

# POWERSLEEVE EXTERNAL CLADDING

## Workscope

Stork was contracted by Wood Group PSN to reinforce the structural integrity of a two level module after severe corrosion was identified on Shell U.K.'s Brent Alpha installation. All four sides of the module showed severe corrosion and multiple through wall anomalies.

## Solution

Stork applied its innovative pipe repair system; PowerSleeve.

PowerSleeve's engineered composite reinforcement was selected because of its 100% solids epoxy impermeable barrier. This combined with the strength of its custom E-glass and Kevlar® fabric made it the best choice to encapsulate and reinforce structures on this project.

The surface of the module was hand prepared by Stork's multi-skilled rope access technicians and all voids filled with epoxy putty to smooth the surface area. All repair calculations are conducted in-house, providing the client with a fully customised rapid delivery.

## Results & Benefits

Stork's technicians were able to completely cover affected area; restoring original structural integrity.

Additional worksopes have been requested due to proven results on this workscope.

*"Stork's PowerSleeve delivered a rapid solution which has produced significant time and cost savings. The original structural integrity was completely restored and affected area covered. We found the attitude of the Stork technicians to be of an excellent standard. They displayed a safe and conscientious attitude towards the tasks they were asked to carry out and completed the scope as per the planned timeline."*

**George Rennie**  
ISC Fabric Maintenance Lead  
Wood Group PSN



- **When:**  
February 2013
- **Location:**  
Shell U.K., Brent Alpha
- **Insulation conditions:**  
5 C ambient temperatures
- **Installation type/products:**  
Field wetted Powersleeve composite system
- **Materials:**  
5/20UW Epoxy Putty Stick, Power Sleeve® W-11® hybrid fabric with Standard Resin, Bio-Dur 563® Epoxy basecoat/ primer and final topcoat
- **Safety:**  
Project delivered safely with no lost time incidents
- **Workscope completion:**  
The workscope was completed on time and within budget

