

1 10A NCAC 15 .2008 is proposed for adoption as follows:

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3 **10A NCAC 15 .2008 CALIBRATION OF SURVEY INSTRUMENTS AND DOSIMETRY SYSTEMS**

4 (a) Survey Instruments, when employed by the licensee to perform surveys required by this section:

5 (1) The licensee shall ensure that the survey instruments used to show compliance with the provisions
6 of this Rule have been calibrated before first use, at intervals not to exceed 12 months and following
7 repair.

8 (2) To satisfy the requirements of Subparagraph (1) of this Paragraph, the licensee shall:

9 (A) Calibrate all required scale readings up to 10 mSv or 1000 mrem per hour with an
10 appropriate radiation source that is traceable to the National Institute of Standards and
11 Technology;

12 (B) Calibrate at least two points on each scale to be calibrated. These points should be at
13 approximately 1/3 and 2/3 of full-scale; and

14 (3) To satisfy the requirements of Subparagraph (a)(2) of this Rule, the licensee shall:

15 (A) Consider a point as calibrated if the indicated dose rate differs from the calculated dose
16 rate by not more than 10 percent; and

17 (B) Consider a point as calibrated if the indicated dose rate differs from the calculated dose
18 rate by not more than 20 percent if a correction factor or graph is conspicuously attached
19 to the instrument.

20 (4) The licensee shall retain a record of each calibration required in Paragraph (a) of this rule for three
21 years. The record shall include:

22 (A) A description of the calibration procedure; and

23 (B) A description of the source used and the certified dose rates from the source, and the rates
24 indicated by the instrument being calibrated, the correction factors deduced from the
25 calibration data, the signature of the individual who performed the calibration, and the date
26 of calibration.

27 (5) The licensee may obtain the services of individuals licensed by the Agency, the US Nuclear
28 Regulatory Commission or an Agreement State to perform calibrations of survey instruments.
29 Records of calibrations that contain information required by Paragraph (d) of this rule shall be
30 maintained for three years by the licensee.

31 (6) The record must include the model and serial number of the instrument, the date of the calibration,
32 the results of the calibration, and the name of the individual who performed the calibration.

33 (b) Dosimetry system:

34 (1) A licensee shall have a calibrated dosimetry system available for use. To satisfy this requirement,
35 one of the following two conditions must be met.

36 (A) The system must have been calibrated using a system or source traceable to the National
37 Institute of Standards and Technology and published protocols accepted by nationally

1 recognized bodies; or by a calibration laboratory accredited by the American Association
2 of Physicists in Medicine. The calibration must have been performed within the previous
3 2 years and after any servicing that may have affected system calibration; or

4 (B) The system must have been intercompared with another dosimetry system that was
5 calibrated within the previous 2 years by National Institute of Standards and Technology
6 or by a calibration laboratory accredited by the American Association of Physicists in
7 Medicine. The results of the intercomparison must indicate that the calibration factor of the
8 licensee's system had not changed by more than 2 percent.

9 (2) A licensee shall retain a record of the calibration, intercomparison, and comparisons of its dosimetry
10 equipment done for three years after the record is made. For each calibration, intercomparison, or
11 comparison, the record must include:

12 (A) The date;

13 (B) The manufacturer's name, model numbers and serial numbers of the instruments that were
14 calibrated, intercompared, or compared as required by paragraphs (b)(1) and (b)(2);

15 (C) The correction factor that was determined from the calibration or comparison or the
16 apparent correction factor that was determined from an intercomparison; and

17 (D) The names of the individuals who performed the calibration, intercomparison, or
18 comparison.

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20 *History Note: Authority G.S. 104E-7;*
21 *Eff. May 1, 2025.*