Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

0477

Accredited to ISO/IEC 17025:2005

Dstl Radiation Protection Services

Issue No: 013 **Issue date:** 30 June 2010

At the Institute of Naval Medicine
Crescent Road
Alverstoke
Gosport
Hampshire
PO12 2DL

Contact: Mr A French
Tel: +44 (0)239 276 8010
Fax: +44 (0)239 276 8265
E-Mail: afrench@dstl.gov.uk
Website:

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
AIR KERMA RATE	^{137}Cs: 2.0 μGyh^{-1} to 1.0 Gyh^{-1} ^{60}Co: 35 μGyh^{-1} to 20 mGyh^{-1} ^{241}Am: 5 μGyh^{-1} to 200 μGyh^{-1}	 3.0 % 3.0 % 5.0 %	Air Kerma and Ambient dose Equivalent rate fields generated in accordance with ISO 4037-1 (1966) Dosimetry and conversion coefficients conform to ISO 4037-2 (1997) and ISO 4037-3 (1999)
AMBIENT DOSE EQUIVALENT RATE	^{137}Cs: 2.5 μSvh^{-1} to 1.2 Svh^{-1} ^{60}Co: 40 μSvh^{-1} to 23 mSvh^{-1} ^{241}Am: 9 μSvh^{-1} to 350 μSvh^{-1}	 3.0 % 3.0 % 5.0 %	
PERSONAL DOSE EQUIVALENT:			
PERFORMANCE TESTING OF DOSIMETRY SERVICES FOR EXTERNAL, WHOLE BODY GAMMA RADIATION;	^{137}Cs:to HSE Protocols	Uncertainties for ^{137}Cs Air Kerma: 3.0 %	
PERFORMANCE TESTING OF DOSIMETRY SERVICES FOR EXTREMITY/SKIN GAMMA RADIATION;	As above	As above	
PERFORMANCE TESTING OF ACCIDENT DOSIMETRY SERVICES - WHOLE BODY GAMMA RADIATION;	As above	As above	
ROUTINE IRRADIATION OF PERSONAL DOSEMETERS	As above	As above	

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Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty (k = 2)	Remarks
SURFACE CONTAMINATION MONITOR RESPONSE: ALPHA (α) CONTAMINATION BETA (β) CONTAMINATION GAMMA (γ) AND X-RAY CONTAMINATION Statutory tests, including: Test before first use; Periodic tests	Alpha-emitting nuclides: ^{241}Am, ^{238}Pu, ^{238}U, ^{230}Th Beta-emitting nuclides: ^{90}Sr/^{90}Y, ^{147}Pm, ^{36}Cl, ^{14}C, ^{60}Co, ^{137}Cs, ^{63}Ni Photon-emitting nuclides: ^{55}Fe, ^{238}Pu, ^{129}I, ^{241}Am, ^{57}Co, ^{137}Cs, ^{60}Co	5.0 % to 15 % depending upon monitor type	
END			