MACHINES			
5	(a) <u>Protection Surve</u>	eys:					
6	<u>(1) Th</u>	ne licensee shall ensur	e that radiation sl	hielding surveys of all 1	new facil	ities, and existing	<u>g facilities</u>
7	nc	ot previously surveyed	l are performed v	vith an operable radiati	on meas	urement survey i	nstrument
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	<u>sh</u>	shall verify that, with the therapeutic radiation machine in a "BEAM-ON" condition:					
11	<u>(A</u>	(A) Radiation leve	ls in restricted ar	eas are not likely to ca	use perso	onnel exposures 1	more than
12		the limits speci	ified in Rule .160	1(a)(8) of this Chapter	; and		
13	<u>(B</u>	Radiation leve	els in unrestrict	ed areas do not exc	eed the	limits specified	in Rule
14		.1601(a)(15) of	f this Chapter.				
15	(2) In	In addition to the requirements of Subparagraph (a)(1) of this Rule, a radiation protection survey					
16	<u>sh</u>	shall also be performed:					
17	(A	Λ) After making ε	any change in the	treatment room shieldi	ng;		
18	(B	3) After making a	any change in the	e location of the therap	eutic rac	liation machine	within the
19		treatment room	ı;				
20	(C	C) After relocatin	g the therapeutic	radiation machine;			
21	(Σ	) After changes	in occupancy of s	surrounding areas; or			
22	(E	Before using the	he therapeutic rac	diation machine in a m	anner tha	at could result in	increased
23		radiation levels	s in areas outside	the external beam radi	ation the	rapy treatment ro	om.
24	(3) Th	ne survey record shall	include: the date	of the measurements; the	he reason	the survey is rec	luired; the
25	m	anufacturer's name; n	nodel number an	d serial number of the	therapeu	ıtic radiation ma	chine; the
26	ins	strument(s) used to m	easure radiation	levels; a plan of the are	eas surro	unding the treatn	nent room
27	th	at were surveyed; the	measured dose ra	te at several points in e	ach area	expressed in mic	rosieverts
28	or	millirems per hour; the	he calculated max	ximum level of radiation	n over a	period of one (1)	) week for
29	ea	ch restricted and unre	stricted area; and	the signature of the in	dividual	responsible for c	onducting
30	the	e survey;					
31	<u>(4) If</u>	the results of the surv	eys required by t	his Paragraph indicate	any radia	tion levels in exc	ess of the
32	<u>lir</u>	limits specified in Parts (A) or (B) of Subparagraph(a)(1), the licensee shall disable the machine					
33	<u>fro</u>	from use, label clearly, and not use the unit:					
34	<u>(A</u>	(A) Except as may	be necessary to r	epair, replace, or test th	e therape	utic radiation ma	chine, the
35		therapeutic rad	liation machine sl	nielding, or the treatme	nt room	shielding; or	
36	<u>(B</u>	B) Until the licens	see has received a	a specific exemption fro	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.].1908. Radiation measuring				
15	equipment includes, but is not limited to, dosimetry systems, survey instruments, and other radiation measuring				
16	devices used in 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.				