

APPENDIX L

Procedures for Area Surveys

AMBIENT DOSE RATE SURVEYS

1. Survey at the end of each day of use, or during an assigned shift for facilities operating continuously, with a radiation detection survey meter in radiopharmaceutical elution, preparation, and administration areas. If diagnostic administrations are occasionally made in patients' rooms and special care is taken to remove all paraphernalia, those rooms need not be surveyed.
2. Survey weekly with a radiation detection survey meter in radiopharmaceutical storage and radiopharmaceutical waste storage areas,
3. Survey quarterly with a radiation measurement survey meter in sealed source and brachytherapy storage areas,
4. Immediately notify the radiation safety officer (RSO) if you find unexpectedly high or low levels.

Note: End of day use, weekly radiopharmaceutical storage, and radiopharmaceutical waste storage area ambient dose rate surveys need not be performed in areas where patients or human research subjects are currently confined when such patients or subjects cannot be released as referenced in Rule 64E-5.622, Florida Administrative Code.

REMOVABLE CONTAMINATION SURVEYS (WIPES)

1. Survey weekly for removable contamination in all radiopharmaceutical storage, elution, preparation, administration and waste storage areas. If diagnostic administrations are occasionally made in patients' rooms and special care is taken to remove all paraphernalia, those rooms need not be surveyed.
2. The wipe sample assay procedure should be sufficiently sensitive to detect the presence of 2000 dpm/100 cm² of removable contamination (200 dpm/100 cm² for isotopes of iodine). Assay the wipe sample in a low background area with a radiation detection survey meter using a probe with a maximum window thickness of 2.0 mg/cm² and a minimum probe diameter of 1.5 inches.
3. If this method is used, any reading above background will be considered above established action levels and appropriate action will be taken.
4. Immediately notify the RSO if you find unexpectedly high levels.

RECORDS

Keep a record of dose rate and contamination survey results.

Records must include the following information:

1. The date of the survey;
2. A diagram of each area surveyed;
3. Action levels established for each area;
4. Measured dose rate at several points in each area, expressed in millirems (microseiverts) per hour or the removable contamination in each area expressed in disintegrations per minute (becquerels) per 100 cm², or counts per minute if performed with a radiation survey instrument as described in Appendix B;
5. The serial number and the model number of the instrument used to make the survey or analyze the samples; and
6. The name of the person who performed the survey.

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