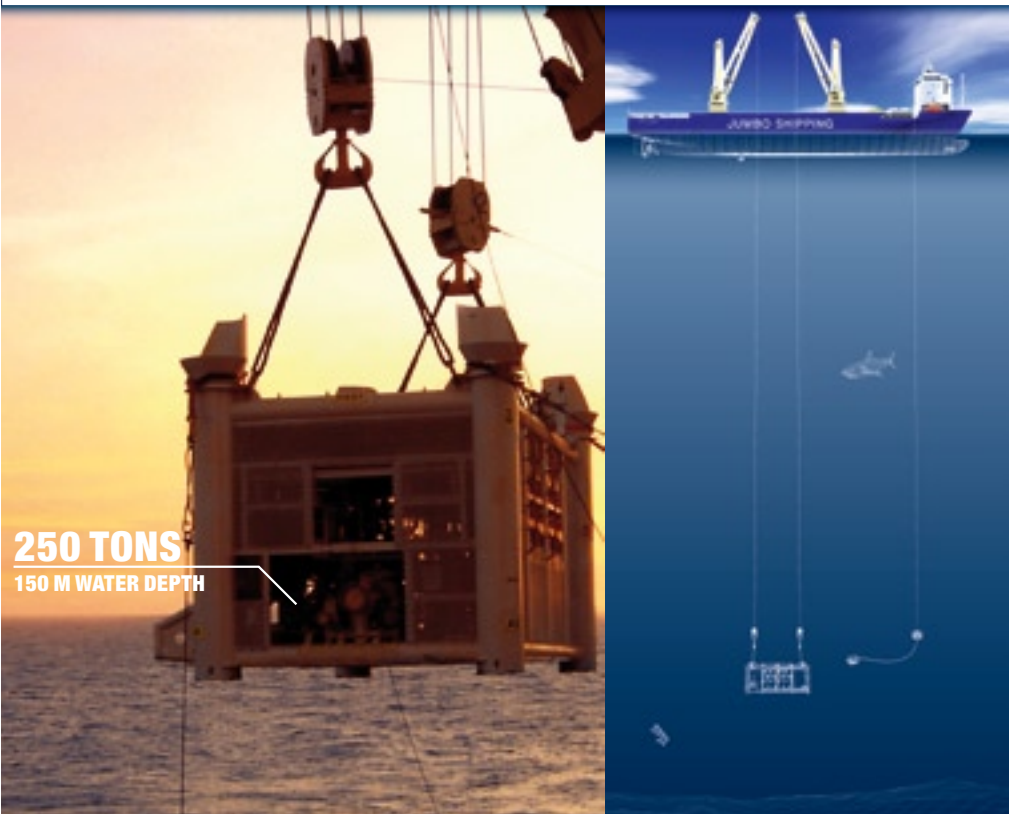


PROJECT FILE

JUMBO OFFSHORE PROJECT BRITANNIA SATELLITES



250 TONS
150 M WATER DEPTH



■ GENERAL

The Britannia Satellites Phase 1 Development Project (BritSats) comprised the development of the Callanish and Brodgar hydrocarbon reservoir fields. Subsea wells and pipelines will be tied back to a new bridge linked platform (BLP) located adjacent to the existing Britannia Platform. The Britannia Field is located in the UK North Sea Block 16/26, in a water depth of approximately 136 meters.

■ THE CARGO

The work scope awarded to Jumbo Offshore by Acergy UK Ltd included the transport and subsea installation of the Callanish and Brodgar manifolds, and the stabbing of eight foundation piles. The Polar Bjorn, under charter to Acergy UK Ltd supplied the ROV services.

Both manifolds measured 15 meters long and 7 meters wide. The Callanish manifold weighed 250 tons, and the Brodgar 208 tons. The piles were up to 35 meters long and weighed up to 20 tons each.

■ THE PREPARATIONS

With two 900 t Huisman mast cranes and fitted with DP2, Jumbo Javelin is the ideal vessel for the work scope. To lower the structures to the required water depths, the Jumbo Javelin's cranes were re-reeved to a 4 fall configuration, and the standard 900 t crane blocks were replaced by 450 tons subsea blocks.

For the installation, accuracy was of utmost importance. Tight installation requirements, (position +/- 1 meter, heading +/- 1 degree) in combination with a soft seabed, meant that installation had to be accurate on the first attempt. Picking up and re-landing the manifold could have resulted in excessive manifold inclinations. In order to achieve

the required installation tolerances additional tugger lines and constant tension (CT) tugger winches were mobilised to the vessel. As the Jumbo Javelin normally only accommodates 27 crewmembers, and the BritSats project required a total of 45 people on board, Temporary Living Quarters (TLQs) for 20 additional people were also installed on deck.

■ THE JOB

The Jumbo Javelin arrived at the Babcock yard in Rosyth (UK) to commence loading operations. As a result of a thorough project preparation, the Jumbo Javelin left the Babcock Quay tidal basin within 24 hours, with all cargo on board and firmly sea-fastened.

The Jumbo Javelin continued to the field site and met up with the Polar Bjorn. The Callanish manifold was landed with precision on the seabed. Immediately after landing and disconnecting the sea rigging, operations continued with the discharging, up-ending and stabbing of the four manifold foundation piles.

That same day, the Jumbo Javelin moved to the site of the Brodgar manifold installation, and the manifold was landed on the seabed with pinpoint accuracy. Early the next morning, the Brodgar's four piles were lifted, up-ended and stabbed into the seabed.

Through innovative engineering, careful planning and precise execution, Jumbo completed the entire BritSats installation within 36 hours, safely and accurately and without a single reported incident. Success in the BritSats project was just one more example of Jumbo's expertise in specialized heavy lift transport and installation.