



0210



Certificate Number:
1219018PW



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10 MAY 2012

Date of Issue:
15 May 2012

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HSE ADS ACCIDENT PERFORMANCE TEST REPORT

Issued By: Nuvia Limited - A56 Winfrith, DT2 8WQ Tel: 01305 755221 www.rpiservices.co.uk

Dosimetry service (ADS) Landauer Europe Ltd
Contact name Dr C Perks
Job Reference JRW2145

Postcode OX5 1JE
Dosemeter type Luxel+

Receipt of dosimeters 19 April 2012

Receipt of dosimeters by dosimetry service 08 May 12 09:45

Date of irradiation 02 May 2012

Receipt of 8 hour report by test laboratory 08 May 12 12:38

Dispatch of dosimeters 03 May 2012

Dosimetry service response time 2 hrs 53 mins

Date of receipt of final ADS readings: 10 May 2012

Results						
Dosemeter ID	True Absorbed Dose (mGy)	Reported Doses from ADS		Ratio	Bias (%)	Relative Standard Deviation (%)
		< 8 hour (mGy)	Final (mGy)			
1990797A	265	<1000	262	0.987	-0.60	1.86
1990800A		<1000	262	0.987		
1990801A		<1000	259	0.976		
1990807A		<1000	264	0.995		
1990809A		<1000	272	1.025		
1990796A	2946	>1000	3021	1.025	3.94	0.79
1990798A		>1000	3066	1.041		
1990799A		>1000	3075	1.044		
1990805A		>1000	3065	1.040		
1990810A		>1000	3083	1.047		

Overall mean bias 1.67%

Overall relative standard deviation 2.70%

Performance Test Result PASS Band A

Signature of Qualified Person

Andrew Galpin IEng MIET

Notes:

1. Air kerma rates are derived from measurements made by a dosimeter calibrated at the NPL.
2. The uncertainty in air kerma rate is +/- 3%, and is for a confidence probability of not less than 95%.
3. A factor of 1.1 mGy per mGy is used to convert air kerma values to absorbed dose to tissue. This factor is derived from data published by UKAS and the NRPB.
4. The dosimeters are irradiated in free air mounted on an expanded polystyrene board, using a collimated 137Cs source.

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