

C. Program Design

The following should be considered when designing a new radiation program:

1. It is highly desirable to have designated areas within the laboratory where radioactive materials will be manipulated.
2. All work surfaces where radioactive materials are to be used will be constructed with materials that are nonporous and resistant to attack by solutions used in the experimental procedure. The surfaces must be void of open seams and must be easy to clean.
3. Floors in areas where radioactive materials are to be used may not consist of bare concrete or other porous material. The RSO should be consulted concerning adequate floor coverings.
4. Cloth-covered chairs are not permitted in radiation laboratories.
5. Storage areas should be planned to limit the number of freezers/refrigerators that will contain isotopes.
6. The implications of the security requirements must be considered. Licensed material must remain secure at all times against unauthorized removal.
7. The accessibility of office areas and persons likely to visit the laboratory must be considered. Non-radiation workers are limited to lower doses than approved radiation workers.
8. Areas designated for the manipulation of radioactive materials should be clearly marked to ensure that exposures to non-radiation workers are kept as low as reasonably achievable.
9. It is recommended that a RAS be assigned to allow for adequate supervision and the possibility for minor program modifications (pending RSO approval) in the absence of the PI.