



With over 30 years experience providing Radiation Protection Advice, IRS is your one-stop solution to all your radiation protection needs.

Service specification:

IRS will provide advice and scientific and technical support to enable the client to comply with current legislative requirements.

Dose measurements will be undertaken in accordance with recommendations made in IPEM Report 32, 'Measurements of the Performance Characteristics of Diagnostic X-Ray Systems used in Medicine', Part 111, Computed Tomography X-Ray Scanners.' Measurements will be undertaken as part of the routine biennial surveys.

The choice of dosimetry parameter and its measurement is dependent on the purpose for which it is required. At acceptance, it is generally necessary to perform measurements using standard Perspex phantoms since most manufacturers present specification information in this way. For constancy testing, a measure of tube output alone is usually sufficient.

Dose measurements in the standard Perspex phantoms can also be used for comparing scanners and scanning protocols, or for comparing against established reference dose levels.

Dose parameters can be measured in two ways, from a single axial scan to give the computed tomography dose index (CTDI) or from a series of scans to give the multiple scan axial dose (MSAD).

An additional assessment of Dose Length Product (DLP) can be performed using CTDI and scan protocol parameters.