

Monitoring Requirements

As per Florida Administrative Code 64E-5.1319 all Principal Investigators are required to comply with the following monitoring and record keeping requirements:

Daily Surveys: (As per FAC 64E-5.1319 (1a))

Daily surveys are required when radioactive materials are actively being used in the lab. The regulations require that on any day when radioactive materials are used a survey of the designated areas must be performed at the end of the operation and the readings recorded in the lab journal.

The items to be recorded are

- Survey meter #
- Model #
- Date of survey
- Location of survey (as per designated areas on floor plan)
- Reading (in case of background, a base level for e.g. 25 CPM must be recorded)
- Initials of the person performing the survey.

The form SW1 (copy attached) should be used to assure that all required items are recorded.

Note: In cases where the isotope is not readily detectable using survey meters (e.g. Tritium) daily wipes should be taken and counted in a liquid scintillation counter (as per FAC 64E-5.1319 (1e)). Record keeping requirements are the same as those given above for daily surveys.

Weekly Surveys: (As per FAC 64E-5.1319 (1b))

Weekly surveys are required for each location when radioactive materials are not being actively used but are kept in storage. Record keeping requirements are the same as those given above for daily surveys.

Weekly Wipes: (As per FAC 64E-5.1319 (1c))

All designated lab areas are required to be wipe tested on a weekly basis. These wipes can be counted using a survey meter or scintillation counter. Record keeping requirements are the same as those given above for daily surveys.

Note: All survey meters and scintillation devices must be calibrated, any survey or reading measured using a non-calibrated device can not be used to fulfill the requirements of the regulations.

Action Levels (as per FAC 64E-5.1319 (2c))

The action levels set based on the University ALARA program are as follows:

- In **Normal Radioactive Area**
30 DPM ALPHA/100 cm²
100 DPM BETA-GAMMA/100 cm²
- In **Hot Lab**
30 DPM ALPHA/100 cm²
500 DPM BETA-GAMMA/100 cm²

Normal radioactive areas are defined as those areas within the captioned laboratories not ordinarily expected to be used for studies utilizing radioactive materials.

Hot Labs are defined as those designated with appropriate signs as radioactive handling areas.

If contamination levels are higher than the action levels given above, the P.I is responsible to undertake decontamination for the area. Decontamination should be done using the spill clean-up procedures provided in the Radiation Protection Program. A survey or wipe test must be done after completion of decontamination procedures to assure that the readings have been reduced to acceptable levels.

