#### § 35.2647

the gamma stereotactic radiosurgery

# § 35.2647 Records of additional technical requirements for mobile remote afterloader units.

- (a) A licensee shall retain a record of each check for mobile remote afterloader units required by §35.647 for 3 years.
  - (b) The record must include—
  - (1) The date of the check:
- (2) The manufacturer's name, model number, and serial number of the remote afterloader unit:
- (3) Notations accounting for all sources before the licensee departs from a facility;
- (4) Notations indicating the operability of each entrance door electrical interlock, radiation monitors, source exposure indicator lights, viewing and intercom system, applicators, source transfer tubes, and transfer tube applicator interfaces, and source positioning accuracy: and
- (5) The signature of the individual who performed the check.

## § 35.2652 Records of surveys of therapeutic treatment units.

- (a) A licensee shall maintain a record of radiation surveys of treatment units made in accordance with §35.652 for the duration of use of the unit.
  - (b) The record must include—
  - (1) The date of the measurements:
- (2) The manufacturer's name, model number and serial number of the treatment unit, source, and instrument used to measure radiation levels;
- (3) Each dose rate measured around the source while the unit is in the off position and the average of all measurements; and
- (4) The signature of the individual who performed the test.

#### § 35.2655 Records of 5-year inspection for teletherapy and gamma stereotactic radiosurgery units.

- (a) A licensee shall maintain a record of the 5-year inspections for teletherapy and gamma stereotactic radiosurgery units required by §35.655 for the duration of use of the unit.
  - (b) The record must contain—
- (1) The inspector's radioactive materials license number;
  - (2) The date of inspection;

- (3) The manufacturer's name and model number and serial number of both the treatment unit and source;
- (4) A list of components inspected and serviced, and the type of service; and
  - (5) The signature of the inspector.

### Subpart M—Reports

## §35.3045 Report and notification of a medical event.

- (a) A licensee shall report any event, except for an event that results from patient intervention, in which the administration of byproduct material or radiation from byproduct material results in—
- (1) A dose that differs from the prescribed dose or dose that would have resulted from the prescribed dosage by more than 0.05 Sv (5 rem) effective dose equivalent, 0.5 Sv (50 rem) to an organ or tissue, or 0.5 Sv (50 rem) shallow dose equivalent to the skin; and
- (i) The total dose delivered differs from the prescribed dose by 20 percent or more;
- (ii) The total dosage delivered differs from the prescribed dosage by 20 percent or more or falls outside the prescribed dosage range; or
- (iii) The fractionated dose delivered differs from the prescribed dose, for a single fraction, by 50 percent or more.
- (2) A dose that exceeds 0.05 Sv (5 rem) effective dose equivalent, 0.5 Sv (50 rem) to an organ or tissue, or 0.5 Sv (50 rem) shallow dose equivalent to the skin from any of the following—
- (i) An administration of a wrong radioactive drug containing byproduct material;
- (ii) An administration of a radioactive drug containing byproduct material by the wrong route of administration:
- (iii) An administration of a dose or dosage to the wrong individual or human research subject;
- (iv) An administration of a dose or dosage delivered by the wrong mode of treatment; or
  - (v) A leaking sealed source.
- (3) A dose to the skin or an organ or tissue other than the treatment site that exceeds by 0.5 Sv (50 rem) to an organ or tissue and 50 percent or more

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of the dose expected from the administration defined in the written directive (excluding, for permanent implants, seeds that were implanted in the correct site but migrated outside the treatment site).

- (b) A licensee shall report any event resulting from intervention of a patient or human research subject in which the administration of byproduct material or radiation from byproduct material results or will result in unintended permanent functional damage to an organ or a physiological system, as determined by a physician.
- (c) The licensee shall notify by telephone the NRC Operations Center<sup>3</sup> no later than the next calendar day after discovery of the medical event.
- (d) By an appropriate method listed in §30.6(a) of this chapter, the licensee shall submit a written report to the appropriate NRC Regional Office listed in §30.6 of this chapter within 15 days after discovery of the medical event.
  - (1) The written report must include—
  - (i) The licensee's name;
- (ii) The name of the prescribing physician;
  - (iii) A brief description of the event;
  - (iv) Why the event occurred;
- (v) The effect, if any, on the individual(s) who received the administration;
- (vi) What actions, if any, have been taken or are planned to prevent recurrence; and
- (vii) Certification that the licensee notified the individual (or the individual's responsible relative or guardian), and if not, why not.
- (2) The report may not contain the individual's name or any other information that could lead to identification of the individual.
- (e) The licensee shall provide notification of the event to the referring physician and also notify the individual who is the subject of the medical event no later than 24 hours after its discovery, unless the referring physician personally informs the licensee either that he or she will inform the individual or that, based on medical judgment, telling the individual would be harmful. The licensee is not re-

quired to notify the individual without first consulting the referring physician. If the referring physician or the affected individual cannot be reached within 24 hours, the licensee shall notify the individual as soon as possible thereafter. The licensee may not delay any appropriate medical care for the individual, including any necessary remedial care as a result of the medical event, because of any delay in notification. To meet the requirements of this paragraph, the notification of the individual who is the subject of the medical event may be made instead to that individual's responsible relative or guardian. If a verbal notification is made, the licensee shall inform the individual, or appropriate responsible relative or guardian, that a written description of the event can be obtained from the licensee upon request. The licensee shall provide such a written description if requested.

- (f) Aside from the notification requirement, nothing in this section affects any rights or duties of licensees and physicians in relation to each other, to individuals affected by the medical event, or to that individual's responsible relatives or guardians.
  - (g) A licensee shall:
- (1) Annotate a copy of the report provided to the NRC with the:
- (i) Name of the individual who is the subject of the event; and
- (ii) Social security number or other identification number, if one has been assigned, of the individual who is the subject of the event; and
- (2) Provide a copy of the annotated report to the referring physician, if other than the licensee, no later than 15 days after the discovery of the event.

[67 FR 20370, Apr. 24, 2002, as amended at 68 FR 58805, Oct. 10, 2003; 76 FR 72085, Nov. 22, 2011]

# § 35.3047 Report and notification of a dose to an embryo/fetus or a nursing child.

(a) A licensee shall report any dose to an embryo/fetus that is greater than 50 mSv (5 rem) dose equivalent that is a result of an administration of byproduct material or radiation from byproduct material to a pregnant individual unless the dose to the embryo/fetus was

 $<sup>^3</sup> The$  commercial telephone number of the NRC Operations Center is (301) 816–5100.