



Thalia, EfW

DCSMS Confined Space Monitoring and Rescue at Allerton EfW Facility

LRES-UK was entrusted with the integration of the DCSMS Digital Confined Space Monitoring System and Rescue Services at the Allerton Energy-from-Waste Facility. As a trusted partner with extensive expertise in safety and maintenance operations, LRES-UK was selected for this critical project to ensure the facility’s annual maintenance shutdown would be executed safely and efficiently.

The Allerton EfW facility plays a vital role in converting residual waste into renewable energy and steam, making the maintenance of high operational standards essential. LRES-UK’s combination of cutting-edge safety technology and proven expertise in confined space management made us the ideal partner for the job. With the successful implementation of the DCSMS, LRES-UK enhanced safety protocols, improved real-time monitoring capabilities, and streamlined maintenance coordination throughout the shutdown period.

This collaboration highlights LRES-UK's commitment to operational excellence and demonstrates our ability to manage complex projects with precision and safety at the forefront.

“I wholeheartedly recommend LRES-UK for their outstanding work in ensuring safe and efficient maintenance. Their innovative approach is underpinned by a genuine dedication to enhancing operational safety.”

Mark Taylor, Maintenance Engineer

PROJECT

COUNTRY/REGION

North Yorkshire

INDUSTRY

Energy

DURATION:

12/06/2023 - 26/06/2023

TOTAL CONTRACT VALUE:

£227,211.66

“The team maintained constant communication across radios and intercoms, and the response from the LRES-UK team was incredibly fast and efficient.”

Mark Taylor, Maintenance Engineer

Scope of Work

DCSMS System Integration:

- Installation of DCSMS digital confined space monitoring systems across high-risk maintenance areas such as combustion boilers and ash handling systems.
- Calibration of gas detection units, digital access control, intercom systems, and cameras to ensure comprehensive real-time monitoring of confined spaces.
- Integration of DCSMS technology with the site’s operational workflow to ensure coordinated efforts between contractors and operators.

Rescue Services:

- Deployment of trained rescue personnel and equipment on standby for emergency response during confined space tasks.
- Development and implementation of safety protocols tailored to the specific challenges of high-risk maintenance tasks at Allerton EfW.
- Continuous coordination with the client’s site team to ensure compliance with safety regulations and swift response times.

Unique Features

LRES-UK implemented the DCSMS Digital Confined Space Monitoring System seamlessly, ensuring smooth integration into Allerton EfW Facility operations. This immediate implementation enhanced safety, efficiency, and communication throughout the maintenance shutdown.

- **Real-Time Confined Space Monitoring:** Integration of DCSMS digital systems allows continuous, remote monitoring of confined spaces, providing immediate alerts and live video feeds.
- **Enhanced Safety Oversight:** A combination of digital access control, gas detection, cameras, and alarm systems ensures all confined space operations are closely monitored and instantly accessible to the operations team.
- **Comprehensive Rescue Services:** Dedicated rescue personnel are on-site for emergency situations, with rapid deployment and expert response protocols, ensuring the safety of contractors in high-risk areas.
- **Rapid Response and Monitoring Efficiency:** The system enables immediate assessment of confined spaces without the need for physical inspections, reducing response times from hours to minutes.

- **Work Permit Management:** The DCSMS also provides real-time work permit issuance, streamlining safety procedures and ensuring all personnel operate within prescribed safety guidelines.

Added Value Delivered by LRES-UK at Allerton EfW

Expertise in Confined Space Monitoring: LRES-UK brought unparalleled experience in confined space safety, having successfully managed over 60 maintenance shutdowns annually. This ensured both high standards and quick resolution of any issues during the project.

Fast Implementation: The DCSMS was installed and fully operational within the allotted time frame, aligning seamlessly with the site’s shutdown schedule.

Improved Safety Culture: By automating and digitally monitoring high-risk operations, LRES-UK contributed to an enhanced safety culture at Allerton EfW, ensuring the safety of contractors and operations team members alike.

Round-the-Clock Support: LRES-UK provided technical support throughout the shutdown, ensuring the DCSMS operated smoothly and any adjustments were made promptly.

Client Collaboration: LRES-UK’s proactive approach ensured close collaboration with Thalia Waste Management at every stage, meeting both immediate and long-term safety goals for Allerton EfW.



Sean Mason
(Confined Space Rescue Manager)