(a) A licensee authorized to use a gamma stereotactic radiosurgery unit for medical use shall perform spot-checks of each gamma stereotactic radiosurgery facility and on each unit—
(1) Monthly;
(2) Before the first use of the unit on a given day; and
(3) After each source installation.
(b) A licensee shall—
(1) Perform the measurements required by paragraph (a) of this section in accordance with written procedures established by the authorized medical physicist. That individual need not actually perform the spot check measurements.
(2) Have the authorized medical physicist review the results of each spot-check within 15 days. The authorized medical physicist shall notify the licensee as soon as possible in writing of the results of each spot-check.
(3) To satisfy the requirements of paragraph (a) of this section, spot-checks must, at a minimum—
(i) Assure proper operation of—
(1) Treatment table retraction mechanism, using backup battery power or hydraulic backups with the unit off;
(2) Helmet microswitches;
(3) Emergency timing circuits; and
(4) Stereotactic frames and localizing devices (trunnions).
(2) Determine—
(i) The output for one typical set of operating conditions measured with the dosimetry system described in §35.630(b);
(ii) The difference between the measurement made in paragraph (c)(2)(i) of this section and the anticipated output, expressed as a percentage of the anticipated output (i.e., the value obtained at last full calibration corrected mathematically for physical decay);
(iii) Source output against computer calculation;
(iv) Timer accuracy and linearity over the range of use;
(v) On-off error; and
(vi) Trunnion centricity.
(d) To satisfy the requirements of paragraphs (a)(2) and (a)(3) of this section, spot-checks must assure proper operation of—
   (1) Electrical interlocks at each gamma stereotactic radiosurgery room entrance;
   (2) Source exposure indicator lights on the gamma stereotactic radiosurgery unit, on the control console, and in the facility;
   (3) Viewing and intercom systems;
   (4) Timer termination;
   (5) Radiation monitors used to indicate room exposures; and
   (6) Emergency off buttons.
(e) A licensee shall arrange for the repair of any system identified in paragraph (c) of this section that is not operating properly as soon as possible.
(f) If the results of the checks required in paragraph (d) of this section indicate the malfunction of any system, a licensee shall lock the control console in the off position and not use the unit except as may be necessary to repair, replace, or check the malfunctioning system.
(g) A licensee shall retain a record of each check required by paragraphs (c) and (d) and a copy of the procedures required by paragraph (b) of this section in accordance with §35.2645.

§ 35.647 Additional technical requirements for mobile remote afterloader units.
(a) A licensee providing mobile remote afterloader service shall—
   (1) Check survey instruments before medical use at each address of use or on each day of use, whichever is more frequent; and
   (2) Account for all sources before departure from a client’s address of use.
(b) In addition to the periodic spot-checks required by §35.643, a licensee authorized to use mobile afterloaders for medical use shall perform checks on each remote afterloader unit before use at each address of use. At a minimum, checks must be made to verify the operation of—
   (1) Electrical interlocks on treatment area access points;
   (2) Source exposure indicator lights on the remote afterloader unit, on the control console, and in the facility;
   (3) Viewing and intercom systems;
   (4) Applicators, source transfer tubes, and transfer tube-applicator interfaces;
   (5) Radiation monitors used to indicate room exposures;
   (6) Source positioning (accuracy); and
   (7) Radiation monitors used to indicate whether the source has returned to a safe shielded position.
(c) In addition to the requirements for checks in paragraph (b) of this section, a licensee shall ensure overall proper operation of the remote afterloader unit by conducting a simulated cycle of treatment before use at each address of use.
(d) If the results of the checks required in paragraph (b) of this section indicate the malfunction of any system, a licensee shall lock the control console in the off position and not use the unit except as may be necessary to repair, replace, or check the malfunctioning system.
(e) A licensee shall retain a record of each check required by paragraph (b) of this section in accordance with §35.2647.

§ 35.652 Radiation surveys.
(a) In addition to the survey requirement in §20.1501 of this chapter, a person licensed under this subpart shall make surveys to ensure that the maximum radiation levels and average radiation levels from the surface of the main source safe with the source(s) in the shielded position do not exceed the levels stated in the Sealed Source and Device Registry.
(b) The licensee shall make the survey required by paragraph (a) of this section at installation of a new source and following repairs to the source(s) shielding, the source(s) driving unit, or other electronic or mechanical component that could expose the source, reduce the shielding around the source(s), or compromise the radiation safety of the unit or the source(s).
(c) A licensee shall retain a record of the radiation surveys required by paragraph (a) of this section in accordance with §35.2652.

§ 35.655 Five-year inspection for teletherapy and gamma stereotactic radiosurgery units.
(a) A licensee shall have each teletherapy unit and gamma stereotactic