

Brighouse Bay Interconnection



Description:

The Brighouse Bay Interconnection was built close to the existing compressor station in the south-east of Scotland, UK, and integrated into the existing facilities.

Engineering, procurement, construction and pre-commissioning covered the following scope of work:

- Construction of a platform, close to the existing compressor station, on which should be installed a new compressor station in 2008;
- The platform, surface area ~7,000 m², was to be constructed by excavating about 27,000 m³ of rock and earth to be transported behind the site. These civil works also included a drainage system for feeding an adjacent wet area called "Willow Carr".
- Supply and installation of one pig trap and associated valves to be connected by welding respectively to a 30" sub-sea pipeline going to Ireland. The pig trap and associated valves were installed on foundations and fitted with local and remote instrumentation to be integrated into the existing control room of the compressor station under operation. Hydrostatic testing pressure of that system 225 barg.
- The connection from the 30" sub-sea pipeline to the gas outlet of the existing station by means of a 30"/20" pipe (200 m long), the necessary hot tapping had being previously prepared by other. The necessary valves were included in the scope.

- Construction of a new vent system with a 20 m high stack collecting the vents of the existing and future compressor stations from an existing feeder. The double pipe work had a diameter of 12" and an approximate length of 300 m was to be connected to the existing vent collector means of hot tapping without interrupting the operations of the existing facility. These activities included the necessary civil works, stack foundation, trenches and wrapping and painting of the pipes and stack.
- The scope of work also included: Double fences with an integrated intruder detection system, access road to the pig trap, temporary site access road for heavy trucks, approx. length: 500 m.

Location: South-East of Scotland, UK, Brighthouse Bay Compressor Station, Borgue Kirkudbright, DG6 4TR Scotland, UK

Special Aspects: Construction activities within the station area were performed under operating conditions,
Difficult soil conditions, i.e., hard rock,
Consideration of special environmental protection requirements,
Project as part of the overall Gas 2025-Project formed the interface between the onshore and offshore section

Project Duration: 2001 - 2002

Contractor: PPS, Pipeline- und Anlagenbau
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Value: 10,000,000- €

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