

DPS FPSO REFERENCES - 2003 to Nov 2009



Order Date	Job Ref	Project Name	Project Description	Company	DPS Scope
2009	J09026	Chim Sao Dua FPSO Vietnam Phase 2	FPSO Topsides	Emas Offshore	Detailed Engineering of ProcessTopsides
2009	J09025	Chim Sao Dua FPSO Vietnam Phase 2	FPSO Topsides	Emas Offshore	Interface Engineering and Management ProcessTopsides
2009	J08059	Indonesia FPSO	FEED for potential upgrade of FPSO for new field deployment	Confidential	Process Topsides
2009	J09009	EWT Topsides	EWT Topsides Concept	Confidential	Process Topsides
2009	J09008	Confidential FPSO Inspection	Engineering Support - Inspection and report of suitability of existing FPSO	Confidential	Review Of Process Topsides
2009	J09005	Confidential - SE Asia Project	Review Suitability Of Existing FPSO for Indonesian Field	Confidential	Engineering Study
2009	J09002	Petrobras Jubarte Field FPSO	Sand Cleaning package	SBM	Design Of Topsides Sand Cleaning Package
2009	J09001	Petrobras Jubarte Field FPSO	CyFlo Sand Fluidisation Manifolds for Separators	SBM	Design and Supply of CyFlo Sand Fluidisers
2009	J09006	Te Giac Trang Field Development	FPSO Topsides FEED + Budget	Confidential	Process Topsides FEED and Budgeting
2008	J08060	Conversion of Buoy to FPS	Feasibility Study	Confidential	Feasibility Study
2008	J08049	Ruby FPSO	CyFlo Sand Fluidisation Manifolds for Separators	MISC	Design and Supply of CyFlo Sand Fluidisers
2008	J08038	Chim Sao Dua FPSO Vietnam Phase 2	FPSO Topsides (Project On Hold)	Emas Offshore	Detailed Engineering & EPC Supply of ProcessTopsides
2008	J08040	Chim Sao Dua Interface	Interface Engineering (Project On Hold)	Emas Offshore	Topsides Interface Engineering (team based in Singapore)
2008	J08041	Papa Terra Field Development via TLWP	FEED for Tension Leg Platform Process Topsides	Keppel FELS Brasil	Process Topsides FEED
2008	J08037	Maureen	Concept Screening Study	Fairfield Energy Ltd	Concept screening for field development including economic evaluation (+/-30% on CapEx) - including subsea tie-back and Varg FPSO
2008	S08002	BW Carmen Candidate Fields	BW Carmen FPS Mechanical and Electrical Inspection	BW Offshore AS	Engineering Services
2008	J08004	Chim Sao Dua FPSO	Design Competition FPSO Topsides	Emas Offshore	Topsides FEED
2008	J08048	Nexus 2 FPSO	Gas Dehydration (Glycol) Package (Project On Hold)	Samsung Heavy Industries, Korea	Detailed Design and Supply Proprietary Mtls
2008	J08007	Nexus 2 FPSO	Production Separators (Project On Hold)	Samsung Heavy Industries, Korea	Production Separators and Electrostatic Coalescer
2008	J08001	Oyo FPSO Nigeria	FPSO Topsides Detailed Engineering	Bumi Armada Berhad	Process Topsides Detailed Engineering
2007	J07187	Cascade & Chinook EWT/EPS	FPSO Topsides	BW Offshore AS	Detailed Engineering & EPC Supply of ProcessTopsides
2007	J07188	Cascade & Chinook FPSO Interface Engineering	Interface Engineering	BW Offshore AS	Topsides Interface Engineering
2007	J07183	Ruby Field FPSO (Blocks 1 & 2) Vietnam	FPSO Topsides- E&P	MMHE (MSE)	Process Topsides Detailed Design & Supply of Major Materials
2007	J07184	Nexus 1 FPSO	Gas Dehydration (Glycol) Package	Samsung Heavy Industries, Korea	Detailed Design and Supply Proprietary Mtls
2007	J07178	Nexus 1 FPSO	Production Separators + Coalescer	Samsung Heavy Industries, Korea	Production Separators and Electrostatic Coalescer
2007	J07179	SE Asia Field	Concept screening for field development	Nido Petroleum Ltd	Concept screening for field development including economic evaluation (+/-30% on CapEx)
2007	J07169	Crystal Sea	Upgrade Of Crystal Sea - Reimbursable Contract	BW Offshore AS	Engineering Study

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2006	J06163	Bilabri Field	FPSO Upgrade Project - Heat Exchanger Evaluation	BW Offshore AS	Engineering Study
2006	J06150	East Fortune FPSO	FPSO Process Topsides EPC	Songa Floating Production	Process Topsides EPC
2006	J06161	FPSO Bilabri & Owanare, Block OML 122	Flow Assurance Study	Peak Petroleum Industries Nigeria Ltd	Engineering Study
2006	J06150	East Fortune FPSO	FPSO FEED	Songa Floating Production	Engineering Study
2006	J06133	Crystal Sea FPSO Manpower	Supply of Process Supervisors for Crystal Sea FPSO in addition to ongoing engineering support	Seatankers	Manpower
2006	J06137	Crystal Sea FPSO Sand Treatment	Design, supply, installation and testing of sand cleaning package onboard Crystal Sea (including a 1" CyFlo Unit). Installation completed in Singapore	Seatankers	Solids Management
2005	J05128	Crystal Sea FPSO	Crystal Sea Recertification	Seatankers	Engineering
2005		Generic Process System	FPSO FEED	Swire Production Solutions	Design of a Modular Separation System to treat 25,000bpd oil and 50MMSCFD gas. System had to be compact as installed on small floating vessel
2005		Operations Supervision	Provision of Domain Experts, Process Supervisors and other offshore operations personnel for Knock Taggart FPSO in Nigeria	Fred Olsen / Redband	Manpower
2005		Morsa West Field Development	Concept to installation of a 20,000bpd crude processing facility. Project involved conversion of a jack up drilling rig to become a production facility exporting crude oil 33km via a subsea line to an existing FPSO.	Angola Drilling Company	Process Topsides EPC
2005		Recertification of Crystal Ocean FPSO	Recertification of the FPSO Topsides	Crystal Production AS	Recertification of Process Topsides to meet DNV classification for a FPSO. Supply of Specialist Design and Operations experts to ensure plant suitability for new project in Australia
2004		Golfino Project	Design Application Study - review of existing FPSO suitability for application as an Early Production Vessel on the Golfino Project. Deliverables included full process and operations review, scope and pricing definitions.	Crystal Production AS	Engineering Study
2003		CFD-11 FPSO, Bohai Bay	Sand Fluidisation Manifolds for Separators	CNOOC China Ltd - Tianjin	Supply of sixteen Sand Fluidiser Manifolds for in-line solids removal in 1st and 2nd stage separators. Also supply of sand receiving and cleaning vessel to permit solids to be discharged overboard.
2003		Bunga Kertas FPSO	FPSO Process Topsides Design & Supply	MMHE (MSE)	Process Topsides E+P
2003		Crystal Sea Study	FPSO Engineering Study	Crystal Production AS	Engineering study into modifications required to existing FPSO for operation on a new marginal field. Report make recommendations on required modifications and capital expenditure required.