

Radiation Safety Survey Tables

Surveys shall be documented at least on the frequency given in Table 1.

Surveys shall also be documented every time contamination or radiation action levels are found, either by routine survey or as the result of a spill; refer to Table 2 and Table 3 for survey levels and required accompanying actions.

When contamination or radiation levels are found above Table 2 or Table 3 action levels, then records shall also indicate the corrective action(s) taken to eliminate or minimize the excessive levels found, including the print out results of the re-surveyed areas.

Table 1

**WHEN DO I NEED TO DOCUMENT A SURVEY?
(Use or Storage of Potentially Uncontained Materials)**

Action Required	Daily	Weekly	Monthly
Instrument survey and Removable Contamination survey	Greater than 5 mCi of activity handled or in use at any one time	Greater than 1 mCi of activity handled or in use at any one time	Active Authorization
<p>(1) Monitoring shall be performed after each use of uncontained radioactive materials and in the case of spills. Such surveys document the event and the effectiveness of corrective action or cleanup. (2) Surveys shall be documented on at least the frequency indicated above. (3) Surveys shall also be documented in the case of contamination or radiation levels in excess of action levels listed in Tables 2 and 3 (including documentation of corrective actions and results). (4) Instrument surveys are not required for tritium (H-3) or as stated in Special Conditions specifically approved for the authorization. (5) If active Authorization does not possess radioactive material, then monthly documented survey shall document that the survey meter(s) and LSC (or other swipe counters) are calibrated and functioning properly.</p>			

Table 2

**REMOVABLE CONTAMINATION SURVEY LEVELS AND ACTIONS
(Swipes in dpm/100 cm²)**

Contamination of	Less Than 200	Greater Than 200 & Less Than 2000	Greater Than 2000 & Less Than 20,000	Greater Than or Equal to 20,000
Personnel and/or clothing; areas outside restricted areas	ALARA	Control & Report immediately	Control & Report immediately	Control & Report immediately
Floor in restricted area; areas outside of Radioisotope Work Area	ALARA	Decontaminate, document & report by next work day	Control & Report immediately	Control & Report immediately
Designated Radioisotope Work Area	ALARA	ALARA	Decontaminate & document	Decontaminate, document & report by next work day
Labeled Equipment, Apparatus or Appliances	ALARA	ALARA	ALARA	Decontaminate, document, & if greater than 200,000 report by next day

Note: Report any spill involving greater than 1 microcurie (2,200,000 dpm) immediately!

Table 3 INSTRUMENT SURVEY LEVELS AND ACTIONS

ACTION	Instrument Surface Contamination Survey	Instrument - Area Radiation Level Survey
Decontaminate or shield, and document	Greater than or equal to 0.3 mR/hr @ 1 cm from surface	Greater than or equal to 0.2 mR/hr @ 30 cm
Control & Report immediately	Greater than or equal to 3.0 mR/hr @ 1 cm from surface	Greater than or equal to 2.0 mR/hr @ 30 cm