

# East Coast Main Line SCADA NMS RTU Configuration Upgrades



**Case Study:** NMS RTU Configuration Upgrades Across Nine Substations

**Client:** Siemens / Network Rail / Thameslink

**Project Partner:** WJ Project Services

**Location:** East Coast Mainline – London to Newark (9 Locations)

**Scope:** RTU configuration upgrades, outage management, switching schedules, substation bypass, and NMS integration testing



## Project Overview

WJ Project Services was commissioned to complete the full implementation of the Network Management System (NMS) across nine East Coast Mainline substations. The works focused on upgrading Remote Terminal Unit (RTU) configurations to enable full monitoring and control functionality from the York Electrical Control Room.

## Approach

Outages were coordinated for each site, with detailed switching schedules developed to maintain alternate feeding arrangements. Substations were switched out or bypassed as required, with all plant operated and verified before installation of updated RTU configuration files within the Fastflex processing units.

## Commissioning & Training

Following installation, local testing was completed to verify system functionality before reinstating substations. End-to-end testing was conducted from the York Control Room to confirm full SCADA and NMS integration, ensuring accurate monitoring and operational control of HV assets.

## Equipment

Fastflex RTU processing units and NMS interface systems were upgraded, enhancing real-time monitoring capability and improving operational visibility of HV switchgear across the route.

## Outcome

The project successfully delivered fully integrated RTU upgrades, enabling reliable remote monitoring and control of substations and supporting efficient long-term network management.

