

CLIENT**Northern PowerGrid (NPg)****SERVICES PROVIDED**

- Test/Commission of RTU and Actuators.

PROJECT**Automation****LOCATION****Spring Bank Road 644, Farsley,
Leeds****OVERVIEW**

IUS has been involved in supporting NPg automation for many years in a bid to help sustain and improve the infrastructure and network control remote switching capability which lessens power outages for customers should a fault or trip occur. As such IUS provides installation, commissioning, and technical support to NPg, which improves network restoration time and remote switching capability for 11kV ground Mounted switchgear.

DESCRIPTION

The work involves carrying out a detailed survey of a substation to ascertain if the site is suitable for automation. The survey considers the switchgear installed, network design required by NPg and signal strength tests for connectivity to a secure communication network. The survey would identify the automation equipment to be installed by approved remote terminal unit (RTU) installers, and later actuators to be commissioned by an IUS senior authorised person (SAP).

Site installation of the RTU was carried out following a successful site survey to identify where the unit would be wall-mounted and umbilical cables run between RTU and the switchgear already pre-installed. The design incorporates fault path indicators to be automated and wired into the RTU that indicate back to control if a fault occurs.

Commissioning of the site was carried out by an authorised SAP. Final connections were made onsite and local operational tests were carried out. Once satisfied that the installation was operationally ready the SAP would contact the control desk engineer and carry out any network reconfigurations required under a system outage to allow remote operation. Remote testing is accomplished by the control desk engineer and the Automation equipment made operational on the NPg network.