

How to Read Your Dosimetry Report

ACCOUNT 12345 GROUP 2 WEAR PERIODS ENDING AUGUST 2024 VER 2 PUBLISHED 09/02/2024 REPORT No 20012514

Your Business Name | Badges - Monthly

PIN	NAME	CALCULATION	DOSIMETER		WEAR PERIOD	NOTES	--MILLIREM--	-----THIS PERIOD-----			-----THIS QUARTER-----			-----THIS YEAR-----			-----LIFETIME-----		
			TYPE	LOC			NEU	DDE	LDE	SDE	DDE	LDE	SDE	DDE	LDE	SDE	DDE	LDE	SDE
1	2	3	5		6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Report Key

- 1

RDC assigned wearer identification number
- 2

Employee Name, Area Monitor Location, or Other Reference Designation
- 3

Calculation Methodology Used for Assigned Dose Computation
- 4

Dosimeter Type

NVLAP Accredited Dosimetry Designations

 - 05: TLD XBG Finger Ring
 - 82: TLD XGBN
 - 82H/83H: TLD XBGN
 - 82WH: TLD XBGN Wrist Badge
 - 84: OSL XG

Non-Accredited Dosimetry Designations

 - 82E: TLD Environmental
 - 83E: TLD Environmental with Track Etch
 - 84E: OSL Environmental
 - 85E: OSL Environmental with Track Etch
- 5

Location Code – where on the body the dosimeter is worn

- CH: Chest
 - CL: Collar
 - FM: Fetal Monitor
 - WS: Waist

- RU: Right Hand or Upper Extremity
 - LU: Left Hand or Upper Extremity
 - EV: Environmental or Area Monitor
 - XC: Control
- 6

The Wear Period the Dosimeter Monitored
- 7

Notes Pertaining to the Specific Badge
- 8

Neutron Component of Deep Dose

When the effective energy of neutrons is not provided to RDC, the dose in millirem is based on a calibration to a moderated Cf-252 neutron source.
- 9

Deep Dose Equivalent (DDE)

Applies to external whole body exposure and is the dose equivalent at a tissue depth of 1 centimeter (1000 mg/cm²). Dose in millirem is reported for photon energies from approximately 20 keV to 6 MeV. Neutron dose included if present.
- 10

Eye Dose Equivalent (LDE)

Applies to the external exposure to the lens of the eye and is the dose equivalent at a tissue depth of 0.3 centimeters (300 mg/cm²). Includes dose in millirem for beta particles and photons. Neutron dose included if present.
- 11

Shallow Dose Equivalent (SDE)

Applies to the external exposure of the skin or an extremity and is the dose equivalent at a tissue depth of 0.007 centimeters (7 mg/cm²) averaged over an area of 1 square centimeter. Includes dose in millirem for beta particles and photons. Extremity doses are reported in this column based on 662 keV photons unless other energy or radiation source information is available. Neutron dose included if present.
- 12

Quarter to Date Cumulative Deep Dose*
- 13

Quarter to Date Cumulative Eye Dose*
- 14

Quarter to Date Cumulative Shallow Dose*
- 15

Year to Date Cumulative Deep Dose*
- 16

Year to Date Cumulative Eye Dose*
- 17

Year to Date Cumulative Shallow Dose*
- 18

Lifetime Cumulative Deep Dose*
- 19

Lifetime Cumulative Eye Dose*
- 20

Lifetime Cumulative Shallow Dose*
- *Neutron dose included if present

Did you know?

Radiation Detection Company has provided industry-leading dosimetry service to over 31,000 organizations since 1949.

Preview a sample dose report on the next page 

How to Read Your Dosimetry Report

1

2

ACCOUNT 12345	GROUP 2	WEAR PERIODS ENDING AUGUST 2024	VER 2	PUBLISHED 09/02/2024	REPORT No 20012514	MONTHLY DOSIMETRY REPORT																	
Your Business Name Badges - Monthly																							
3																							
PIN	NAME	CALCULATION	DOSIMETER TYPE LOC	WEAR PERIOD	NOTES	--MILLIREM-- NEU	-----THIS PERIOD----- DDE LDE SDE			-----THIS QUARTER----- DDE LDE SDE			-----THIS YEAR----- DDE LDE SDE			-----LIFETIME----- DDE LDE SDE							
0001014	CONTROL - MONTHLY	Control Control	05 XC 82H XC	08/01/2024-08/31/2024 08/01/2024-08/31/2024	5 Control	NR NR	ND	ND	11 ND														
0001009	ANDERSON ALAN - BODY				UNR Body dose	NR				ND	ND	ND	ND	ND	ND	ND	ND	ND					
		Standard	82H CH	08/01/2024-08/31/2024																			
0001011	DAWSON HARRY - BODY				Body dose		125	125	125	125	125	125	125	125	125	125	125	125					
		Standard	82H CH	08/01/2024-08/31/2024																			
0001021	GONZALES SUSAN - BODY/RING				Body dose		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND					
					Extremity dose																		
		Standard	82H CH	08/01/2024-08/31/2024		NR	ND	ND	ND														
0001007	JOHNSON BOB - BODY	Standard	05 RU	08/01/2024-08/31/2024	Body dose	NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND					
0001008	LEE LORETTA - BODY	Standard	82H CH	08/01/2024-08/31/2024	Body dose	NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND					
0001002	RICHARDS CECIL - COLLAR				Body dose		20	73	74	20	73	74	20	73	74	20	73	74					
		Webster 1	82H CL	08/01/2024-08/31/2024		NR	67	73	74														
0001001	WILLIAMS WILMA - COLLAR/WAIST				Body dose		42	100	100	42	100	100	42	100	100	42	100	100					
		Webster 2	82H CL	08/01/2024-08/31/2024		NR	100	100	100														
		Webster 2	82H WS	08/01/2024-08/31/2024		NR	25	25	25														

5 Explanation of Notes

UNR UnReturned Badge

7 MultiGroup

The following wearers have been monitored in multiple wear groups. This section summarizes the results from all wear groups for each wearer.

PIN	NAME																	
0001008	LEE LORETTA - BODY	Body dose																

8 ALARA Notifications

The following wearers have received a dose that exceeds an ALARA threshold. See the threshold values on the final page of this report.

PIN	NAME	THRESHOLD																
0001021	DAWSON HARRY - BODY	Level 1	Body dose	125	125	125												

Important - Control Badge

The control badge should be kept in a low background location at your facility, never in the room where your source of radiation is located. Also, as the control badge is used in the calculation of dose, it should never be worn or re-assigned.

ALARA Notification Threshold Levels: Annualized Values (millirem)

	Level I	Level II	Level III
Deep	1250	2500	5000
Eye	3750	7500	15000
Shallow	12500	25000	50000
Extremity	12500	25000	50000



END OF REPORT

Results provided on this report relate only to the dosimeters listed for this reporting period. Radiation doses are reported in units of millirem. When no numerical dose is assigned, one of the following entries will be provided.

ND Not Detectable means that a dosimeter was processed but that the dose is below the minimum reportable dose. The minimum reportable dose is the minimum dose that can be identified by the dosimeter, and varies with the type of dosimeter and the radiation being monitored.

NR Not Required means no monitoring was required for that category, or that the dosimeter being reported does not monitor dose in that category.

MAX Dose > 1M mrem and cannot be reported due to space limitations. Please contact RDC for full dose values.

The annual occupational whole body dose limit (DDE, column 15) is 5000 millirem. The annual eye dose limit (LDE, column 16) is 15000 millirem. The annual shallow dose limit (SDE, column 17) is 50000 millirem. For information on the dose limits and definitions of terms used in this report, the client is referred to Part 20 of Title 10 of the Code of Federal Regulations (10CFR20). Limits for members of the public, minors and declared pregnant workers are different than those listed above.

Report Key

- Periodic reports are now just that. If you are looking for information on a "June dosimeter" (a dosimeter with a wear period ending in June), you will find it on your June report, regardless of the dosimeter return date.
- Each report generated has a version number. Always viewing the version with the highest number ensures you are looking at the most timely, accurate report.
- When returned with your dosimeters, the control dosimeter values are used in the calculation of your assigned dose. Control dose is reported for reference for This Period, QTD, YTD and Lifetime are not tracked for Control badges.
- Highlighted areas contain your assigned/effective dose for this report. It is representative of either a single dosimeter dose, the calculated dose of multiple dosimeters listed immediately underneath, or an Effective Dose Equivalent (EDE) calculation.
- Notes will be given an alpha or numeric code which is referenced at the end of the report for explanation. An example would be this "UNR" used to notate an UnReturned Badge.
- ND indicates that your dosimeter was processed, but the dose is below our minimum reportable dose of 10 millirem. NR indicates that the dosimeter does not monitor dose in that category.
- Users working in multiple groups should be tracked across all groups to ensure compliance to yearly exposure limits.
- ALARA Notifications can be found at the end of each report when a wearer exceeds ALARA limits for Level I, II, or III for the designated wear period. If you have a specific ALARA limit you would like to have set for you, please contact a Customer Care representative. We will be happy to make that adjustment for you.