

Case Study

## Gas Compressor Control Upgrade



**CLIENT:** Confidential

**PROJECT:** Offshore - North Sea

### THE PROJECT

Core were asked to supply and install updated Honeywell CCC® Performance and Antisurge controllers to replace an existing system that was obsolete and in poor repair.

The system monitors and controls the speed and antisurge facility of a pair of gas compressors powered by 8MW gas turbines on an offshore gas platform.

### CORE'S SOLUTION

Migration from Series 3 to Series 3++ was selected. Core purchased the controllers and configured and tested them in our Aberdeen base, then staged a witnessed FAT (*Factory Acceptance Test*) to a procedure prepared by ourselves.

An updated design was prepared which utilised existing cabinet mountings and cabling while adding connections to configure and monitor the compressor control parameters.

Also supplied was a laptop with Honeywell TrainTools® configuration software, and this was used to configure the controllers and maintain a configuration library for change control and breakdown recovery purposes.

Following successful testing, the controllers were taken offshore and Core performed Site Acceptance Testing, following a procedure prepared and issued by Core Engineers.

Following a successful restart, the compressors were surge trialed and load balanced.

On subsequent visits to the asset our engineers performed further maintenance and optimisation of the system and remain on call to support this asset into the future.

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