

WPI HEALTH PHYSICS FORM HPF-7

INSPECTION AND SURVEY OF RADIOACTIVE MATERIAL PACKAGES FORM

Date of Isotope Receipt _____ Isotope and Quantity _____

Time of RSO Notification _____ Package Carrier _____

Time of RSO Survey _____ Purchasing PI _____

Time Limit: If the package was received during normal working hours, the RSO/ARSO/Approved Surveyor will respond within 2.5 hours to ensure the survey is completed within 3 hours of package receipt [105 CMR 120.246.C, 10 CFR 20.1906.c], then take the package to the PI's lab. If the package was received after normal working hours, the RSO, ARSO, or Approved Surveyor will respond within 2.5 hours of the start of the next normal working day, survey the package, then take it to the PI's lab.

Procedure: Follow the procedures outlined in HP-15.

Exempt or **Licensed** (check one) (105 CMR 120.104.B, 105 CMR 120.196, Appendix B, Table I)

Results of Radiation Survey:

1. Instrument Used: Model: _____ S/N: _____

2. Maximum surface exposure rate of the package, including the bottom of the box:
_____ mR/Hr

If the external radiation levels exceed 200 mR/Hr (105 CMR 120.785.I) immediately notify the delivery carrier, and the DPH by phone at (617) 427-2913 (emergency) and fax (617) 427-2925 (105 CMR 120.246.D).

Results of Removable Contamination Survey:

1. Instrument used: Model: _____ S/N: _____

2. GM detector reading on packing material and packages: _____ CPM

3. GM detector reading on external swipes of final source container: _____ CPM

If the GM detector reading is $\geq 2X$ background, or if measuring tritium or transuranic isotopes not efficiently detected with a GM detector, quantify the swipes using a gas proportional analyzer or equivalent detector. If the amount of radioactivity measured on any swipe exceeds the levels of 105 CMR 120.785.H, TABLE III (i.e for a beta emitter: 10 pCi/cm², 1000 pCi for a typical 10 x 10 cm swipe; or 22 dpm/cm², 2200 dpm for a typical 10 x 10 cm swipe) immediately notify the delivery carrier, and the DPH by phone at (617) 427-2913 (emergency) and fax (617) 427-2925 (105 CMR 120.246.D).

Performed by/Date/Time

RSO Approval/Date