

**WORCESTER POLYTECHNIC INSTITUTE
HEALTH PHYSICS PROCEDURE HP-17
PERSONNEL AND AREA MONITORING**

1. PURPOSE:

To ensure that personnel and work stations are free from surface radioactive contamination.

2. FREQUENCY:

- 2.1. At frequent intervals during the experiment
- 2.2. At the end of each procedure
- 2.3. At any time the work area is left
- 2.4. At any time personal contamination is suspected

3. MATERIALS, TOOLS, AND EQUIPMENT:

- 3.1. Form(s):
 - 3.1.1. Personnel Monitoring Record (Page 2 of HPF_08)
- 3.2. G-M tube survey meter

4. PRECAUTIONS:

- 4.1. Ensure that all health physics practices are followed throughout the survey.
- 4.2. Take all necessary precautions to avoid the spread of possible contamination.
- 4.3. Perform an operability check on all instrumentation used. Ensure that the instrumentation has been calibrated within the proper time limit.
- 4.4. Utilize the concepts of time, distance, and shielding to maintain exposure as low as reasonably achievable.

5. INSTRUCTIONS:

5.1. Perform a contamination survey using a G-M tube survey meter in the following areas:

- * Countertops
- * Equipment
- * Flooring
- * Hands
- * Clothing
- * Bottom of shoes

5.2. Record the following information each time personnel or area monitoring has been completed:

5.2.1. The date

5.2.2. The initials of the person completing the survey

5.2.3. The results of the survey:

- * Satisfactory (SAT)
- * Unsatisfactory (UNSAT)

NOTE: If unsatisfactory results are obtained, describe the results and the action taken in the remarks section.

6. RESTORATION:

None

7. REFERENCES:

7.1. Code of Federal Regulations Part 10, Chapter 20, Sections 20.2106 20.1003, 20.1501, 20.1301

7.2. Code of Federal Regulations Part 10, Chapter 30, Sections 51, 62

7.3. Radiation, Health, and Safeguards Committee Radiation Regulations