

Quick Reference Guide

Radiation Controls: (Sections 4 and 7)

Exposure Limits

Controlled Zones

Rad Worker	5 rem/year	Contaminated Area	500 dpm /
Whole Body		Beta / gamma (excluding	100 cm ²
Rad Worker	50 rem/year	Contaminated Area	1000 dpm /
Extremity / organ		Tritium (³ H)	100 cm ²
Non-rad worker	0.1 rem/year	Radiation Area	5 mrem/hr
whole body		(1 rem/hr = 1,000 mrem/hr)	≥30 cm
Dose to Embryo	0.5 rem/term	High Radiation Area	100 mrem/hr
(Declared Pregnancy)		(1 rem/hr = 1,000 mrem/hr)	≥30 cm

Purchase of Radioactive Materials: (Section 6)

- 1. Before placing the order, you must have a RSC approved / signed form HP-1 (Appendix IX)
- 2. You can not use a PROCARD to purchase Radioactive Materials!
- 3. Ship to: Hazardous Materials Stock Room,
 - ATT: Rad Safety Office 201 Riverside St. Lowell, MA 01854

General Use of Radioactive Materials: (Section 7)

- 1. Record the removal of the radioactive material from stock solution. (Form AU-1 or equiv't)
- 2. Have a certified portable radiation survey meter readily available. (Appendix VIII)
- 3. Use proper and safe work habits and wear appropriate dosimetry. (Appendix III)
- 4. Properly handle and store any radioactive waste generated (Section 8)
 - a. LSC fluid concentrations $\leq 0.05 \ \mu$ Ci/ml is treated as stable, chemical waste.
 - b. Stable waste measures ≤ 2x background (low background area and use of high sensitivity instrument).
- 5. At the end of the experiment, perform applicable contamination / field survey. (Section 7: Radiation Monitoring)
 - a. Record the results of the survey. This record must be kept on file at the laboratory. (Appendix VII)
 - b. If area is a Contamination Area (Section 7: Control Zones) contact Radiation Safety Office at x43372 or x43373.
 - c. If area is a Radiation Area (Section 7: Control Zones) contact Radiation Safety Office at x43372 or x43373.

<u>Records Required to be Maintained by Laboratory: (Section 7)</u>

- 1. Radioactive Source Inventory (form AU-1 or equivalent)
- 2. Radiation Survey Results (contamination / field) (form AU-2 or equivalent)
- 3. Radioactive waste inventory(form AU-1 or equivalent)

Radiation Safety Office Contact Information:

Director, RSO Pinanski Room 103a Phone: x43373 Assistant RSO Pinanski Room 103 Phone: x43372