

A Group Approach to Major Project Delivery





he following case study outlines a project requiring multiple stages of engineering solutions for the delivery of oil and gas deep-sea hardware.

The purpose of the project was to support a major oil and gas pipeline solutions firm in wider oil and gas exploration activities.

Renown Group was able to deliver the project as a result of possessing the required engineering capabilities and skills across its three sites.

This enabled the customer to place a product requiring several processes with one supplier, without any further need to subcontract.









### **Project Summary:**

Location: UK, North Sea

Customer: Major oil and gas pipeline operator

Project deliverable: Deep sea hardware

Customer requirements: Machining, weld overlay cladding, butt welding, painting and coating, quality inspection, project management

# **DELIVERY OF THE PROJECT:** THE GROUP APPROACH



# Stage 1.

#### Renown Oil & Gas Ltd, Washington







Material preparation | Pre-machining | Weld overlay cladding | Butt welding | NDT inspection

- 1. Pre-Machining The process started as parts for the product were machined to the required dimensions
- 2. Weld overlay cladding was applied for surface protection, allowing the substrate material to provide strength requirements to meet the specified codes and standards of the customer
- 3. Butt welding to join the machined pieces with a high-strength weld
- 4. In-house NDT inspection was undertaken to ensure the welding had met the specified welding parameters



# Stage 2.

PJ Engineering Products Ltd, **South Shields** 



Horizontal boring

5. Horizontal Boring As a result of the hardware having being hard-faced from the weld overlay, horizontal turn-

s the hardware had a variety of components requiring seven different stages of engineering, Renown Group project managed the schedule of work across its three sites.

This ensured a seamless transition from one site to the next, and capacity from one engineering process to the next.

### Stage 3.

#### Renown Engineering Ltd, Cramlington







Final machining | NORSOK M501 painting, coating and approval

- 6. Final machining the products were finished with final machining to ensure all dimensions matched and the realign any disturbances during previous stages
- 7. Painting and coating was applied to NORSKOK M501 standards as per the customer's specification



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