

1 10A NCAC 15 .0501 is proposed for amendment as follows:

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3 **SECTION .0500 - SAFETY REQUIREMENTS FOR INDUSTRIAL RADIOGRAPHY OPERATIONS X-**
4 **RAY MACHINES**

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6 Codifier's Note: 10 NCAC 03G .2600 was transferred to 15A NCAC 11 .0500 effective January 4, 1990. Recodification
7 pursuant to G.S. 143B-279.3.

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9 **10A NCAC 15 .0501 PURPOSE AND SCOPE INDUSTRIAL RADIOGRAPHIC OPERATIONS OF**
10 **ELECTRONIC RADIATION MACHINES FOR NON-HUMAN USE**

11 ~~(a) The rules in this Section establish radiation safety requirements for persons utilizing sources of radiation for~~
12 ~~industrial radiography. The requirements of this Section are in addition to and not in substitution for the other~~
13 ~~requirements of this Chapter.~~

14 ~~(b) The rules in this Section apply to all licensees or registrants who use sources of radiation for industrial radiography;~~
15 ~~provided, however that nothing in this Section shall apply to the use of sources of radiation in the healing arts.~~

16 (a) Persons conducting industrial radiographic operations using radiation machines shall comply with the following
17 provisions of 10 CFR 34, which are hereby incorporated by reference including subsequent amendments and editions,
18 except references to and the requirements of 10 CFR 30, 37, 71, 150 and 171 contained therein shall not apply:

19 (1) 10 CFR 34.1, "Purpose and Scope;"

20 (2) 10 CFR 34.3, "Definitions;" except that the definition of becquerel, control (drive) cable, control
21 drive mechanism, control tube, exposure head, field station, guide tube (projection sheath), S-tube,
22 source assembly, source changer, and storage container, shall not apply. Prior to using industrial
23 radiography all persons shall be registered in accordance with Rules in Section .0200 of this Chapter.
24 The following terms apply:

25 (A) "agreement state" shall have the same meaning as "agency" as defined in G.S 104E-5(2);

26 (B) "license" shall have the same meaning as "registration" as defined in Rule .0104(131) of
27 this Chapter;

28 (C) "licensed" shall have the same meaning as "registered" pursuant to the Rules in Section
29 .0200 of this Chapter;

30 (D) "licensee" shall have the same meaning as "registrant" as defined in Rule.0104(130) of this
31 Chapter;

32 (E) "radiation source" shall have the same meaning as "radiation machine" in G.S. 104E-5(13);

33 (F) "radiographic exposure device" shall have the same meaning as "radiation machine" in G.S
34 104E-5(13); and

35 (G) "sealed source" shall have the same meaning as "radiation machine" in G.S 104E-5(13).

36 (3) 10 CFR 34.25, "Radiation survey instruments." The term "radioactive material" used in 10 CFR
37 34.25 shall have the same meaning as "radiation machine" in G.S. 104E-5(13);

- 1 (4) 10 CFR 34.31(a), (b)(1), and (c), “Inspection and maintenance of radiographic exposure devices,
2 transport and storage containers, associated equipment, source changers, and survey instruments;”
3 (5) 10 CFR 34.33, “Permanent radiographic installations.” The term “radioactive source” used in 10
4 CFR 34.33 shall have the same meaning as “radiation machine” in G.S. 104E-5(13);
5 (6) 10 CFR 34.35(c), “Labeling, storage, and transportation;”
6 (7) 10 CFR 34.41, “Conducting industrial radiographic operations;”
7 (8) 10 CFR 34.42, “Radiation Safety Officer for industrial radiograph;”
8 (9) 10 CFR 34.43, “Training;”
9 (10) 10 CFR 34.45(a)(1) through (a)(3), (a)(5), (a)(7) through (a)(11), (a)(13), and (b), “Operating and
10 emergency procedure;”
11 (11) 10 CFR 34.46, “Supervision of radiographers’ assistants;”
12 (12) 10 CFR 34.47, “Personnel monitoring;”
13 (13) 10 CFR 34.49, “Radiation surveys;”
14 (14) 10 CFR 34.51, “Surveillance;”
15 (15) 10 CFR 34.53, “Posting;”
16 (16) 10 CFR 34.61, “Records of the specific license for industrial radiography;”
17 (17) 10 CFR 34.65, “Records of radiation survey instrument;”
18 (18) 10 CFR 34.71, “Utilization logs;”
19 (19) 10 CFR 34.73, “Records of inspection and maintenance of radiographic exposure devices, transport
20 and storage containers, associated equipment, source changers, and survey instruments;”
21 (20) 10 CFR 34.75, “Record of alarm system and entrance control checks at permanent radiographic
22 installations;”
23 (21) 10 CFR 34.79, “Records of training and certification;”
24 (22) 10 CFR 34.81, “Copies of operating and emergency procedures;”
25 (23) 10 CFR 34.83, “Records of personnel monitoring procedures;”
26 (24) 10 CFR 34.85, “Records of radiation surveys;”
27 (25) 10 CFR 34.87, “Form of records;”
28 (26) 10 CFR 34.89(a), (b)(1 through 10), “Location of documents and records;” and
29 (27) Appendix A to 10 CFR 34-Radiographer Certification.
30 (b) Copies of these regulations are available free of charge at [https://www.nrc.gov/reading-rm/doc-](https://www.nrc.gov/reading-rm/doc-collections/cfr/part034/index.html)
31 [collections/cfr/part034/index.html](https://www.nrc.gov/reading-rm/doc-collections/cfr/part034/index.html).

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33 *History Note: Authority G.S. 104E-7;*
34 *Eff. February 1, 1980;*
35 *Amended Eff. May 1, 1993;*
36 *Transferred and Recodified from 15A NCAC 11 .0501 Eff. February 1, 2015;*

1 *Pursuant to G.S.150B-21.3A, rule is necessary without substantive public interest Eff. June 22, ~~2019~~.*
2 *2019;*
3 *Amended Eff. May 1, 2024.*