



## GEDDS Case Study:

# A Multi State Energy Company, Eastern United States

The utility operated four nuclear stations and needed a unified way to collect real time radiation and airborne contamination data across a large mix of monitoring hardware.

### 01 THE CHALLENGE

Their in house access control system couldn't integrate with monitoring tools, which meant personnel logins and logouts had to be managed separately. Outages created massive data volumes from more than three hundred area monitors and four hundred dosimeter users, leaving the team unable to filter and store only the readings that mattered. The result was slow insight, inefficient processes, and an inability to consolidate exposure information.

### 02 THE SOLUTION

GEDDS was implemented as a core operational data platform, designed to unify device telemetry, personnel activity, and compliance records under one system. The deployment focused on automation, scalability, and reliability to support continuous, high-volume operations.

- Deployed to interface with every device manufacturer in use across the full operational fleet, eliminating siloed data sources.
- Directly integrated with the customer's access control system to automate personnel activity tracking without manual intervention.
- Built on a Java-based architecture capable of handling high-volume data ingestion with stability and speed.
- Applied advanced filtering logic to retain only mission-critical data while minimizing storage noise.
- Centralized live readings, real-time alerts, and complete historical records into a single, trusted system of record.

### 03 THE BENEFIT

The radiation protection team gained a faster, easier, and more reliable way to monitor worker exposure. Automated data flow reduced manual effort and improved situational awareness across the plants.

The system supported ALARA objectives and lowered overall exposure levels, saving tens of thousands of dollars annually while giving staff the insight they needed to respond quickly and with confidence.

Working with S&W Technologies means you're not just buying software, you're gaining a dedicated team of experts who design, deploy, and support your solution from day one.

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