

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



4382

Accredited to
ISO/IEC 17025:2005

James Fisher Nuclear Limited trading as James Fisher Inspection and Measurement Services

Issue No: 04 Issue date: 24 December 2010

Unit 64, 3rd Avenue, Zone 2
Deeside Industrial Estate
Flintshire
CH5 2LA

Contact: Mr M Walker
Tel: +44 (0)1244 283 890
Fax: +44 (0)
E-Mail: mike.walker@jfims.co.uk
Website: www.jfims.co.uk

Calibration performed at the above address only

DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) 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 $\mu\text{Gy}\cdot\text{h}^{-1}$ to 630 $\mu\text{Gy}\cdot\text{h}^{-1}$	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 $\mu\text{Gy}\cdot\text{h}^{-1}$ to 2.4 $\text{Gy}\cdot\text{h}^{-1}$	4.7 %	
	Colbalt-60 199 $\mu\text{Gy}\cdot\text{h}^{-1}$ to 10.9 $\text{mGy}\cdot\text{h}^{-1}$	4.7 %	
Ambient dose equivalent $H^*(10)$	Americium 241 46 $\mu\text{Sv}\cdot\text{h}^{-1}$ to 1.1 $\text{mSv}\cdot\text{h}^{-1}$	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 $\mu\text{Sv}\cdot\text{h}^{-1}$ to 2.9 $\text{Sv}\cdot\text{h}^{-1}$	4.7 %	
	Colbalt-60 229 $\mu\text{Sv}\cdot\text{h}^{-1}$ to 12.5 $\text{mSv}\cdot\text{h}^{-1}$	4.7 %	
Performance testing of personal dosimetry services for external radiations against HSE protocols $H_p(10)$	Americium 241 50 $\mu\text{Sv}\cdot\text{h}^{-1}$ to 1.2 $\text{mSv}\cdot\text{h}^{-1}$	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 $\mu\text{Sv}\cdot\text{h}^{-1}$ to 2.7 $\text{Sv}\cdot\text{h}^{-1}$	4.7 %	
	Colbalt-60 215 $\mu\text{Sv}\cdot\text{h}^{-1}$ to 11.8 $\text{mSv}\cdot\text{h}^{-1}$	4.7 %	



4382
Accredited to
ISO/IEC 17025:2005

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

James Fisher Nuclear Limited trading as James Fisher Inspection and Measurement Services

Issue No: 004 Issue date: 24 December 2010

Calibration performed at main address only

Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty (k=2)	Remarks
Personal dose equivalent Hp(10)	Americium 241 50 $\mu\text{Sv.h}^{-1}$ to 1.2 mSv.h^{-1} Caesium-137 2.7 $\mu\text{Sv.h}^{-1}$ to 2.7 Sv.h^{-1} Colbalt-60 215 $\mu\text{Sv.h}^{-1}$ to 11.8 mSv.h^{-1}	6.5 % 4.7 % 4.7 %	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)
Measurement of surface emission rates p.s^{-1}	Alpha emitting nuclides Americium 241 Thorium 230 Plutonium-239 Beta emitting nuclides Chlorine 36 Carbon 14 Strontium-90	4.25 % 4.25 % 4.25 % 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.
END			