

## Included with your Radiation Dosimetry Service

LANDAUER® standard Luxel®+ dosimetry services include the automatic exchange of dosimeters each wear period, processing and analysis of dosimeters, and standard radiation dosimetry reports (Standard Reports). Additional radiation dosimetry reports are available as stated below (Dosimetry Service).

### Standard Reports

Standard Reports cover each wear period and include cumulative radiation monitoring totals, a participant's identifying information, explanatory information, and other pertinent data useful in the management of a dosimetry program. These reports comply with NRC (Nuclear Regulatory Commission), OSHA (Occupational Safety and Health Administration), and DOE (Department of Energy) regulations. To maintain privacy and data security, all Standard Reports are delivered electronically via myLDR.com, a secured, online account management portal. Report notifications will be sent to the Report To and/or Ship To email address reflected on the account.

### Exposure Notification Alerts

Exposure Notification Alerts are set at an account, a subaccount, and/or at an individual participant's level by your facility and can be customized to what is most appropriate for your account.

You and your facility are solely responsible for detecting any instances of a participant's exposure to radiation and taking any action needed, and monitoring or interpreting of reports, results, data, or any other information derived from or transmitted based on the Dosimetry Services.

### Control Dosimeters

A control dosimeter is included at no charge in each shipment to record non-occupational radiation exposure while in-transit and from ambient background radiation onsite.

## Additional Services and Fees

### Set Up Fee

There is a one-time setup fee of \$18.90 per participant for accounts with less than 40 people, and a onetime setup fee of \$5.20 per participant for accounts of more than 40 people.

### Additional Dosimeters

Dosimeters shipped separately from the regularly scheduled shipment incur a handling fee of \$17.70 per dosimeter.

### One Site or Multiple Site Subaccounts

An account can be divided into separate groups for shipping to one site or to multiple sites. For multiple sites, each subaccount

is reported separately on Standard Reports and is sorted by a participant's name or number. The subaccount name and/or code is indicated on each dosimeter. Department groupings are available at a cost of \$14.00 per subaccount (single site) and \$17.70 per subaccount (multiple sites).

For accounts without subaccounts, a \$14.00 sort and pack fee will be applied to all shipments of dosimeters (referred to on the invoice as Sort and Pack Fee, Single Ship Site).

### Exchange Frequencies

Available exchange intervals are weekly, bi-weekly, monthly, bimonthly (once every two months), quarterly, semi-annual, annual, bi-annual (emergency response) and one-time only as indicated on the Quote.

### Online Account Management - myLDR2.0.com

LANDAUER's online account management tool myLDR2.0.com allows you to manage your dosimetry program and access dose data online. Dashboards make accessing data simple and convenient. All of your information is available to you Monday through Saturday 24 hours per day, and Sunday 20 hours per day.

myLDR.2.0.com has secure data encryption with full and limited log-in access levels with the following interactive services available:

- Add, change, remove, or view subaccounts, participants, and dosimeters
- Track dosimeter shipments from LANDAUER
- Easily retrieve and print invoices and reports, with E-signature functionality
- View and download reports
- Receive alerts (i.e. ALARA & Exposure Notification)
- Pay open invoices online with a checking account or credit card
- Update shipping, billing, and reporting addresses
- Give individual participants access to personal dose information with Individual Dose Report

### Duplicate Copies

Duplicate copies of standard dosimetry reports are available for 6¢ per participant to the same site, 10¢ per participant to a different site.

### Expedited Processing

Expedited processing is available for dosimeters. An additional processing charge of \$162 per occurrence plus \$43 per dosimeter is assessed.

### Unreturned Dosimeter Fee

An unreturned dosimeter fee of \$15.00 is charged for each dosimeter not returned within the applicable return period, even if the dosimeter is subsequently returned after the end of that applicable return period.

## Other Products to Help Alleviate Your Work Load

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### Badge Boards

Conveniently store dosimeters when not in use:

- Small (holds up to 14 dosimeters) \$75.20 each
- Medium (holds up to 30 dosimeters) \$92.60 each
- Large (holds up to 45 dosimeters) \$107.70 each

Plus shipping charge

### RadFacts Dashboards

RadFacts Dashboards are available via myLDR.com and provide tools to help you quickly focus on key radiation safety issues. You have the ability to interact with the charts as well as filter and sort grids of data. Dashboards are available for general Year-to-Date Performance, ALARA performance, dosimeter return compliance, pregnant participants, unused dosimeters, and dose analysis.

RadFacts is available for 55¢ per participant a month for accounts with less than 200 individual participants, 45¢ per participant a month for accounts with less than 1,000 individual participants, and 35¢ per participant a month for accounts over 1,000 individual participants. For other pricing, please contact customer service.

### LANDAUER® Academy

LANDAUER Academy provides educational courses and content for professionals working around radiation. Authored and peer-reviewed by board-certified medical physicists, courses provide engaging content and effective instruction. Courses are designed to address compliance requirements of The Joint Commission, OSHA, State Regulations, and more. Individual courses have been approved for continuing education credit by ASRT.

Visit [landaueracademy.com](http://landaueracademy.com) for full course listing and pricing.

### Radiation Safety Services

Landauer's Radiation Safety Support Service is a customizable program designed to take the stress out of maintaining your radiation protection program. This service gives radiation safety personnel access to advantageous resources and a team of coveted industry experts with decades of combined radiation safety experience.

### Diagnostic Imaging Physics

LANDAUER Medical Physics® imaging services help organizations effectively manage their equipment, procedures, accreditation, and regulatory compliance. The LANDAUER team of certified medical physicists offers high-quality consulting, providing access to some of the most trusted industry experts. These services help facilities ensure they're in compliance with federal and state regulations and running a program with top-tier policies and practices.

## Popular Reports

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In addition to our standard radiation dosimetry report, LANDAUER has optional reports and services designed to help simplify the management of your dosimetry program.

### Equivalent Form 5

This report details dose history for an individual participant for the year at a given location, which satisfies the requirement for an annual report to worker participants, the NRC Form 5, and other

regulatory bodies (check with your regulatory agency for your specific requirements). Reports are generated annually after the close of a calendar year or quarterly with current data up to the last wear period reported.

**Rate: Quarterly \$3.10 per participant; Annual \$4.70 per participant.**

### Termination Report Service

This service provides an Equivalent Form 5 for presentation to the worker participant when an individual participant's service or monitoring is terminated from LANDAUER's Dosimetry Service. Expedited report generation is available upon request. Charge incurs only upon generation of the report.

**Rate: \$4.70 per participant.**

### Fetal Monitor Service

Easily track exposure of a declared pregnant participant and embryo/fetus by reporting exposures of the mother wearing a whole-body dosimeter and an additional fetal dosimeter. The monthly report lists estimated dose from conception to declaration, rolling exposure history by month for both mother and child, and accumulated fetal totals for the gestation period. The addition of a fetal dosimeter also generates an additional page to the standard radiation dosimetry report that indicates only the exposure to the declared pregnant participant and the embryo/fetus.

**Rate: \$54.70 per month for the account, exclusive of any new dosimeters that may be added to the service.**

### Signature Suite™

Signature Suite is a compliance documentation upgrade available for myLDR that simplifies record-keeping, reduces manual activities around reporting, and saves valuable time! By enabling subscribers to leverage a completely digital workflow, Signature Suite reduces the time, risk, and effort involved with signing and archiving reports, providing reports to participants, and creating a report for inspectors that documents this activity.

**Rate: Signature Suite is 10¢ per participant.**

## ALARA Compliance

### Personalized ALARA Memos

ALARA memo service generates a memo for each individual participant whose dose levels exceeded the quarter's ALARA (As Low as Reasonably Achievable) levels. ALARA levels 1 and 2 can be set by your facility, or NRC guidelines can be used. The personalized memo stating the exposure and level exceeded is sent to the Radiation Safety Officer for review and can then be presented to the individual participant. Level 2 memos include a questionnaire to help your facility as you investigate the exposure.

**Rate \$110.70 per year base fee plus \$4.50 per memo.**

### ALARA Detailed Recaps

ALARA reports list all individual participants with their exposure histories and are available quarterly and annually. Quarterly reports show which individual participants exceeded ALARA Levels 1 and 2 for the quarter and year to date, while annual reports quickly show trends by individual participants and departments for the year. Reports track both individual and collective dose. ALARA levels can be set or NRC guidelines can be used.

**Quarterly Report Rate: \$51.70 per quarter base fee plus 30¢ per participant; Annual Report Rate: \$68.30 per year base fee plus 45¢ per participant.**

# Other Dosimeters

## Area

Area monitors measure exposure to a defined area rather than to a participant. LANDAUER dosimeters can be designated specifically as an area monitor.

## Ring

LANDAUER's Saturn™ Ring dosimeter uses thermoluminescent (TLD) technology and measures radiation exposure with a lithium fluoride chip. The Saturn™ TLD Ring dosimeter for x, gamma, and beta dosimetry is \$228.60 annually per participant for accounts with 99 or less people, and \$204.00 annually per participant for accounts with 100 or more people.

## Neutrak® Neutron

The Neutrak dosimeter provides neutron radiation monitoring with CR-39 and Track Etch® technology and can be sealed inside of the Luxel+ blister pack.

Fast Neutron with Luxel+ service is the annual investment per participant for Luxel+ service plus an additional fee annually per participant for the Neutron. For example, for accounts with 15 individual participants the total annual service price per participant is \$406.20.

Thermal, Intermediate, and Fast Neutron with Luxel+ service is the annual investment per participant for Luxel+ service plus an additional fee annually per participant for the Neutron. For example, for accounts with 15 individual participants the total annual service price per participant is \$430.80.

## InLight® Environmental

The InLight Environmental OSL dosimeter (regular EX9 and high-sensitivity EX are available) is designed specifically for low-level area indoor and/or outdoor monitoring. Dosimeters are priced per dosimeter each time dosimeters are shipped. From 1 to 10 dosimeters is \$77.10 per dosimeter. More than 10 dosimeters is \$60.00 per dosimeter.

## Special and Other Services

LANDAUER can support special dosimetry studies where conventional personnel dosimetry is inappropriate. Special Services can provide much tighter tolerances, special calibrations and other non-routine functions. Examples of special services include blood bank irradiation studies, high dose dosimetry, source calibration, and area monitoring.

Annual Investment Per Luxel+ Dosimeter	
Number of Monitored Individuals	Annual Investment
1	\$691.80
2	\$451.20
3	\$341.40
4	\$283.20
5	\$252.00
6-8	\$221.40
9-15	\$202.20
16-24	\$181.80
25-34	\$165.00
35-74	\$143.40
75-99	\$131.40
100+	\$93.00

To avoid delays in receipt of shipments and processing of dosimeters, your facility must apply the correct amount for postage. All packages returned to LANDAUER with insufficient postage will be assessed a \$17.00 fee. When self-metering, select “parcel” as the package type - NOT envelope, letter, or flat rate. To ensure fastest delivery, you may use the enclosed mailing label; however, there is an \$12.00 charge per package for using this label.