

641—42.18(136C) Calibration of survey instruments.

42.18(1) The registrant shall ensure that the survey instruments used to show compliance with rule 641—42.16(136C) have been calibrated before first use, at intervals not to exceed 12 months, and following repair.

42.18(2) To satisfy the requirements of this rule, the registrant shall:

- a.* Calibrate all required scale readings up to 1,000 mrem (ten mSv) per hour with an appropriate radiation source that is traceable to the NIST;
- b.* Calibrate at least two points on each scale to be calibrated. These points should be at approximately 1/3 and 2/3 of full scale;
- c.* Consider a point as calibrated if the indicated dose rate differs from the calculated dose rate by not more than 10 percent;
- d.* Consider a point as calibrated if the indicated dose rate differs from the calculated dose rate by not more than 20 percent if a correction factor or graph is conspicuously attached to the instrument.

42.18(3) The registrant shall retain a record of each calibration required in this rule for three years. The record shall include the following:

- a.* A description of the calibration procedure;
- b.* A description of the source used and the certified dose rates from the source, the rates indicated by the instrument being calibrated, the correction factors deduced from the calibration data, the signature of the individual who performed the calibration, and the date of calibration.

42.18(4) The registrant may obtain the services of individuals licensed by this department, the U.S. Nuclear Regulatory Commission, an agreement state, or a licensing state to perform calibrations of survey instruments. Records of calibrations that contain information required in this rule shall be maintained by the registrant.

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