

Nuclear Regulatory Commission

§ 35.2645

stereotactic radiosurgery unit full calibrations required by §§ 35.632, 35.633, and 35.635 for 3 years.

(b) The record must include—

- (1) The date of the calibration;
- (2) The manufacturer's name, model number, and serial number of the teletherapy, remote afterloader, and gamma stereotactic radiosurgery unit(s), the source(s), and the instruments used to calibrate the unit(s);
- (3) The results and an assessment of the full calibrations;
- (4) The results of the autoradiograph required for low dose-rate remote afterloader units; and
- (5) The signature of the authorized medical physicist who performed the full calibration.

§ 35.2642 Records of periodic spot-checks for teletherapy units.

(a) A licensee shall retain a record of each periodic spot-check for teletherapy units required by § 35.642 for 3 years.

(b) The record must include—

- (1) The date of the spot-check;
- (2) The manufacturer's name, model number, and serial number of the teletherapy unit, source and instrument used to measure the output of the teletherapy unit;
- (3) An assessment of timer linearity and constancy;
- (4) The calculated on-off error;
- (5) A determination of the coincidence of the radiation field and the field indicated by the light beam localizing device;
- (6) The determined accuracy of each distance measuring and localization device;
- (7) The difference between the anticipated output and the measured output;
- (8) Notations indicating the operability of each entrance door electrical interlock, each electrical or mechanical stop, each source exposure indicator light, and the viewing and intercom system and doors; and
- (9) The name of the individual who performed the periodic spot-check and the signature of the authorized medical physicist who reviewed the record of the spot-check.

(c) A licensee shall retain a copy of the procedures required by § 35.642(b)

until the licensee no longer possesses the teletherapy unit.

§ 35.2643 Records of periodic spot-checks for remote afterloader units.

(a) A licensee shall retain a record of each spot-check for remote afterloader units required by § 35.643 for 3 years.

(b) The record must include, as applicable—

- (1) The date of the spot-check;
- (2) The manufacturer's name, model number, and serial number for the remote afterloader unit and source;
- (3) An assessment of timer accuracy;
- (4) Notations indicating the operability of each entrance door electrical interlock, radiation monitors, source exposure indicator lights, viewing and intercom systems, and clock and decayed source activity in the unit's computer; and
- (5) The name of the individual who performed the periodic spot-check and the signature of the authorized medical physicist who reviewed the record of the spot-check.

(c) A licensee shall retain a copy of the procedures required by § 35.643(b) until the licensee no longer possesses the remote afterloader unit.

§ 35.2645 Records of periodic spot-checks for gamma stereotactic radiosurgery units.

(a) A licensee shall retain a record of each spot-check for gamma stereotactic radiosurgery units required by § 35.645 for 3 years.

(b) The record must include—

- (1) The date of the spot-check;
- (2) The manufacturer's name, model number, and serial number for the gamma stereotactic radiosurgery unit and the instrument used to measure the output of the unit;
- (3) An assessment of timer linearity and accuracy;
- (4) The calculated on-off error;
- (5) A determination of trunnion centricity;
- (6) The difference between the anticipated output and the measured output;
- (7) An assessment of source output against computer calculations;
- (8) Notations indicating the operability of radiation monitors, helmet microswitches, emergency timing circuits, emergency off buttons, electrical