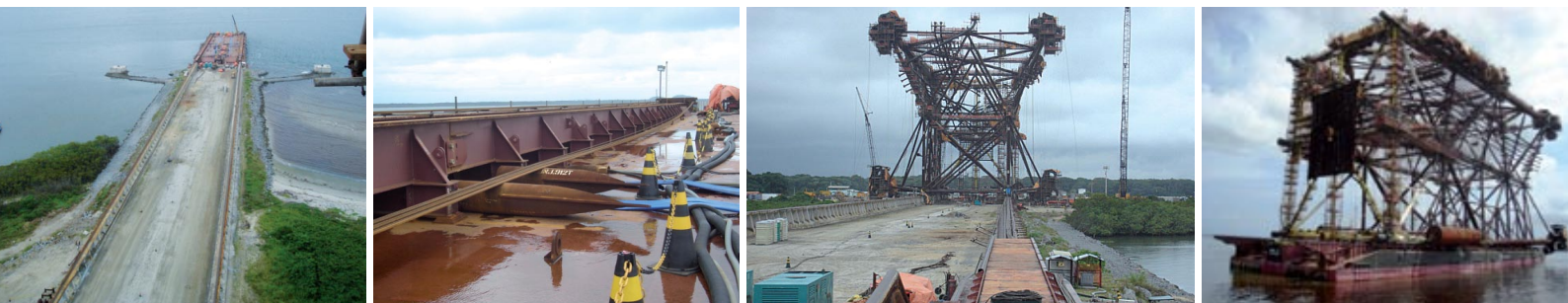


Contract: Loadout of the PRA-I Jacket
Client: Techint E&C
Location: Brazil



Challenge

When Techint E&C wanted to loadout the first jacket constructed in Brazil since the 1980s they turned to Noble Denton to provide a solution thus challenging the global leader in marine & offshore engineering to move the jacket structure a record distance of 456 metres inland, onto the transportation barge.

Expertise provided

The PRA-I is the first jacket built in Brazil since the late eighties for water depths over 100m. The jacket was manufactured by Techint E&C at its yard in Parana State with a total loadout weight of 6,200 tonnes. The 456-metre distance travelled from the fabrication site to the final position on the barge is a world record.

Noble Denton was tasked with carrying out the displacement of the jacket structure from its erection site to the loadout starting point and onward to the final position on the cargo barge. The scope of work consisted of the conceptual design, the engineering of all the necessary systems, the supply of equipment and key personnel and the technical management of the field operations.

This involved the provision and execution of the following:

- Structural verification of the jacket and barge
- Mooring analysis of the barge
- Ballasting analysis
- All the technical procedures, including the loadout manual, risk analysis, safety plan, and marine operations procedures
- Design, installation, testing and operation of the loadout ballasting system
- Sizing of strandjack system and design of dead-man anchors, strandjack supports, and auxiliary pushing jacks system
- Design, installation, testing and operation of the loadout power supply
- Supervision and training of a local team of mariners for all the marine operations
- Technical management of the preparatory works, barge manoeuvres, testing of all systems and loadout operation
- Supply of the loadout equipment, including strandjacks, ballast pumps, generators, control panels and tug boats.

Outcome and benefit

The versatile team of Noble Denton professionals in partnership with Fagioli PSC, who supplied and operated the four strandjacks of 450 tonnes capacity, completed this challenging and complex project with a sense of urgency and unprecedented detail to quality.