



Delivering a seamless fire alarm upgrade within Rolls-Royce's Production Test Facility

£196k project

Delivered on time and within scope

3 systems integrated

Unified into one seamless fire alarm network

Zero incidents

No health and safety or FOD issues recorded

Overview of the challenge

Rolls-Royce required a full fire alarm upgrade across its Production Test Facility (PTF), a live manufacturing environment where aircraft engines are assembled.

The existing setup consisted of three separate fire alarm systems that were not integrated, including an obsolete system that no longer met operational requirements. The project required a single, compliant system capable of providing full coverage across all areas while maintaining uninterrupted manufacturing operations.

Key challenges included working within a highly sensitive production environment, coordinating works around shift patterns and installing detection systems at high level without impacting critical processes. Strict Foreign Object Debris (FOD) controls and health and safety requirements added further complexity to delivery.

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The approach, plan and strategy were clearly defined from the start, which enabled us as the customer to plan effectively to ensure engine deliveries were not impacted. Marlowe Fire & Security supported on-site visits and desktop planning exercises involving key stakeholders, which enabled effective communication during the execution phase.”

Jay Smith, Programme Manager
Rolls-Royce

Our Approach

Mitie Fire & Security designed and delivered a fully integrated fire alarm solution, upgrading and replacing existing systems across three building areas and linking them into a single networked system.

We provided detailed design information at tender stage, including AutoCAD drawings, technical submittals and a comprehensive enabling works package. This ensured full visibility of scope, reduced risk of variation and supported accurate planning from the outset.

Installation was carefully planned to align with operational requirements, with high-level works scheduled around production shifts and weekend access. Close collaboration with Rolls-Royce, Mitie Projects and on-site teams ensured safe delivery, while flexible working practices minimised disruption throughout.

The Results

The project was successfully delivered on time, with all systems fully operational and integrated across the facility.

The new fire alarm system provides a reliable, compliant solution that supports ongoing manufacturing operations without interruption. No health and safety incidents or FOD issues were recorded throughout the project, reflecting a strong focus on safe delivery.

The system has remained fault-free since installation, and the successful delivery has strengthened the partnership, leading to additional works across the Rolls-Royce estate.

Why Choose Mitie

Mitie Fire & Security combines national coverage with a structured, data-driven approach to compliance. We deliver consistent performance and full visibility across complex estates, supporting safe, efficient operations.

Services

We deliver comprehensive fire and security services including:

- Planned and reactive maintenance
- Fire alarms and life safety systems
- CCTV, intruder alarms and access control
- Compliance reporting and digital integration

Get In Touch

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