

## Emergency Response Radiation Monitoring Program



The RadWatch-RadLight Program, developed by Landauer, is the latest in tactical/field radiation monitoring technology - excellent for first responders.

The RadWatch dosimeter is designed to operate under field conditions and contains both primary and backup detectors and an RFID chip, which stores dose results and data from the most recent analysis. All analytical data is stored in the RadLight Reader for download to a computer via a USB connection, facilitating additional analysis and reporting. Dosimeters are inserted into the reader's drawer assembly, which automatically positions their built-in sensors for analysis by the photo-optical engine.

The RadWatch-RadLight solution provides a legal dose of record for radiation dose reconstruction, risk mitigation and legal defense.

| Network of Activities                                      |                                                                     |
|------------------------------------------------------------|---------------------------------------------------------------------|
| Organization                                               | Application                                                         |
| U.S. Army - Tactical (NVLAP Accredited, LAB CODE 100518-0) | Emergency Response - Field deployment for tactical field use        |
| National Guard                                             | Emergency Response - Assigned to all CSTs                           |
| FEMA                                                       | Emergency Response - Assigned to all 28 regional response locations |
| PA & IL Emergency Management Program                       | Emergency Response - 45,000 OSL dosimeters deployed                 |
| Nuclear Power Plants                                       | OSL used in 52% of all facilities                                   |



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The RadWatch-RadLight Program is powered by Landauer's proprietary technology, optically stimulated luminescence (OSL), which offers many advantages to those using this solution in emergency response applications.

| OSL Feature                                                         | OSL Benefits                                                                      | OSL Advantage                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Excellent Emergency response technology                             | Excellent backup to electronic dosimeters                                         | <ul style="list-style-type: none"><li>• Immediate onsite dose assessment to validate electronic dosimeter information</li><li>• Inexpensive solution for high volume monitoring with accredited dose of record analysis</li><li>• Small dosimeters with portable in-field analysis</li></ul> |
| Non-destructive Readout                                             | Re-read dosimeters numerous times<br>Enables onsite analysis with RadLight reader | <ul style="list-style-type: none"><li>• Immediate radiation assessment without losing integrity from final accredited dose of record analysis</li><li>• Dose data validation</li></ul>                                                                                                       |
| Equipment Redundancy                                                | Emergency backup throughout the world                                             | <ul style="list-style-type: none"><li>• No downtime</li><li>• Reliability</li><li>• 3rd party independent analysis</li></ul>                                                                                                                                                                 |
| NVLAP Accredited (NVLAP LAB CODE 100518-0) for Legal Dose of Record |                                                                                   |                                                                                                                                                                                                                                                                                              |

Learn More

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