10A NCAC 15 .0909 RADIATION MONITORING REQUIREMENTS

(a) Except for persons licensed for activities authorized by Section .1900 of this Chapter possessing non-portable therapeutic radiation machines, portable monitoring equipment shall be available at each particle accelerator facility. Such equipment shall be tested for proper operation monthly and calibrated at intervals not to exceed one year, and after each servicing and repair.

(b) A radiation protection survey shall be performed and documented by a qualified expert registered by the Agency pursuant to Rule .0205 of this Chapter for the provision of Class VII, Class IX services or an Authorized Medical Physicist named on the licensee's license when changes have been made in shielding, operation, equipment, or occupancy of adjacent areas. The licensee shall submit the report or a copy of the report to the Agency by email to licensing.ram@dhhs.nc.gov or at one of the addresses found in Rule .0111(a) of this Chapter.

(c) Except for facilities designed for human exposure, radiation levels in all high radiation areas shall be continuously monitored. The monitoring devices shall be electrically independent of the accelerator control and interlock systems and capable of providing a remote and local readout with visual or audible alarms at the control panel and other appropriate locations.

(d) All area monitors shall be tested for proper operation at least every six months unless more frequent checks are required by the Agency.

(e) Surveys shall be performed to determine the amount of airborne particulate radioactivity present in areas of airborne hazards at least annually.

(f) Whenever applicable, periodic smear surveys shall be made to determine the degree of contamination in target and other pertinent areas.

(g) All area surveys shall be made in accordance with written procedures approved by the Radiation Safety Officer of the accelerator facility.

(h) Records of all radiation protection surveys, calibration results, instrumentation tests, and smear results shall be kept current and on file at each accelerator facility for two years for inspection by the Agency.

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