Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK



Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (<i>k</i> = 2)	Remarks
AIR KERMA RATE	¹³⁷ Cs 1 μGyh ⁻¹ to 10 μGyh ⁻¹ 10 μGyh ⁻¹ to 160 mGyh ⁻¹	6.0% 4.0%	
	⁶⁰ Co 5 μGyh- ¹ to 12 μGyh ⁻¹ 180 μGyh ⁻¹ to 6.0 mGyh ⁻¹	6.0% 4.0 %	Instruments can be calibrated in accordance with the scheduled measured guantities and
	²⁴¹ Am 10 µGyh-1 to 1 mGyh⁻ ¹	6.0%	ranges
AMBIENT DOSE EQUIVALENT RATE	¹³⁷ Cs 1 μSvh ⁻¹ to 10 μSvh ⁻¹ 10 μSvh ⁻¹ to 192 mSvh ⁻¹	6.0% 4.0 %	Calibration process is completed as per the
	⁶⁰ Co 5 μSvh- ¹ to 14 mSvh ⁻¹ 200 μSvh- ¹ to 7.0 mSvh ⁻¹	6.0% 4.0 %	
	²⁴¹ Am 18 µSvh ⁻¹ to 1.8 mSvh ⁻¹	6.0%	
PERSONEL DOSE EQUIVALENT RATE	¹³⁷ Cs 1 μSvh ⁻¹ to 10 μSvh ⁻¹ 10 μSvh ⁻¹ to 170 mSvh ⁻¹	6.0% 4.0 %	
	²⁴¹ Am 19 µSvh⁻¹ to 2.0 mSvh⁻¹	6.0%	
SURFACE CONTAMINATION	Beta emitting nuclides ¹⁴ C, ⁹⁰ Sr, ³⁶ Cl	7%	
RESPONSE	Alpha emitting nuclides ²⁴¹ Am	8%	
END			



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Nuclear Restoration Services Limited

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Accredited to ISO/IEC 17025:2017

Calibration performed at main address only

Appendix - Calibration and Measurement Capabilities

Introduction

The definitive statement of the accreditation status of a calibration laboratory is the Accreditation Certificate and the associated Schedule of Accreditation. This Schedule of Accreditation is a critical document, as it defines the measurement capabilities, ranges and boundaries of the calibration activities for which the organisation holds accreditation.

Calibration and Measurement Capabilities (CMCs)

The capabilities provided by accredited calibration laboratories are described by the Calibration and Measurement Capability (CMC), which expresses the lowest measurement uncertainty that can be achieved during a calibration. If a particular device under calibration itself contributes significantly to the uncertainty (for example, if it has limited resolution or exhibits significant non-repeatability) then the uncertainty quoted on a calibration certificate will be increased to account for such factors.

The CMC is normally used to describe the uncertainty that appears in an accredited calibration laboratory's schedule of accreditation and is the uncertainty for which the laboratory has been accredited using the procedure that was the subject of assessment. The measurement uncertainty is calculated according to the procedures given in the GUM and is normally stated as an expanded uncertainty at a coverage probability of 95 %, which usually requires the use of a coverage factor of k = 2. An accredited laboratory is not permitted to quote an uncertainty that is smaller than the published measurement uncertainty in certificates issued under its accreditation.

Expression of CMCs - symbols and units

It should be noted that the percentage symbol (%) represents the number 0.01. In cases where the measurement uncertainty is stated as a percentage, this is to be interpreted as meaning percentage of the measurand. Thus, for example, a measurement uncertainty of 1.5 % means $1.5 \times 0.01 \times q$, where q is the quantity value.

The notation Q[a, b] stands for the root-sum-square of the terms between brackets: $Q[a, b] = [a^2 + b^2]^{1/2}$