


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p><b>UKAS</b> CALIBRATION</p> <p>4382</p> <p>Accredited to <b>ISO/IEC 17025:2005</b></p>	<p><b>James Fisher Inspection &amp; Measurement Services Limited</b></p> <p>Issue No: 002      Issue date: 11 June 2010</p>	
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<p><b>Calibration performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty ( $k=2$ )	Remarks
Surface contamination response. Complying with statutory tests given in GPG14 including Tests before First Use	Alpha emitting nuclides Americium 241 Thorium 230	±5.5%	Calibration of portable surface contamination instruments using large area sources with surface emission rates traceable to national standards.
	Beta emitting nuclides Chlorine 36 Carbon 14	±5.5%	
Air kerma rate	Americium 241 26 $\mu\text{Gy.h}^{-1}$ to 630 $\mu\text{Gy.h}^{-1}$	±6.5%	Calibration and testing of air kerma/air kerma rate monitors using air kerma rates traceable to national standards through a secondary standard dosimeter.
	Caesium-137 2.4 $\mu\text{Gy.h}^{-1}$ to 2.4 $\text{Gy.h}^{-1}$	±4.7%	
	Colbalt-60 199 $\mu\text{Gy.h}^{-1}$ to 10.9 $\text{mGy.h}^{-1}$	±4.7%	
Ambient dose equivalent $H^*(10)$	Americium 241 46 $\mu\text{Sv.h}^{-1}$ to 1.1 $\text{mSv.h}^{-1}$	±6.5%	Calibration and testing of dose/dose rate monitors using air kerma rates traceable to national standards through a secondary standard dosimeter and using appropriate coefficients given in ISO Standards for $H^*(10)$ .
	Caesium-137 2.9 $\mu\text{Sv.h}^{-1}$ to 2.9 $\text{Sv.h}^{-1}$	±4.7%	
	Colbalt-60 229 $\mu\text{Sv.h}^{-1}$ to 12.5 $\text{mSv.h}^{-1}$	±4.7%	
Performance testing of personal dosimetry services for external radiations against HSE protocols $H_p(10)$	Americium 241 50 $\mu\text{Sv.h}^{-1}$ to 1.2 $\text{mSv.h}^{-1}$	±6.5%	Calibration and testing of approved dosimetry services using air kerma rates traceable to national standards through a secondary standard dosimeter, and using appropriate coefficients given in ISO Standards for $H_p(10)$
	Caesium-137 2.7 $\mu\text{Sv.h}^{-1}$ to 2.7 $\text{Sv.h}^{-1}$	±4.7%	
	Colbalt-60 215 $\mu\text{Sv.h}^{-1}$ to 11.8 $\text{mSv.h}^{-1}$	±4.7%	



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Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty (k=2)	Remarks
Personal dose equivalent Hp(10)	Americium 241 50 $\mu\text{Sv.h}^{-1}$ to 1.2 $\text{mSv.h}^{-1}$	$\pm 6.5\%$	Calibration and testing of electronic personal dosimeters using air kerma rates traceable to national standards through a secondary standard dosimeter, and using appropriate coefficients given in ISO Standards for Hp(10)
	Caesium-137 2.7 $\mu\text{Sv.h}^{-1}$ to 2.7 $\text{Sv.h}^{-1}$	$\pm 4.7\%$	
	Colbalt-60 215 $\mu\text{Sv.h}^{-1}$ to 11.8 $\text{mSv.h}^{-1}$	$\pm 4.7\%$	
Measurement of surface emission rates $\text{p.s}^{-1}$	Alpha emitting nuclides Americium 241 Thorium 230 Plutonium-239	4.25% 4.25% 4.25%	Measurement of surface emission rates from planar sources using a transfer standard counter calibrated with extended DkD sources of the same nuclide, or a nuclide with similar energy emissions.
	Beta emitting nuclides Chlorine 36 Carbon 14 Strontium-90	4.25% 4.25% 4.25%	
END			