

Project: Lomond & Everest

Contractor: AMEC

End User: BG Group

Product: Export Sampling System

Location: UK, Offshore

Year: 2014

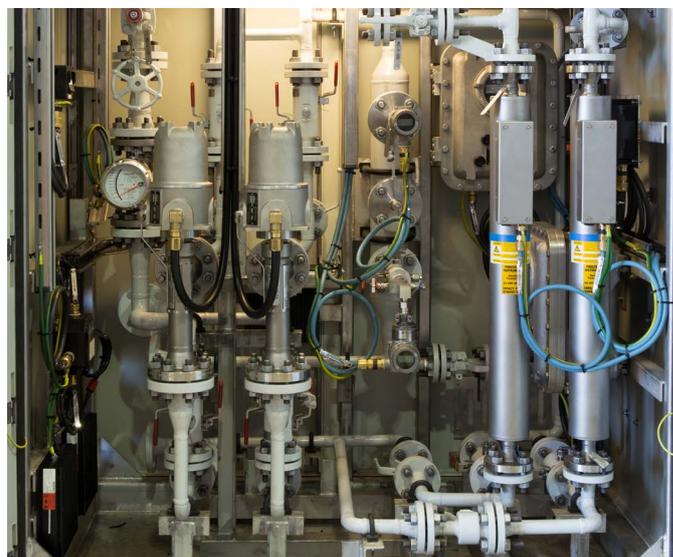
### Application

Condensate Export Sample and Mixing Systems for BG North Everest and Lomond Platforms located in the central North Sea area. The packages were designed in accordance with DECC and Forties Pipeline system requirements. They were to replace the existing systems which were approaching obsolescence and were also functionally lacking in certain areas.

### Description

The client BG and the contractor, Amec Foster Wheeler, wanted to standardise on another OEM's samplers, but that OEM refused to sell them to the project so instead they have now standardised on the Maurer® MCS31 Cell Samplers. Two identical systems were provided and each system comprised of the following main items:

- Jet mix nozzle manufactured in duplex.
- Sample probe manufactured in duplex.
- Mixing skid which comprised of duty and standby duplex centrifugal pumps with magnetic drive.
- Analyser enclosure which comprised of duty and standby water in oil sensors and densitometers.
- Sampling enclosure which comprised of two Pneumatic Maurer® MCS31 Cell Samplers, and four off Maurer® Sample Cylinders.



### Challenges

There were two key challenges on the project. The new systems were to be installed on the Lomond and Everest platforms in exactly the same position as the existing systems. Whilst the existing systems could be quite easily destroyed for removal the key issue here was "How do we get the new system in situ?"

The answer was to break the systems down into smaller parts that could be moved into position once on the platforms and then re-connected once in place.

Delivery was also a key challenge due to the fact that the sampling systems completion had to coincide with the shut-down period for the platforms. We are pleased to confirm that OGS met the delivery schedule.