1	10A NCAC 15 .1903 is adopted as published in 39:19 NCR 1225-1262 as follows:		
2			
3	10A NCAC 15 .190		
4		THERAPEUTIC RADIATION MACHINES	
5	(a) The licensee sh	all be responsible for directing the operation of the therapeutic radiation machines that have been	
6	licensed with the A	gency. The licensee or the licensee's agent shall ensure that the requirements of this Section are	
7	met in the operation	n of the therapeutic radiation machines.	
8	(b) A therapeutic radiation machine that does not meet the provisions of these regulations shall not be used for		
9	irradiation of patients or human research subjects.		
10	(c) Training for Therapeutic Radiation Machine Authorized Users: The licensee for any therapeutic radiation machine		
11	subject to Rules wit	thin this subpart shall require the authorized user to be a physician who:	
12	<u>(1) H</u>	<u>Iolds Certification in General Radiology issued by the American Board of Radiology of a physician</u>	
13	w	ho confines their professional practice to radiation oncology or certification in Radiation Oncology	
14	<u>01</u>	r Therapeutic Radiology issued by the American Board of Radiology, the American Osteopathic	
15	<u>B</u>	Board of Radiology, the Royal College of Physicians and Surgeons of Canada, or the Collège des	
16	$\underline{\mathbf{N}}$	<u>lédecins du Québec; or</u>	
17	(2) H	las satisfactory completion of a radiation oncology residency program approved by the American	
18	<u>C</u>	Council of Graduate Medicine Education, the Royal College of Physicians and Surgeons of Canada,	
19	<u>th</u>	ne Collège des Médecins du Québec, or the American Osteopathic Association. Radiation	
20	<u>01</u>	ncologists who are eligible for certification by one of the certifying organizations listed in	
21	<u>S</u> 1	ubparagraph (c)(1) of this Paragraph but not yet certified by the date of initial employment shall	
22	<u>b</u>	e certified by one of the certifying organizations listed in Subparagraph (c)(1) of this Paragraph	
23	w	vithin 6 years of initial certification eligibility; and,	
24	(3) B	e an individual listed on an Agency or an Agreement State medical accelerator license as an	
25	<u>aı</u>	uthorized user on or before the effective date of this Rule. Individuals listed on an Agency or	
26	<u>A</u>	greement State medical accelerator license as Authorized Users need not comply with	
27	<u>S</u> :	ubparagraphs (c)(1) through (c)(2) of this Paragraph, except they must meet the training	
28	<u>re</u>	equirements defined in this Rule for any uses for which they were not authorized on or before the	
29	<u>e1</u>	ffective date of this Rule, and shall document 75 hours of continuing education every three (3)	
30	<u>y</u> 6	ears that is acceptable to the certifying organizations identified in (c)(1) through (c)(2).	
31	(d) Training for Au	uthorized Medical Physicist: The licensee for any therapeutic radiation machine subject to Rules	
32	within this Section	shall require the Authorized Medical Physicist to:	
33	<u>(1)</u> B	e certified and maintaining certification by the American Board of Radiology in:	
34	<u>(4</u>	A) Therapeutic radiological physics; or	
35	<u>(I</u>	B) Therapeutic medical physics; or	
36	<u>(2)</u> B	te certified and maintaining certification by the American Board of Medical Physics in Radiation	
37	<u>O</u>	Oncology Physics; or	

1	(3)	Be certified and maintaining certification by the Canadian College of Medical Physics in Radiation
2		Oncology Physics; or,
3	(4)	Be an individual listed on an Agency or an Agreement State medical accelerator license as an
4		authorized medical physicist on or before the effective date of this Rule. Individuals listed on an
5		Agency or Agreement State medical accelerator license need not comply with Subparagraphs (d)(1)
6		through (d)(3) of this Paragraph, except they must meet the training requirements defined in other
7		Paragraphs of this Rule for any uses for which they were not authorized on or before the effective
8		date of this Rule, and shall document 75 hours of accredited continuing education every three (3)
9		years that is acceptable to the certifying organizations identified in (d)(1) through (d)(3).
10	(e) Training for	Therapeutic Radiation Machine Radiation Safety Officer: The licensee for any therapeutic radiation
11	machine subject	to Rules within this subpart shall require the Radiation Safety Officer:
12	(1)	Be listed as an Authorized User or Authorized Medical Physicist on the license; or,
13	(2)	Be certified by the American Board of Health Physics in Health Physics; or,
14	(3)	Be certified by the American Board of Science in Nuclear Medicine in Radiation Protection; or,
15	(4)	Be certified by the American Board of Radiology in:
16		(A) Diagnostic Radiologic Physics;
17		(B) Diagnostic Medical Physics;
18		(C) Medical Nuclear Physics;
19		(D) Nuclear Medical Physics; or,
20	(5)	Be certified by the American Board of Medical Physics in Medical Health Physics; or,
21	(6)	Be an individual listed on an Agency or an Agreement State medical accelerator license as a
22		Therapeutic Radiation Machine Radiation Safety Officer on or before the effective date of this Rule.
23		Individuals listed on an Agency or Agreement State medical accelerator on or before the effective
24		date of this Rule need not comply with Subparagraphs (e)(1) through (e)(5) of this Paragraph, except
25		they must meet the training requirements in radiation safety, regulatory issues, and emergency
26		procedures for the types of use for which they were not authorized on or before the effective date of
27		this Rule, and shall document 60 hours of accredited continuing education every three (3) years that
28		is acceptable to the certifying organizations identified in (e)(2) through (e)(5).
29	(f) Qualification	s of Operators:
30	(1)	Direct Human Use - Operators: Individuals who will be operating a therapeutic radiation machine
31		on humans or irradiation of products to be used by humans, shall:
32		(A) Be a registered Radiation Therapy Technologists by the American Registry of Radiologic
33		Technologists; or,
34		(B) Be American Registry of Radiologic Technologists registry-eligible as Radiation Therapy
35		Technologists provided the individual is under the personal supervision of an individual
36		that meets the requirements of Subparagraph (A) of this Paragraph; and,

1		(C) Successfully complete a licensee-developed initial and ongoing competency program in
2		the use of the therapeutic radiation machine as well as other ancillary systems used by the
3		operator in medical use applications. This competency program shall be documented, and
4		records shall include the list of topics evaluated, and each individual's completion of the
5		competency program shall be approved, signed, and dated. Records required by this
6		Subparagraph shall be maintained for a minimum of three years.
7	(2)	Non-direct Human Use - Operators: Individuals who will be operating a therapeutic radiation
8		machine for the purposes of quality assurance and/or non-human research, shall:
9		A) Comply with Paragraph (d) of this Rule; or,
10		B) Comply with Subparagraph (1)(A) of this Paragraph; or,
11		C) Comply with the requirements of Section .0900 of this Chapter; and,
12		(D) Successfully complete a licensee-developed initial and ongoing competency program in
13		the use of the therapeutic radiation machine as well as other ancillary systems used by the
14		operator for quality assurance or non-human research. The competency program shall be
15		documented, and records shall include the list of topics evaluated, and each individual's
16		completion of the competency program shall be approved, signed, and dated. Records
17		required by this subparagraph shall be maintained for a minimum of three years.
18	(g) Documented	d safety procedures shall be developed by an Authorized Medical Physicist and shall be readily
19	accessible in the	control area of a therapeutic radiation machine, including any restrictions required for the safe
20	operation of the	therapeutic radiation machine. The operator shall be able to demonstrate familiarity with these rules.
21	(h) Individuals s	hall not be exposed to the useful beam except for medical therapy purposes and unless such exposure
22	has been ordered	in writing by a therapeutic radiation machine authorized user. This provision specifically prohibits
23	deliberate exposi	are of an individual for training, demonstration, or other non-healing-arts purposes.
24	(i) Visiting Auth	orized User: A licensee may permit any physician to act as a visiting authorized user under the term
25	of the licensee's	license for a total of sixty (60) days per calendar year under the following conditions:
26	(1)	The visiting authorized user has the prior approval of the licensee's facility management; and
27	<u>(2)</u>	The visiting authorized user meets the requirements established for authorized user(s) in
28		Subparagraph (c) of this Rule; and
29	<u>(3)</u>	The licensee shall maintain copies of the documentation of the approval and that the visiting
30		authorized user met the requirements of Subparagraph (i)(2) of this Paragraph for three (3) years
31		from the date of the last visit.
32	(j) Visiting Auth	orized Medical Physicist: A licensee may permit any medical physicist to act as a visiting authorized
33	medical physicis	t under the term of the licensee's license for a total of sixty (60) days per calendar year under the
34	following condit	ions:
35	<u>(1)</u>	The visiting qualified medical physicist has the prior approval of the licensee's facility management;
36		<u>and</u>

1	<u>(2) 11</u>	ie visiting authorized medicai physicist meets the requirements established for [authorized user(s)]	
2	<u>au</u>	thorized medical physicists in Subparagraphs (d) of this Rule; and	
3	(3) Th	ne licensee shall maintain copies of the documentation of the approval and proof that the visiting	
4	<u>au</u>	thorized medical physicist met the requirements of Subparagraph (j)(2) of this Rule for three (3)	
5	<u>ye</u>	ears from the date of the last visit.	
6	(k) All individuals	associated with the operation of a therapeutic radiation machine shall be instructed in and shall	
7	comply with the pro	ovisions of the licensee's quality management program. In addition to the requirements of this	
8	Section, these indivi	duals are also subject to the requirements of Rules .1601(a)(8), (a)(24) and (a)(51) of this Chapter.	
9	(l) Unless otherwis	e specified by license condition, whenever patients or human research subjects are being treated	
10	by a therapeutic rad	iation machine, a physician shall be accessible. This physician does not need to be an authorized	
11	user.		
12	(m) A licensee that	permits supervised activities within this subpart is responsible for the acts and omissions of the	
13	supervised individual.		
14	(n) Information and Maintenance Record and Associated Information: The licensee shall maintain the following		
15	information in a separate file or package for each therapeutic radiation machine for inspection by the Agency:		
16	<u>(1) Re</u>	eport of acceptance testing and commissioning;	
17	(2) Re	ecords of all surveys, calibrations, and periodic quality assurance checks of the therapeutic	
18	<u>ra</u>	diation machine required by this Section, as well as the names of persons who performed such	
19	ac	tivities;	
20	(3) Re	ecords of maintenance and/or modifications performed on the therapeutic radiation machine after	
21	<u>th</u>	e effective date of this Rule as well as the names of persons who performed such services;	
22	(4) A:	ssessments performed by an Authorized Medical Physicist, prior to the return of a therapeutic	
23	<u>ra</u>	diation machine to clinical use, after significant service, repair, or upgrade that may result in	
24	<u>va</u>	riances of machine functions more than the thresholds established within the quality management	
25	<u>pr</u>	ogram.	
26	(o) Records Retention: All records required by this Section shall be retained until disposal is authorized by the		
27	Agency unless anoth	ner retention period is specifically authorized in this Section.	
28			
29	History Note: Au	uthority G.S. 104E-7;	
30	<u>E</u> f	<u> G. October 1, 2025.</u>	