

J6A Metering System Replacement

Client:

Spirit Energy

Location:

North Sea, The Netherlands

Equipment:

Metering Computer System

Project background

The J6A and J6A-CT platforms located in the Dutch sector of the North Sea receive natural gas and condensate from various fields. Acting as a hub to surrounding satellite platforms they export the wet gas via the WGT (Wet Gas Transport System) pipeline to Den Helder in the Netherlands.

Initially a support contract for an outdated non-Proserv system, in 2021 Spirit Energy opted for a full system replacement. This project replaced the existing Wonderware InTouch HMI with ABB eXLerate. The Krohne VFC was replaced with ABB Flow-X allowing removal of the Allen Bradley PLC's transforming a 3-tier architecture to a 2-tier architecture enhancing stability, simplicity and reducing single points of failure.

Chosen for our reputation

With over 200 metering control systems supplied so far to the industry, Proserv was chosen because of our system's proven quality and reliability. We had previously completed successful projects for this client and so had a reputation for being flexible and easy to work with.

Control panel scope

- Refit of 3-bay panel in J6A
- Refit of 1-bay panel in J6A-CT
- Supply of 2 wall-mounted single panels
- 32 x ABB Flow-X flow computers
- 3 x ABB eXLerate SCADA (Duty / Standby MSC and single Client)

Bespoke functionality

- Transmitter verification tool to part automate and document analogue / HART calibrations
- Windows Sever 2019 on a Domain to allow remote access concurrently with onsite operator use on the same machine
- MeOH injection calculator to indicate if methanol injection is required to prevent ice build up
- Venturi calibration at MSC level involving simultaneous batches on test and control meters to establish the gas / condensate / water ratios used in wet gas calculations
- Calculation of site Mass Balance, the ratio between the import and export metering throughput
- External emailing of PDF reports



J6A Oil Platform