

## DOSE REPORT USER GUIDE

The dosimetry results presented in the "participant dose report" are in alphabetical order and by type (participant, visitor and control). The area dosimetry results are presented in the part "area dose report". This report is covered by the COFRAC accreditation Essais, n°1-1545, available on [www.cofrac.fr](http://www.cofrac.fr) (obtained against the NF EN ISO/CEI 17025:2017 standard), except for values in bold orange or in italics (see table below).

The internal measurement procedures used for reading dosimeters are for:

The IPLUS the CAR-TEC-001, the Neutrak the CAR-TEC-002, the MonoRing the CAR-TEC-003 and the Vision the CAR-TEC-004

### Dose report's keys

<b>Participant identification</b>	
• LANDAUER participant n°	Number assigned by LANDAUER to a participant
• Participant n°	Customer-customised field (numbers or letters) for your Radiation protection expert to assign to a participant (blank if no data is provided) - Data provided by the customer
<b>Dosimeter identification</b>	<ul style="list-style-type: none"> <li>• Type of dosimeter (e.g: IPLUS) + periodicity (e.g: 1 MONTH for monthly) + type of clip (e.g: ALLIGATOR for an alligator clip) + wearing position (e.g: CHEST)</li> <li>• Dosimeter reference : DAFAMPPAAA100, for example</li> </ul>
<b>Type of radiation</b>	Type of ionising radiation. Where several rays (X, beta, gamma, neutrons) have been detected, the first line provides the overall dose by dosimeter, and the following line specify the doses by type of radiation (cf table key of codes and colours used - Unit Type of rays).
<b>Individual or area dose equivalent</b>	Operational quantity for external occupational monitoring expressed in millisievert (1 millisievert = 1mSv = 0.001Sv)
• Monitoring period	Period during which the dosimeter has been worn
• Year to date	Cumulative total over 12 consecutive months of the monitoring period, subject to the dosimeters reception and analysis <ul style="list-style-type: none"> <li>• For one participant, cumulative total established from the participant number for all monitoring subscriptions.</li> <li>• No combined total for the area and control dosimeters</li> </ul>
• Authorized by	Initials of the LANDAUER employee who has validated the results
• Hp(10)	Personal dose equivalent at 10 mm depth, used to provide an estimate of effective dose
• Hp(0.07)	Personal dose equivalent at 0.07 mm depth, used to provide an estimate of skin and extremities dose
• Hp(3)	- <i>Optional column according to the order or not of Vision dosimeter for the subdivision</i> - Personal dose equivalent at 3 mm depth, used to provide an estimate of the lens of the eye dose
• H*(10)	Area dose equivalent H*(10), used to provide an estimate of area dose

### Codes and colours used

<b>Personal or ambient dose equivalent</b>	M	Dose equivalent for the monitoring period below the minimum reporting threshold of dosimeter <ul style="list-style-type: none"> <li>• Inlight / IPLUS : 0.05 mSv for X, beta and rays</li> <li>• MonoRing : 0.10 mSv for X, beta and gamma rays</li> <li>• Vision : 0.10 mSv for X, beta and gamma rays</li> <li>• Neutrak : 0.10 mSv for neutrons</li> </ul>
	Bold red	Personal dose equivalent over 12 consecutive months above or equal to the dose limits of category A indicated below on the summary table
	Bold black	Personal dose equivalent over 12 consecutive months above or equal to the dose limits of category B indicated below on the summary table
<b>Information</b>	Green	Data updated since the previous version of the dose report considered
	Blue	Dose updated since the previous version of the dose report considered
	Bold orange	Dose updated since the previous version of the dose report considered and validated by occupational physician from an unaccredited dose measurement or evaluation process. LANDAUER cannot be held responsible for this value
	Italic	Doses from a measurement process outside COFRAC Accreditation NF EN ISO / IEC 17025:2017
<b>Radiation type</b>	P	Total of registered doses for X, beta and gamma rays
	NF	Total of registered doses for intermediate and fast neutrons
	NT	Total of registered doses for thermal neutrons (or slow neutrons)
	N	Total of registered doses for the intermediate, fast (NF) and thermal (NT) neutrons N= NF+NT
	PN	Total of registered doses for the X, beta, gamma (P) rays and neutrons (NF or NT) PN= P+NF or PN=P+NF+NT
<b>Anomaly code</b>	White black background	Invalid ID number. Please update the carrier via your LANDAUER direct space or by email to our Customer Service, specifying your customer number (FO...)
	NR	Dosimeter not returned to our laboratory
	(DE)	Impaired but analysable dosimeter detector
	DE	Impaired and non-analysable dosimeter detector
	DP	Dosimeter impaired during the analysis process, and not analysable
	EI	Inhomogeneous exposure of the dosimeter; dose assessment not possible

### Dose limits over twelve consecutive months

Category or type of workers involved	Whole body Hp(10)	Extremities Hp(0.07) (hands, wrists, etc.)	All cm <sup>2</sup> of skin Hp(0.07)	Eye lens Hp(3)
<b>A workers</b>	20 mSv	500 mSv	500 mSv	20 mSv
<b>B workers</b>	6 mSv	150 mSv	150 mSv	15 mSv
<b>Young workers (16 or 17 years)</b>	6 mSv	150 mSv	150 mSv	15 mSv

