

PROJECT:

EPRS Lifting and Handling Frames

**under-promise
over-deliver**

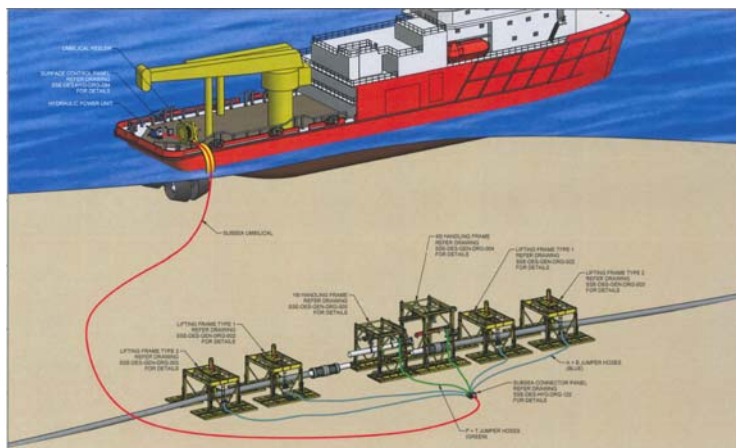


CLIENT:
Qatar Petroleum
LOCATION:
Arabian Gulf
DATE:
2016



Linch-pin developed an innovative, simple, and effective concept for an Emergency Pipeline Repair System (EPRS) for Qatar Petroleum to be used in the Arabian Gulf. The design had tight restrictions on frame weights and sizes, whilst also being required to repair pipeline sizes ranging from 12” through to 60” in diameter.

Four (4) pipeline Lifting Frames were designed for a lift capacity of up to 60 tonnes and two (2) Handling Frames were designed for 40 tonne and 15 tonne lift capacities. The Handling Frames can deploy replacement spools as well as either flanged or coupling connectors of up to 34 tonnes. All frames were certified to DNV 2.7-3 Portable Offshore Units.



The hydraulic systems allowed for positioning and alignment of the frames as well as for raising and lowering the mudmats to minimise dynamic loading while deploying through the splash zone. A weak, lower bound, soil foundation profile was assumed for the mudmats.

As well as providing the design, Linch-pin guided the fabricator with procurement technical and costing advice, fabrication technical support and commissioning expertise. This included onshore FAT as well as offshore wet testing.