

Typical Background Radiation Levels

- New York City ~ 300 mRem/year
- Denver ~ 500 mRem/year
- Grand Central Station > 500 mRem/year
- Andes Mountains ~ 1000 mRem/year or 1 Rem/year
- One banana ~ 0.1 mRem
- Flight from LA to London ~ 5 mRem

Guidelines for Security and Engineering

- Isotopes are routinely delivered to the designated area during normal business hours.
- For off our delivery, the radioactive material transporter should check in with security and be escorted to the designated area for isotope delivery.
- Only authorized personnel are to enter Radioactive Material storage areas. Should staff need entry to these areas, the Nuclear Medicine supervisor or Radiation Safety Officer should be contacted.

General Environmental Services Guidelines



- Clean in authorized areas only
- Do not enter hot lab unless authorized to do so or under direct supervision
- Do not empty containers with radioactive label
- Conventional cleaning solvents are appropriate
- Mounted waste monitors
 - Designed to detect small quantities of radioactive material in waste/linen
 - Must walk slowly through detectors – 6 seconds is ideal
 - When alarm is sounded, store waste in designated area

Radiation Safety Officer

- Any institution that uses radiation for diagnostic and/or therapeutic purposes must name a Radiation Safety Officer (R.S.O.).
- This individual is responsible for the day to day safe use of radiation at the institution.
- All unsafe conditions must be reported to the R.S.O.