


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS CALIBRATION</p> <p>0542</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Babcock Nuclear Ltd</h3> <p>Issue No: 014 Issue date: 03 March 2011</p>	
	<p>A11/A12</p> <p>Berkeley Centre</p> <p>Berkeley</p> <p>Gloucestershire</p> <p>GL13 9FB</p>	<p>Contact: Mr S B Newton</p> <p>Tel: +44 (0)1453 812867</p> <p>Fax: +44 (0)1453 812112</p> <p>E-Mail: steve.b.newton@babcock.co.uk</p> <p>Website: www.babcock.co.uk</p>
<p>Calibration performed at the above address only</p>		

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	⁶⁰ Co 10 μGyh^{-1} to 950 mGyh^{-1}	3.0 %	
	¹³⁷ Cs 25 μGyh^{-1} to 75 mGyh^{-1} 0.28 μGyh^{-1} to 25 μGyh^{-1}	3.0 % 3.2 %	
	²⁴¹ Am 14 μGyh^{-1} to 1.3 mGyh^{-1}	3.8 %	
	²²⁶ Ra 7.3 μGyh^{-1} to 7.8 mGyh^{-1} 0.04 μGyh^{-1} to 7.3 μGyh^{-1}	7.4 % 17 %	
AMBIENT DOSE EQUIVALENT RATE	⁶⁰ Co 12 μSvh^{-1} to 1.1 Svh^{-1}	3.0 %	
	¹³⁷ Cs 30 μSvh^{-1} to 90 mSvh^{-1} 0.33 μSvh^{-1} to 30 μSvh^{-1}	3.0 % 3.2 %	
	²⁴¹ Am 25 μSvh^{-1} to 2.3 mSvh^{-1}	3.8 %	
PERSONAL DOSE EQUIVALENT RATE ($H_p(10)$):	⁶⁰ Co 12 μSvh^{-1} to 1.1 Svh^{-1}	5.9 %	
Performance testing of Electronic Personal Dosimeters (EPDs) for External Radiations	¹³⁷ Cs 0.33 μSvh^{-1} to 90 mSvh^{-1}	4.3 %	
	²⁴¹ Am 27 μSvh^{-1} to 2.5 mSvh^{-1}	6.1 %	



0542
Accredited to
ISO/IEC 17025:2005

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

Babcock Nuclear Ltd
Issue No: 014 Issue date: 03 March 2011

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
TRITIUM MONITORS ACTIVITY Concentration of Tritium in Air	0.01 MBqm ⁻³ to 200 MBqm ⁻³	6.0%	The calibration of monitors which measure the activity of airborne tritium per unit volume. A known concentration of tritium gas and a bespoke rig are used.
END			