



It was observed that the PA platform had a parted conductor casing, exposing the internal casings. NauticAWT was awarded the job to carry out structural integrity analysis; develop a repair methodology to reinstate the damaged section and structural integrity of the conductor.

**NauticAWT
Disciplines:**

Pre-Engineering Survey of damaged conductor casing

Design Engineering & Analysis including External Clamp drawing

Clamp Fabrication & Installation

Grouting of External Clamp



QUICK FACTS:

Client:

Shell India
(formerly BG
Exploration &
Production India Ltd.)

Location:

Panna Mukta Field,
PA3 Platform, India

Project dates:

March – April 2017
11 days total

Materials:

NaX™ Q140

For more information
contact:

tel: +617 3505 4500
or visit our website at
www.nauticawt.com

The Scope

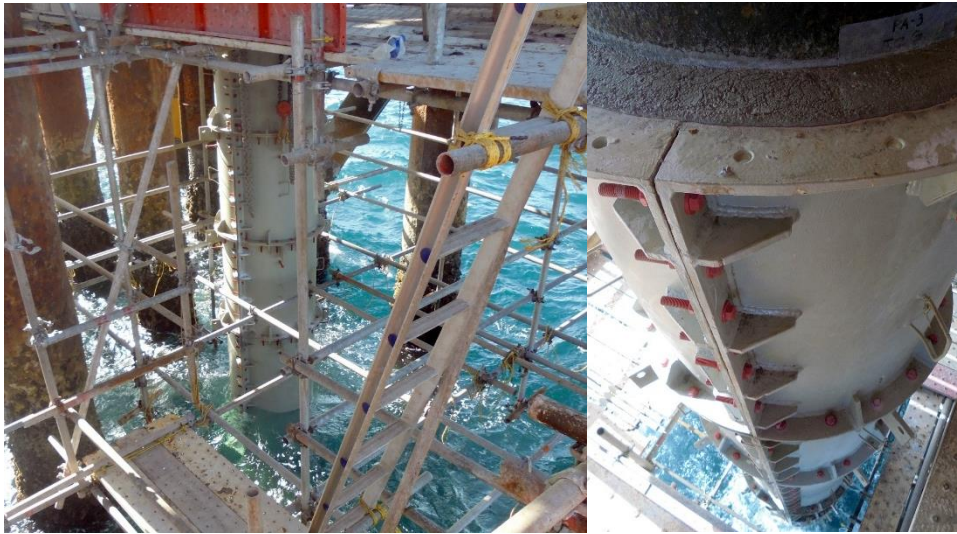
- Pre-Engineering Survey of the damaged conductor casing
- Carry out Engineering Design & Analysis
- Carry out design of External Grouted Clamp
- Fabrication & Installation of External Grouted clamp
- Alignment of the damaged casing & Installation of clamp offshore
- Grouting of the annulus between the clamp & conductor casing
- Post installation survey & final documentation

The Services

- Project Management services including reporting, QA/QC
- Provision of qualified & experienced onshore and offshore personnel
- Provision of equipment i.e. mixers, pumps, downhole camera, HP water jetting etc. for executing the work scope
- Supply of fabricated clamps, bolts & nuts
- Supply of Ultra-high performance cementitious (UHPC) mix NaX™ Q140 along with binder lubricant mix

The Challenges

- High tide posed a major challenge during the installation of the clamp due to lower elevation being at -3m i.e. splash zone area. This meant that the cleaning and installation of the clamp was hampered during high tide but by monitoring tide charts and patterns on a regular basis the team managed to carry out the cleaning and installation related activities during low tide.



NauticAWT comprises 200+ personnel and has the global reach of 12 offices across Australasia, the Middle East and Central America, providing a complementary technical and commercial offering unique to the oil and gas industry.

NauticAWT has established a QEHS Management System that conforms to the following standards: ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007 on 3rd February 2013. All certificates were issued by DNV, Singapore.

Client Benefit

- The whole process was carried out without the use of divers; an approach which resulted in vast time and cost savings for the Client.
- Stage wise inspection of the fabricated clamp in consort with client and third party inspector, ensured the quality of the fabricated clamp.
- Stage wise inspection and preparation of IMIR (Incoming Material Inspection Release Note) ensured the use of correct specification and quality of materials throughout the project.
- Close interaction with the client representative ensured safe and timely completion of the project.

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