Whole body dosemeter intercomparison IC2018ph

Certificate of Participation

EURADOS Intercomparison 2018 for whole body dosemeters (IC2018ph)

Certificate Number:

EURADOS-2018-S074/2018 for system S074/2018

Number of pages:

Date of Issue:

January 15, 2019

Participating Institute:

DOZIMED SRL, Romania

Dosimetry System:

Panasonic UD802AT, ODA 166/2018, ISO 17025 sccredited -

RENAR LI 1047/2015

Reporting number:

38 (this anonymous number will be used in further publications)

Intercomparison procedure:

The EURADOS Intercomparison 2018 for whole body dosemeters was managed and coordinated on behalf of EURADOS by the WG2 Intercomparison Organization Group (OG). The OG established the irradiation plan and announced the intercomparison, including the range limits of the doses and radiation qualities, in February 2018.

The IC2018ph on-line platform (IOP) was used by the participants for registration and for all data transfer between the participants and the OG Coordinator. Participants were required to provide details of their dosemeters (including the dosemeter reference point) on the IOP. The participants then sent their dosemeters to the Coordinator (May

2018). The Coordinator checked the correct labelling of the

dosemeters and transferred all dosemeters, along with the technical details provided by the participants, to the two irradiation laboratories. The dosemeters were irradiated according to the irradiation plan and

returned to the Coordinator (September 2018).

The Coordinator then returned the dosemeters to the participants and indicated which dosemeters had not been irradiated. The participants were instructed to follow normal routine procedures as far as possible. The participants then sent the results of the dosemeter readings to the Coordinator (November 2018). After receipt of all the participants' results, the Coordinator sent the appropriate irradiation

data to each participant.

Number of participants:

101 institutes participated in IC2018ph with a total of 121 systems.

Coordinator:

A.McWhan, W.Dobrzynska, S.Eliasik (Cavendish Nuclear Ltd.,

Berkrley ADS, Berkeley, GI13 9FB Gloucestershire, United Kingdom)

Intercomparison results:

See the table on pages 2 to 4 of this certificate.

Irradiation data:

See the attached certificate of the irradiation laboratories No:

3320722-S074/2018 and DOS /2107-S074/2018

Participant results:

See the attached signed dose report provided by the participant.

On behalf of the intercomparison Organization Group:

On behalf of EURADOS:

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Andrew M'Whan

Andrew McWhan

Werner Rühm

Whole body dosemeter intercomparison IC2018ph

Coordinator

Chairperson

Result of the Intercomparison IC2018ph (Dosimetry System S074/2018)

Dosemeter ID Dosemeter ID Quality S074/2018–6 501745 Co-60 H	Quantity $H_p(10)$ $H_p(10)$ $H_p(10)$	Participant's Value 476.000 mSv 483.420 mSv	Reference Value 390.000 mSv	Ratio 1.22
	H _p (10)			1.22
S074/2018–10 523476 Co-60 H	-	483.420 mSv		4
	$H_{p}(10)$		390.000 mSv	1.24
S074/2018–16 504979 Co-60 H		4.230 mSv	4.300 mSv	0.98
S074/2018–19 499965 Co-60 H	H _p (10)	4.020 mSv	4.300 mSv	0.93
S074/2018–27 495971 Co-60 H	H _p (10)	70.810 mSv	57.000 mSv	1.24
S074/2018–31 515641 Co-60 H	H _p (10)	73.530 mSv	57.000 mSv	1.29
S074/2018–15 494766 Cs-137 H	$H_{p}(10)$	0.710 mSv	0.700 mSv	1.01
S074/2018–17 503725 Cs-137 H ₁	H _p (10)	0.680 mSv	0.700 mSv	0.97
S074/2018–18 509855 Cs-137 H ₁	$H_{p}(10)$	6.160 mSv	5.200 mSv	1.18
S074/2018–21 514720 Cs-137 H ₁	H _p (10)	5.720 mSv	5.200 mSv	1.10
S074/2018–30 504892 Cs-137 H ₁	H _p (10)	5.860 mSv	5.200 mSv	1.13
S074/2018–34 501767 Cs-137 H ₁	H _p (10)	5.750 mSv	5.200 mSv	1.11
S074/2018–1 510031 N-150 & Cs-137 H ₁	H _p (10)	6.410 mSv	6.800 mSv	0.94
S074/2018–2 522425 N-150 & Cs-137 H ₁	H _p (10)	7.020 mSv	6.800 mSv	1.03
S074/2018–9 501937 N-150(60°) H ₁	H _p (10)	1.900 mSv	1.734 mSv	1.10
S074/2018–28 501721 N-150(60°) H _F	H _p (10)	1.920 mSv	1.734 mSv	1.11
S074/2018–5 522793 N-60(0°) H _g	H _p (10)	1.220 mSv	1.272 mSv	0.96
S074/2018–12 501025 N-60(0°) H _r	H _p (10)	1.260 mSv	1.272 mSv	0.99
S074/2018–23 521272 N-60(60°) H _r	H _p (10)	1.710 mSv	1.506 mSv	1.14
S074/2018–25 508820 N-60(60°) H _F	H _p (10)	1.580 mSv	1.506 mSv	1.05
S074/2018–11 523026 W-110(0°) H _F	H _p (10)	4.250 mSv	5.002 mSv	0.85
S074/2018–14 523377 W-110(0°) H _p	H _p (10)	4.370 mSv	5.002 mSv	0.87

Radiation Qualities and average photon energy (according to ISO 4037-1):

Gamma Radiation:

S-Cs:

662 keV

S-Co:

1250 keV

X-Rays:

N-60:

48 keV

W-110

79 keV

N-150

118 keV



Whole body dosemeter intercomparison IC2018ph

Result of the Intercomparison IC2018ph (Dosimetry System S074/2018, continued)

EURADOS Dosemeter ID	Participant's Dosemeter ID	Radiation Quality
S074/2018–3	521846	not irradiated
S074/2018–4	499950	not irradiated
S074/2018-7	514399	not irradiated
S074/2018–8	522863	not irradiated
S074/2018–13	501394	not irradiated
S074/2018–20	514018	not irradiated
S074/2018–22	511774	not irradiated
S074/2018–24	501628	not irradiated
S074/2018–26	499758	not irradiated
S074/2018–29	504110	not irradiated
S074/2018-32	493383	not irradiated
S074/2018–33	522754	not irradiated