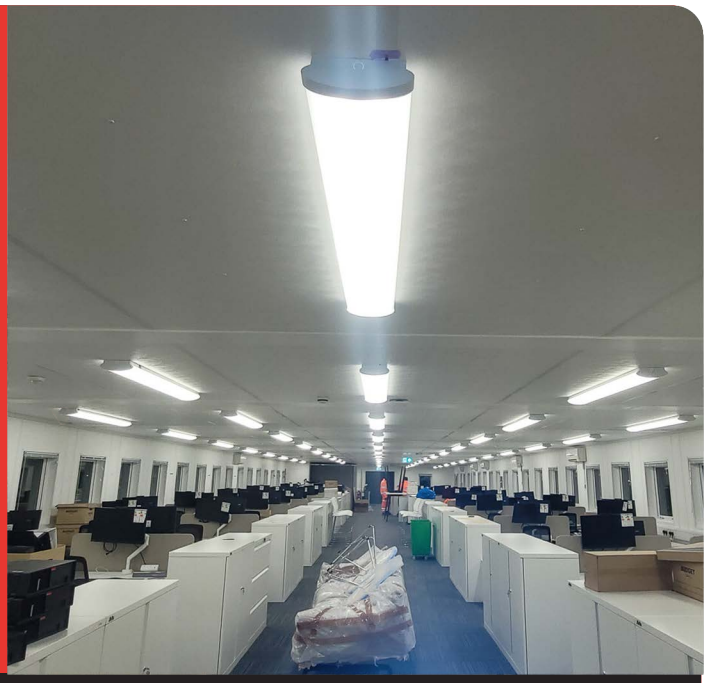
ProGen | TAZIKER
Infrastructure Access Engineering Industrial

Tottenham Maintenance Depot Unit Upgrade

ProGen completed a £250,000 MEPH upgrade at Tottenham Maintenance Depot for Taziker in two months, refurbishing meeting rooms, restrooms, and kitchenette with new hot water, ventilation, air conditioning, lighting, and fire alarms. Minimising disruptions in a live environment, ProGen delivered enhanced functionality and comfort on time and within budget.



Client	Project Value	Project Type	Location
Taziker	£250,000	Maintenance Depot	Tottenham, London

Background

Context: The Tottenham Maintenance Depot is a critical facility for Network Rail that requires efficient and functional environments for staff and operations. The project aimed to refurbish multiple areas within the depot unit to enhance comfort and operational efficiency.

Objectives: To design, install, and commission new Mechanical, Electrical, Plumbing, and Heating (MEPH) systems that meet modern standards while ensuring minimal disruption to ongoing operations.

Problem Statement

The existing maintenance depot unit required significant refurbishments to improve functionality and comply with current standards, specifically in key areas such as meeting rooms, restrooms, and the kitchenette.

Project Scope

Key Deliverables:

- Full refurbishment of multiple areas within the depot including Meeting Room 1, Meeting Room 2, Store Room, Reception, Male WC, Female WC, Kitchenette/Breakout Area, Calibration Room, and Circulation Space.
- Implementation of new MEPH systems designed to meet Network Rail's criteria.

Inclusions/Exclusions:

- **Included:** All design, installation, and commissioning works related to MEPH systems and area refurbishments.
- **Excluded:** Non-MEPH related construction activities not specified in the project scope.

Methodology

Planning and Coordination: ProGen collaborated with the principal contractor and managed workflow through an organised pre-construction planning process that included producing a Form G for design proposals.

Design Package: Conducted a tag and trace survey followed by design submissions to Network Rail for approval to ensure compliance with operational standards.

Execution

Mechanical Package:

- Installation of a new hot water system to provide consistent service throughout the depot.
- Modification of the existing ventilation system with the installation of new systems to accommodate the updated fit-out.
- Installation of new air conditioning units to enhance the comfort levels for personnel.
- Rigorous testing and commissioning post-installation that included pressure testing, chlorination, and fire damper commissioning to ensure system reliability and safety.

Electrical Package:

- Installation of a new building electrical supply to support the upgraded systems.
- Implementation of new containment systems for structured and safe management of electrical wiring.
- Deployment of new energy-efficient lighting solutions, including custom-designed fixtures to meet specific spatial needs.
- Installation of new socket outlets and cabling to support enhanced electrical requirements.
- Modifications to the existing fire alarm system to ensure it aligned with the updated layouts.
- Comprehensive testing and commissioning of all electrical systems to ensure operational readiness and compliance with safety regulations.

Results

The project was completed on-time and within budget, with a total value of £250,000. Key results included:

- Comprehensive refurbishment of the maintenance depot unit, making it more functional and comfortable for staff.
- Installation of modern MEPH systems that improved energy efficiency and met all safety and comfort requirements.
- Positive feedback from Taziker and Network Rail regarding the quality of the work and the professionalism demonstrated throughout the project.

Lessons Learned

- Effective communication with stakeholders and a solid pre-construction plan were essential for minimising disruption and ensuring that project phases were executed smoothly.
- Adherence to rigorous testing and quality assurance protocols was crucial in delivering systems that met the stringent standards required by Network Rail.

Conclusion

ProGen's successful execution of the MEPH systems upgrade at the Tottenham Maintenance Depot demonstrates their capability to deliver high-quality engineering services in a challenging environment. This project not only enhanced the facility's functionality but also contributed positively to Network Rail's operational efficiency.