**Section 333.40 Calibration Services**

a) The Department provides the following calibration services under accreditation by the Conference of Radiation Control Program Directors, Inc.

1) X-ray Calibrations. 5 beam codes at 32 mR/sec. This service is available for the Radcal MDH 1015 x-ray monitor only. The available beam codes are:

|  |  |  |  |
| --- | --- | --- | --- |
| BEAM  CODE | | HALF-VALUE  LAYER | HOMOGENEITY  COEFFICIENT |
| L | 80 | 1.81 mm Aluminum | 0.59 |
| L | 100 | 2.82 mm Aluminum | 0.59 |
| M | 30 | 0.36 mm Aluminum | 0.65 |
| M | 50 | 1.03 mm Aluminum | 0.64 |
| M | 100 | 4.96 mm Aluminum | 0.73 |

2) Gamma Ray Calibrations. 1 beam code. This service is available only for ion chamber and energy compensated G-M tube instruments.

|  |  |
| --- | --- |
| BEAM CODE | INTENSITIES |
| Cs-137 | .005 - 40 R/hr |

b) The Department also provides the following services, which are not performed under accreditation.

1) Microrem Meter Calibrations. 2 points per scale, gamma intensity range available to 0.015 mR/hr.

2) Pocket Dosimeter Calibrations. 1 point gamma radiation up to 200 R.

3) Count-Rate Instrument Calibrations. Pulse rate at 2 points per scale. Alpha probe response is checked at 2 points. Beta-gamma probes are checked at 1 point. Other checks may be performed, depending on each instrument and probe combination.

c) The Department may be able to provide additional calibration services, including but not limited to calibrations using additional beam codes. Persons desiring any calibration services are urged to contact the facility by telephone at (217) 786-7221 to determine the availability of additional services.