**Section 350.1040 Radiation Survey Instruments**

a) The licensee or registrant shall maintain sufficient calibrated and operable radiation survey instruments to make physical radiation surveys as required by this Part and 32 Ill. Adm. Code 340.510(a). Instrumentation required by this Section shall have a range that 0.02 mSv (0.516 µC/kg, 2 mrem or 2 mR) per hour through 0.01 Sv (258 µC/kg or 1 R) per hour can be measured.

b) Each radiation survey instrument shall be calibrated:

1) At energies appropriate for use;

2) At intervals not to exceed 6 months and after each instrument servicing other than battery replacement;

3) To accuracy that can be demonstrated within plus or minus 20 percent;

4) At two or more widely separated points, other than zero, on each scale, or one point of each scale for digital devices. For instruments without multiple scales, calibration shall be performed at six points equally spaced across the range of 0.02 mSv (0.516 µC/kg 2 mrem or 2 mR) per hour to 0.01 Sv (258 µC/kg, 1 rem or 1 R) per hour; and

5) By a person licensed by the Agency, the U.S. Nuclear Regulatory Commission, an Agreement State or a Licensing State to perform such service.

c) Records of calibrations shall be maintained for 5 years after the calibration date for inspection by the Agency.

d) Immediately prior to use, a radiation survey instrument shall be checked to ensure that it is operating properly by bringing it near a source of radiation and observing a response. Instruments that fail to respond shall not be used.

(Source: Amended at 28 Ill. Reg. 12598, effective October 1, 2004)