

Case Study: Holycross ATFS & Reading ATFS Substations, Bramley UK

Client: SPL Powerlines UK

Project Partner: WJ Project Services

Location: Holycross ATFS, Bramley

Scope: Electrical design, FAT/SAT, protection and control integration, cross-boundary commissioning, and entry into service



Project Overview

WJ Project Services was commissioned by SPL Powerlines UK to support the electrical design, testing, and commissioning of the Holycross ATFS and Reading ATFS substations. The project included Factory and Site Acceptance Testing, protection scheme verification, cross-boundary integration, and entry into service planning.

Approach

The team developed commissioning methodologies covering LV and HV systems, including protection studies and cable sizing verification. Primary and secondary testing was undertaken to validate intertripping, interlocking, signalling, and system voltage section proving. All procedures and results were fully documented for client approval.

Commissioning & Training

HV and LV switchgear systems were tested and commissioned in line with approved protection settings. Cross-boundary signalling between Network Rail and National Grid assets was verified, including 12kA short circuit testing and staged energisation procedures to confirm scheme compliance.

Equipment

Integrated HV and LV switchgear incorporating IEC 61850 architecture was commissioned, providing compliant protection, control, and SCADA functionality.

Outcome

Integrated HV and LV switchgear incorporating IEC 61850 architecture was commissioned, providing compliant protection, control, and SCADA functionality.

