

CASE STUDY

CLIENT

Northumbrian Water Group

PROJECT

Tocketts Bridge SPS

Part of Saltburn Bathing Waters scheme

SCOPE OF WORK

- ▶ Upgrade the SPS electricity supply equipment to 630A to allow the 2-no. pumps to be run as Duty/Assist
- ▶ MCC modifications for control at Guisborough Works

DATE

October 2015



TOCKETTS BRIDGE PUMPING STATION

As part of the Saltburn Bathing Waters scheme, it was required that the pumps at Tocketts Bridge work as duty / assist rather than the existing duty / standby arrangement, to handle the additional flows from Guisborough Works. In order to do this, the existing Motor Control Centre (MCC) was upgraded from 400A to 630A.

This was achieved by means of replacing the MCC incoming device and bus-bars, removing the existing 400A generator changeover panel and replacing with a new 630A unit. Supply cabling, including containment to the MCC, was also upgraded. There were changes required to the software at Tocketts Bridge SPS, and modifications to the Low Power Radio link between Tocketts Bridge SPS and Guisborough Works.

The software was configured to control the operation of Guisborough Works outlet penstock and the new Storage Tank outlet penstock under certain conditions occurring at Tocketts Bridge SPS.

On completion of the required works, the electrical installation was fully tested to BS7671, and commissioned to verify correct operation of the equipment at Tocketts Bridge, and the penstocks at Guisborough Works. The required paperwork and manuals were produced and handed over to the client on acceptance.