



Taper/Taper adhesive-bonded Joint



FPSO BP Plutonio using Bondstrand® GRE for Ballast, Vent and Drain lines

In 1999, BP drilled the Platina and Plutonio wells using the deepwater drillship Pride Angola, and followed these in 2000 with four more: Galio, Paladio, Cromio and Cobalto. These are all located within 20 km of each other and form the Greater Plutonio development offshore Angola. Later discoveries included the Cesio and Chumbo fields, slightly further to the south and west. If developed, Cesio could potentially be tied back to Greater Plutonio although Chumbo might be developed separately. The Greater Plutonio development was approved in early 2004. BP Angola and Shell Exploration and Production Angola BV hold the Block 18 exploration permit under a production-sharing contract with Angola's state-owned oil company, Sociedade Nacional de Combustveis de Angola (Sonangol).

Scope of Supply

- Ballast in Tanks and Machinery Spaces
- Cargo Tank Purge Lines
- Inert Gas
- Header Drains

Vendor	NOV Fiber Glass Systems, Manufacturer of Bondstrand pipe systems
Contractor	HHI, Fabrication FPSO hull and topside equipment
Consultant	KBR Halliburton, Kellogg Brown & Root overseeing engineering, procurement, contract and management
Specification	Pipex Ltd., UK based materials specification and technical engineering support regarding supply of Bondstrand pipe systems
Classification	Bureau Veritas
Standards	IMO A.753(18) and ISO 14692

Project

Greater Plutonio, Block 18, Angola

Shipyard

Hyundai Heavy Industries, Korea

Client

British Petroleum (BP) Angola

Pipe system

Bondstrand 7000M pipes with 2416C fittings and Taper/Taper adhesive-bonded joints. Various diameters ranging from 2-24 inch (50-600 mm). Total quantity: 2400 meter.

Operating Conditions

Operating pressure:	Full vacuum to 7.5 bar
Operating temperature:	Ambient to 70°C
Design pressure:	16 bar
Design temperature:	93°C
Test pressure:	24 bar

Installation date

2007