

# FPSO risers pulled in, hooked up and commissioned on new North Sea asset

**CLIENT** BW Offshore  
**ASSET** BW Catcher Floating Production Storage and Offloading (FPSO) unit  
**LOCATION** North Sea (UK)

Hydrocarbons risers and umbilicals pulled in, turret connected and STP area constructed utilising a fully integrated solution to bring a new asset online

## BENEFITS

Cost effective integrated solution from one contractor to provide consistency

Market leading expertise from multi-disciplined team to ensure quality and safety

Fast response to fit with tight timescales

Specialist expertise and experience with round the clock support across regions



## CHALLENGE

BW Offshore engaged Sparrows to assist with the Hook Up and Commissioning (HUC) of the Catcher FPSO in the North Sea including:

- Pull in subsea risers and umbilicals
- Install Emergency Shutdown Valves (ESDVs) and seal cans
- Carry out flange management activities
- Skid turret to permanent position
- Reinstate process pipe spools
- Install permanent work platforms and grating
- Operation and maintenance of gantry crane
- Manufacture, pressure test and flushing of small bore pipework and sample panels
- Meet all project targets and provide support to achieve first oil on deadline.

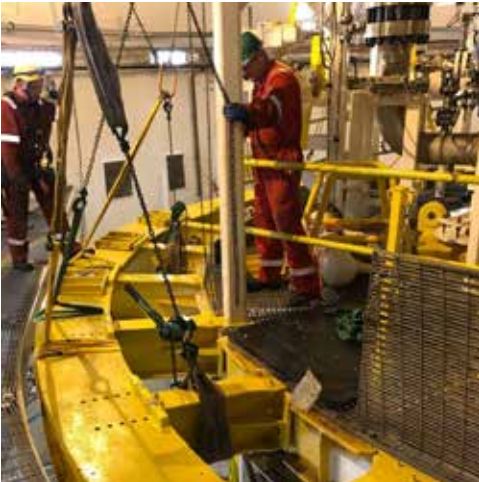
## SOLUTION

- Key personnel travelled to Singapore to survey the worksite and join the BW Offshore team for dry run of HUC activities
- Suite of lift plans generated for all lifts to take place during dry run and HUC
- Tailored flange management procedure generated for the scope
- Provision of equipment including – rigging equipment, tension tools, torque tools, manual handling equipment, pressure / flushing Hydraulic Power Unit (HPU), hydraulic and mechanical hand and air tools, lighting and communications equipment
- Dedicated onshore focal point and rigging leads to provide consistent client contact points throughout the eight-month scope
- Provision of training services to coach BW Offshore staff in use of monorail gantry crane
- Created a Failure mode, effects and criticality analysis (FMECA), Planned Maintenance Routine (PMR) suite and recommended spares list for turret gantry crane to enable correct maintenance and minimise downtime
- A multi-disciplined ad-hoc squad was utilised including – rigging supervisors, rope access trained riggers, rope access trained bolting technicians, level 3 rope access supervisors, gantry crane operators, senior hydraulic technicians and piping / small bore tubing technicians, Lifting Operations and Lifting Equipment Regulations (LOLER) inspectors.

## SUMMARY

- Integrated solutions
  - Crane and lifting services
  - Mechanical handling
  - Hydraulic system management
- Capabilities / services
  - Multi-discipline engineering / design
  - Crane operations
  - Rigging / lifting
  - Maintenance / servicing / refurbishment
  - Rope access
  - Fluid power / hydraulics
  - Site surveys
  - Training / coaching
  - LOLER inspection
- Equipment rental
  - Rigging / lifting equipment
  - Mechanical handling equipment
  - Tension / torque tooling
  - Hand and air tools
  - Hydraulic equipment

1.



2.



3.



1.

Platform installation

2.

Rope access

3.

Turret fully integrated with riser buoy

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