

## APPENDIX G

### RADIATION SURVEY PROGRAM

A radiation survey program is required for all Applicants who will possess a radiation survey instrument in accordance with Item 13, "Radiation Detection Instruments". The program shall include provisions for determining the following:

- a. Radiation levels at gauge locations will be determined during gauge installation and at least annually thereafter.
- b. Radiation levels in the permanent and temporary storage areas and the adjacent areas with each storage inventory change or at least annually.
- c. Radiation levels during non-routine maintenance such as installation, relocation, removal from service, dismantling, alignment, replacement, disposal of the sealed source, and non-routine maintenance and repair of components related to the radiological safety of the gauge.
- d. Radiation levels at the work location to verify the source is properly shielded during **gauge lockout procedures**.
- e. Transport Index (TI) when preparing a gauge for transport.
- f. Source integrity following an incident involving the gauge.

A permanent record of all surveys will be maintained for three years following the date on which the record was created. The radiation survey record shall include:

- a. Location, date, and identification of radiation survey instrument used, specifically the serial number and date of last calibration.
- b. Name of individual performing the survey.
- c. Drawing of area surveyed, identifying relevant features such as the gauge storage area, nearest occupied work area, etc.
- d. Measured dose rates (millirem per hour) keyed to locations on the drawing of the area.
- e. Corrective actions taken in the event excessive dose rates are identified during the survey.

An acceptable radiation survey form for an installed gauge is provided in Exhibit B. Documentation of radiation surveys for other gauge configurations (for example, gauge in temporary storage, gauge packaged for transportation, etc.) must follow an equivalent format to that shown in Exhibit B.