

Santos

Dorado Development Project

Project	Dorado Development Project
Package Title	Offloading System
Reference Number	0D200-AIP-E-80-FD-000001-001
Package Description	<p>The Dorado Project is a greenfield oil development located offshore WA approximately 150km northwest of Port Hedland comprising of a Floating Production Storage and Offloading vessel (FPSO), Wellhead platform (WHP) and various subsea (SURF) equipment.</p> <p>The Offloading Station is located at the Upper deck, stern of the FPSO, Port side. The crude oil discharge system shall be a passive system for offloading crude oil from the FPSO to the shuttle tanker midships manifold via a floating hose. During offloading, the off-take tanker is moved in tandem to the FPSO and connected to the FPSO with a mooring hawser. In case of emergency, the hawser shall be capable of manual release both locally and remotely.</p> <p>The tandem mooring system shall consist of a releasable hawser-handling winch which shall incorporate hawser winch, load cell, fairlead, strongpoint and a releasable hook in one compact unit. The hawser mooring winch shall allow unassisted high speed pay-out of the hawser into the sea and to have a releasable strongpoint at the end of the hawser.</p> <p>The Offloading Station shall be able to transfer 650,000 bbl +/- 5% of oil to the shuttle tanker in no more than twenty four (24) hours (offloading rate of 4932m³/h). The total discharge of oil shall be made considering the FPSO at all operational draught variations. Design shall also take account of the oil physical properties, particularly to the viscosity and temperature, and for the losses through the offloading station (valves, hose reel, offloading hose etc.). Specific gravity of crude oil shall be assumed as 0.779 t/m³.</p> <p>The main components of the Offloading station shall include, but not limited to:</p> <ul style="list-style-type: none"> - Complete offloading and hawser system, including emergency offloading assembly - Releasable hawser handling winch c/w load cell and control device remote operated - Mooring hawser system with 75 meter of length c/w chafe chain, hawser grommet, pick up rope, buoy, shackles & messenger line - Hydraulic system, including HPU c/w accumulator

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	<ul style="list-style-type: none"> - Monitoring and control system c/w local and remote panel - Dual or double carcass Hose string (abt. 240m, 20", 150# centenary crude hose) c/w quick release coupling remote operated - 20" ESD valve <p>Supplier shall design, fabricate, supply, and provide necessary assistance in installing and commissioning of the Offloading Station to enable transfer of stabilized crude oil from the FPSO to the bow manifold of the tandem moored shuttle tanker.</p>
Specifications and Standards	<p>Compliance with National, International and Industry Standards, Australian and WA Regulatory requirements, and DNV class.</p> <p>The offloading system shall be designed to meet the requirement of MARPOL, DNV Classification requirements, and apply the OCIMF Tandem Mooring and Offloading Guidelines on ship to ship transfer operations.</p>
Delivery Place (if applicable)	Singapore
Full Scope Expression of Interest Closing Date	26-Nov-2021
Supplier Instructions	<p>Supplier(s) are to express interest via ICN Gateway where competency and previous positive experiences for similar projects can be demonstrated for equipment of a similar size and service.</p> <p>Supplier(s) will only be considered for receipt of the Tender if deemed suitably qualified by the Company's Procurement Entity.</p>
Contact	<p>All initial enquiries should be made through the Industry Capability Network Western Australia.</p> <p>Ray Loh Ray.Loh@icnwa.org.au +61 8 9365 7499</p>
URL	For more information about Santos please refer to their website santos.com