CLIENT	PROJECT	COUNTRY	CLASS SOCIETY	WATERDEPTH	DESCRIPTION OF PROJECT		YEAR
Mooreast / Blue Ocean	Rubsih removal in Klang river	Malaysia	NA	5 m	<ol> <li>Hydrodynamic of rubbish collecting vessel.</li> <li>Mooring system design for rubbish collecting vessel</li> <li>Review of floating barrier design and operation</li> </ol>		2021
NOC	FSO & CALM Buoy	Qatar	ABS	70 m	<ol> <li>FEED STUDY level 2&amp;3 for the mooring systems and vessel conversion requirements for FSO and CALM Buoy system</li> <li>Chain stoppers and mooring system, specifications, RFQ</li> <li>Structural design and engineering for reinforcements on vessel</li> <li>Naval Architecture for conversion</li> <li>Mooring analysis</li> <li>Fatigue analysis</li> <li>Mooring system design</li> </ol>		2020
SOA / Hyundai (HOB)	CALM Buoy	Korea	ABS	34 m	<ol> <li>Chain tensioning system engineering, analysis, procedures and drawings</li> <li>Offshore installation analysis and procedures</li> <li>Structural modifications design &amp; engineering</li> </ol>		2020
NOC	FSO & CALM Buoy	Qatar	ABS	70 m	<ol> <li>FEED STUDY for mooring systems options</li> <li>Technical commercial review of solutions</li> <li>Design of mooring system , mooring analysis</li> </ol>		2020
UTS / CORTEZ	Offshore Installation	Singapore	DNV	500 m	<ol> <li>Structural design and engineering of requirements and changes for the VLS system to be loaded on board the installation vessel, for the SURF installation of flowlines and risers</li> <li>Integration of new system with existing systems</li> </ol>		2020
NOC	FSO & CALM Buoy	Qatar	ABS	70 m	<ol> <li>FEED level 1 STUDY for the mooring systems and vessel conversion requirements</li> <li>Chain stoppers and mooring system</li> <li>Thruster and their requirements and analysis</li> <li>Structural reinforcements on vessel</li> <li>Naval Architecture for conversion</li> </ol>		2019

CLIENT	PROJECT	COUNTRY	CLASS SOCIETY	WATERDEPTH	DESCRIPTION OF PROJECT		YEAR
Amaniaga	CALM Buoy	Malaysia	ABS	30 m	<ol> <li>Detailed Mooring Analysis, including Fatigue for CALM Buoy</li> <li>Review of requirements for upgrade of buoy.</li> <li>Procedures for installation</li> </ol>		2019
MOPU HOLDINGS	Temporary Storage Tanker	Malaysia	ABS	60 m	<ol> <li>Reinstatement of Mooring System</li> <li>Complete analysis design checks and reviews for the mooring system</li> <li>Complete Installation procedures and on-going review</li> </ol>		2019
SOA / Hyundai (HOB)	CALM Buoy	Korea	ABS	34 m	<ol> <li>Hydrodynamic analysis of CALM Buoy</li> <li>Complete Mooring analysis, design and engineering, fatigue assessment etc.</li> <li>Riser analysis, design and engineering</li> <li>Detailed Installation Procedures</li> </ol>		2019
HESS Exploration & Production	FSO	Malaysia	ABS	56 m	<ol> <li>DEEPBLUE was appointed as the overall Technical and Managerial consultant for the engineering of the offshore installation.</li> <li>Multiple DB personnel were appointed as the overall HESS Transport &amp; Installation Management, in order to manage the different subcontractors from a technical and managerial point of view on-shore and during the offshore campaign for the FSO, mooring and SURF Installation.</li> <li>Including flowline lay, mooring installation and hook-up, SAT diving etc.</li> </ol>		2018
CAFHI	Jet-fuel offloading terminal	Singapore	ABS	15 m	<ol> <li>Including flowline lay, mooring installation and nook-up, SAT diving etc.</li> <li>Design and engineering of the mooring system for several size tankers for the offloading of cargo.</li> <li>Design and engineering of the Hose and SURF system for the offloading of the cargo at the terminal.</li> </ol>		2018
HESS Exploration & Production	Temporary Storage Tanker	Malaysia	ABS	56 m	<ol> <li>Complete EPIC contract of the Temporary Storage Tanker.</li> <li>Design of the mooring system for a Temporary Storage Tanker (TST) for condensate storage.</li> <li>Design of the subsea flowline, riser and hose system for condensate transfer from Central Processing Platform (CPP) to the TST.</li> <li>Design of subsea support bases and gravity systems.</li> <li>Upgrading of 6-point mooring system to 8-point mooring system to increase the operability.</li> <li>Structural modifications to install 2 chain stoppers and 1 QRH at the stern of the TST.</li> <li>Installation engineering for the tanker, mooring and SURF.</li> </ol>		2017- 2018

Offshore Installation	Detailed Design & Engineering / FEED	Environmental / Offshore renewables	Expert Witness - MWS and 3 <sup>rd</sup> Party Independent Review	Decommissioning	Page 2
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CLIENT	PROJECT	COUNTRY	CLASS SOCIETY	WATERDEPTH	DESCRIPTION OF PROJECT		YEAR
					<ol> <li>Provision of all personnel for installation, management, Flowline installation management</li> <li>EPIC of the Offshore installation of the tanker, mooring system and SURF.</li> <li>Offshore TST changeout of 6-point moored tanker with a new 8-point moored tanker.</li> <li>Design engineering and offshore procedures for offloading of condensate.</li> </ol>		
JMUS	Floating Dock Installation	India	LR	25 m	<ol> <li>Installation engineering and procedures for mooring installation and hook up.</li> <li>Offshore installation of the mooring system.</li> <li>Offshore Personnel support during the installation.</li> </ol>		2017
SPT Offshore	Accommodation barge	Netherlands / Malaysia	ABS	73 m	<ol> <li>Field lay-out and mooring system design.</li> <li>Mooring analysis and design for a construction support barge.</li> <li>All engineering drawings for the design and installation.</li> </ol>		2017
LNG Link	FSRU	Indonesia	-	4 to 10 m	<ul> <li>Feasibility and FEED study at multiple locations for</li> <li>1. Mooring system</li> <li>2. SURF and Hose system</li> <li>3. Budgets and project execution.</li> </ul>		2017
Optima Energy	Multi Buoy Mooring for LPG Offloading	Cameroon	-	20 m	<ol> <li>Feasibility and FEED study for the mooring of LPG Offloading System</li> <li>Preliminary costing for equipment and installation</li> </ol>		2017
Optima Energy	Multi Buoy Mooring for LPG Offloading	Nigeria	-	8 m	<ol> <li>Feasibility and FEED study for the mooring of LPG Offloading System</li> <li>Preliminary costing for equipment and installation</li> </ol>		
Yinson	FPSO	Singapore	ABS	300 m	<ol> <li>Review of mooring proposals performed by others</li> <li>Review of hydrodynamics performed by others</li> </ol>		2017
UAE Company	FPSO	UAE	DNV	80 m	<ol> <li>Engineering and design of Offshore anchor installation for Client</li> <li>Engineering personnel present Offshore during anchor installation</li> </ol>		2016- 2017

Offshore Installation	Detailed Design & Engineering /	Environmental / Offshore	Expert Witness - MWS and 3 <sup>rd</sup>	Decommissioning	Page 3
	FEED	renewables	Party Independent Review	Decommissioning	

CLIENT	PROJECT	COUNTRY	CLASS SOCIETY	WATERDEPTH	DESCRIPTION OF PROJECT		YEAR
Coastal Energy	Banang Field	Malaysia	ABS	70 m	<ol> <li>Engineering &amp; Detailed design of a temporary mooring system for the tanker.</li> <li>Detailed installation procedures, analysis and drawings.</li> <li>MWS approval</li> <li>Offshore Installation management and engineering execution by DEEPBLUE personnel</li> </ol>		2016
Coastal Energy	Kappal Field	Malaysia	ABS	70 m	<ul> <li>Mooring decommissioning of Storage Tanker and Offshore de-installation detailed engineering and design and execution:</li> <li>1. Detailed design and engineering of removal of the mooring system.</li> <li>2. Detailed de-installation procedures, analysis and drawings.</li> <li>3. Offshore removal of Tanker</li> <li>4. MWS approval</li> <li>5. Offshore management and engineering support by DEEPBLUE personnel</li> </ul>		2016
CAFHI	Vessel Terminal	Singapore	ABS	15 m	<ol> <li>Detailed design and Engineering:</li> <li>Mooring system design and analysis for loading vessel.</li> <li>Mooring design and analysis for vessel along the quay side.</li> <li>Naval Architectural review of the vessel with respect to the components and systems required for Mooring.</li> <li>Drawings, analysis, procedures.</li> <li>Installation procedures.</li> </ol>		2016
Exon Mobile / Amaniaga	Mooring system Installation	PNG	ABS	15 m	<ol> <li>Mooring Offshore installation detailed engineering and design and execution:</li> <li>Detailed design and engineering of mooring system installation.</li> <li>Sea-fastening of all equipment.</li> <li>Detailed installation procedures, analysis and drawings.</li> <li>HAZID – SIMOPS.</li> <li>Offshore management and engineering support by DEEPBLUE personnel</li> </ol>		2016

Offshore Installation	Detailed Design & Engineering / FEED	Environmental / Offshore renewables	Expert Witness - MWS and 3 <sup>rd</sup> Party Independent Review	Decommissioning	Page 4
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CLIENT	PROJECT	COUNTRY	CLASS SOCIETY	WATERDEPTH	DESCRIPTION OF PROJECT	ТҮРЕ	YEAR
Mitsui	Floating Windmill	Japan	DNV	70 m	<ol> <li>Detailed Engineering and design for a floating windmill:</li> <li>Naval Architectural requirements</li> <li>Mooring and anchoring system</li> <li>Suction piles and drag anchors design</li> <li>Installation procedures and engineering review</li> <li>Cost estimation for mooring system and installation</li> </ol>		2016
UAE Company	FPSO	UAE	DNV	80 m	<ol> <li>EPIC for the following:</li> <li>Mooring system, anchors, winches</li> <li>Subsea, Risers and umbilical</li> <li>Detailed design of under deck strengthening for all non-process related topsides and marine equipment</li> <li>Design of riser &amp; Umbilical porches, floating hose porches</li> <li>General Naval Architecture</li> <li>Marine systems engineering and design</li> <li>Offshore Installation support, engineering and procedures</li> </ol>		2015- 2016
Dolphin Drilling/Viking	Mooring Analysis	Indonesia	ABS	30 m	<ul> <li>Detailed design and Engineering:</li> <li>1. Mooring analysis of drill ship with Class / MWS approval</li> <li>2. Drawings of mooring system and field layout</li> <li>3. Installation specification for the mooring systems</li> </ul>		2015
GLOCAL	Floating Windmill	Japan	DNV	70 m	<ol> <li>Detailed Engineering and design for a floating platform:</li> <li>Naval Architectural requirements</li> <li>Hydrodynamics</li> <li>Mooring design and anchoring system</li> <li>Suction piles and drag anchors design</li> <li>Installation procedures and engineering review</li> <li>Cost estimation for mooring system and installation</li> </ol>		2015

Offshore Installation	Detailed Design & Engineering / FEED	Environmental / Offshore renewables	Expert Witness - MWS and 3 <sup>rd</sup> Party Independent Review	Decommissioning	Page 5
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CLIENT	PROJECT	COUNTRY	CLASS SOCIETY	WATERDEPTH	DESCRIPTION OF PROJECT		YEAR
Bumi Armada	FSO Feasibility Studies	Myanmar	ABS	20 m	<ol> <li>Feasibility study of the FSO to be stationed offshore Myanmar comprising of:</li> <li>Mooring analysis for spread moored system.</li> <li>Offloading analysis of FSO and shuttle tanker.</li> <li>Field layout and mooring drawings.</li> <li>Comparative study of various mooring and offloading options.</li> </ol>		2015
BC Petroleum	EPV Balai Mutiara	Malaysia	ABS	70 m	<ol> <li>Engineering design and Consultant for the EPV Upgrade for SURF, mooring and installation:</li> <li>Field lay-out review and development.</li> <li>Mooring analysis, mooring fatigue, tandem analysis.</li> <li>Riser analysis.</li> <li>Design and engineering of vessel structural modifications requirements for mooring, risers, and the offshore installation.</li> <li>Specifications for mooring systems, components, vessel equipment, offloading hoses, winches and dependant structures and equipment.</li> <li>Offshore installation analysis, procedures, methodology, requirements and specifications.</li> <li>Review of Company produced engineering packages and detailed design.</li> <li>Review of Company subcontractors work and proposals.</li> <li>Marine warranty surveyor, review of 3rd party engineering.</li> </ol>		2014 - 2015
COBALT	Cameia	West Africa	ABS	2800 m	<ol> <li>SURF, Subsea mooring, and installation detailed engineering for an FPSO comprising of:         <ol> <li>Field lay-out review and development.</li> <li>Mooring analysis, mooring fatigue, tandem analysis, use of synthetic moorings for deep water.</li> <li>Mooring analysis for turret and spread-moored</li> <li>Riser and umbilical analysis, coupled analysis with mooring system, for the different options.</li> <li>Design and engineering of vessel structural modifications requirements for mooring, risers, and the offshore installation.</li> <li>Specifications for mooring systems, components, vessel equipment and dependant structures and equipment.</li> <li>Offshore Installation analysis, procedures, methodology, requirements and specifications.</li> </ol> </li> </ol>		2014

Offshore Installation	Detailed Design & Engineering / FEED	Environmental / Offshore renewables	Expert Witness - MWS and 3 <sup>rd</sup> Party Independent Review	Decommissioning	Page 6
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CLIENT	PROJECT	COUNTRY	CLASS SOCIETY	WATERDEPTH	DESCRIPTION OF PROJECT	ТҮРЕ	YEAR
M3nergy	Perintis FPSO	Indonesia	ABS	30 m	<ul> <li>Mooring and installation detailed design &amp; engineering:</li> <li>1. Detailed Mooring analysis for vessel lay-up.</li> <li>2. Specifications of mooring system.</li> <li>3. Offshore Installation requirements.</li> </ul>		2014
Coastal Energy	Banang Field	Malaysia	ABS	70 m	<ol> <li>Mooring and Offshore installation detailed engineering and design and execution:         <ol> <li>Detailed design and engineering of mooring system.</li> <li>Detailed design and engineering of Side by Side offloading, simulation of SBS.</li> <li>Detailed installation procedures, analysis and drawings.</li> <li>Offshore Installation</li> <li>Offshore management and engineering support by DEEPBLUE personnel</li> </ol> </li> </ol>		2014
NAE – Bumi Armada	ETAN FPSO	Nigeria	ABS	1800 m	<ol> <li>FEED study for an FPSO comprising of:         <ol> <li>Field lay-out review and development.</li> <li>Mooring analysis, mooring fatigue, tandem analysis, use of synthetic moorings for deep water.</li> <li>Preliminary riser and umbilical analysis, coupled analysis with mooring system.</li> <li>Design and engineering of vessel structural modifications requirements for mooring, risers, and the offshore installation.</li> <li>Specifications for mooring systems, components, vessel equipment and dependant structures and equipment.</li> </ol> </li> </ol>		2014
PETROBRAS – Bumi Armada	LIBRA FPSO	Brazil	ABS	2400 m	<ol> <li>FEED study for an FPSO comprising of:         <ol> <li>Field lay-out review and development.</li> <li>Mooring analysis, mooring fatigue, tandem analysis, use of synthetic moorings for deep water.</li> <li>Riser and umbilical analysis, coupled analysis with mooring system.</li> <li>Design and engineering of vessel structural modifications requirements for mooring, risers, and the offshore installation.</li> <li>Specifications for mooring systems, components, vessel equipment and dependant structures and equipment.</li> </ol> </li> </ol>		2014
M3nergy	Perintis FPSO	Malaysia	ABS	20 m	<ol> <li>Mooring detailed design &amp; engineering:</li> <li>1. Detailed Mooring analysis for vessel lay-up.</li> <li>2. Specifications of mooring system.</li> <li>3. Offshore Installation requirements.</li> </ol>		2014

Offshore Installation	Detailed Design & Engineering / FEED	Environmental / Offshore renewables	Expert Witness - MWS and 3 <sup>rd</sup> Party Independent Review	Decommissioning	Page 7
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CLIENT	PROJECT	COUNTRY	CLASS SOCIETY	WATERDEPTH	DESCRIPTION OF PROJECT	ТҮРЕ	YEAR
ENI – Bumi Armada	OCTP FPSO	Ghana	ABS	900 m	<ol> <li>FEED study for an FPSO comprising:         <ol> <li>Field lay-out review and development.</li> <li>Mooring analysis, mooring fatigue, tandem analysis, use of synthetic moorings for deep water.</li> <li>Preliminary riser and umbilical analysis, coupled analysis with mooring system.</li> <li>Design and engineering of vessel structural modifications requirements for mooring, risers, and the offshore installation.</li> <li>Specifications for mooring systems, components, vessel equipment and dependant structures and equipment.</li> </ol> </li> </ol>		2013 - 2014
Tullow	KUDU FPU	Namibia	DNV	160 m	<ol> <li>FEED study for an FPU comprising:         <ol> <li>Field lay-out review and development.</li> <li>Mooring analysis, mooring fatigue, tandem analysis, use of synthetic moorings for deep water.</li> <li>Preliminary riser and umbilical analysis, coupled analysis with mooring system.</li> <li>Design and engineering of vessel structural modifications requirements for mooring, risers, and the offshore installation.</li> <li>Specifications for mooring systems, components, vessel equipment and dependant structures and equipment.</li> </ol> </li> </ol>		2013
Coastal Energy	Storage Tanker for Kapal Field	Malaysia	ABS	70 m	<ul> <li>Mooring system for production tanker:</li> <li>1. Detailed design and engineering of mooring system.</li> <li>2. Detailed design and engineering of Side by Side offloading, simulation of SBS.</li> </ul>		2013
PETRONAS – TECHNIP	Bukit Tua FPSO	Indonesia	ABS	70 m	<ol> <li>Mooring and SURF:         <ol> <li>Supply of mooring and riser engineering personnel.</li> <li>Mooring analysis, mooring fatigue analysis.</li> <li>Riser analysis, riser design.</li> <li>Design and engineering of mooring and riser systems on board the FPSO.</li> <li>Design and engineering of Marine systems.</li> <li>Design and engineering of the offshore installation for mooring and risers.</li> <li>Preparation of Detailed Specifications for all mooring, risers, subsea and marine systems.</li> </ol> </li> </ol>		2012 - 2013

Offshore Installation	Detailed Design & Engineering / FEED	Environmental / Offshore renewables	Expert Witness - MWS and 3 <sup>rd</sup> Party Independent Review	Decommissioning	Page 8
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CLIENT	PROJECT	COUNTRY	CLASS SOCIETY	WATERDEPTH	DESCRIPTION OF PROJECT	ТҮРЕ	YEAR
Lundin – Bureau Veritas	IKDAM FPSO	Malaysia	DNV	70 m	<ul> <li>Feasibility study and concept selection for mooring systems, SURF, and field lay-out of the IKDAM FPSO:</li> <li>1. Mooring analysis.</li> <li>2. Field lay-out options review.</li> <li>3. HSE and operational analysis of the concepts.</li> <li>4. Commercial and Technical review of the concepts.</li> </ul>		2012
PTTEP	FSO-3	Thailand	ABS	70 m	<ol> <li>Study of future production requirements, mooring, SURF, installation:         <ol> <li>Feasibility study and pre-FEED for the development of a new FSO and integration with the existing field architecture.</li> <li>Mooring analysis and requirements for FSO, CALM buoy.</li> <li>Flexible riser analysis</li> </ol> </li> </ol>		2012
ONGC	D-1 FPSO	India	ABS	150 m	<ul> <li>Overall technical manager on behalf of ONGC for:</li> <li>1. Riser systems and subsea.</li> <li>2. Mooring system, offshore installation.</li> <li>3. Naval architecture, hull, vessel, structural systems.</li> <li>4. All marine systems on board the FPSO, marine engineering.</li> </ul>		2011 - 2012
Coastal Energy	Songkhla	Thailand	ABS	20 m	<ol> <li>Detailed design, support at procurements and installation:</li> <li>1. Field lay-out, mooring design and analysis, SURF design and analysis, offshore installation.</li> <li>2. Hydrodynamic analysis of vessels</li> <li>3. Continuous EPIC support for the for the different. Songkhla FSOs.</li> </ol>		2011 _ 2012
KEI – TJS	Sepanjang FSO	Indonesia	ABS	45 m	<ol> <li>Mooring, SURF, installation, naval architecture:</li> <li>Design and engineer of mooring system and riser system for the FSO.</li> <li>Offshore installation engineering and provision of support personnel for the offshore phase.</li> </ol>		2010 - 2011

Offshore Installation	Detailed Design & Engineering / FEED	Environmental / Offshore renewables	Expert Witness - MWS and 3 <sup>rd</sup> Party Independent Review	Decommissioning	Page 9
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CLIENT	PROJECT	COUNTRY	CLASS SOCIETY	WATERDEPTH	DESCRIPTION OF PROJECT	ТҮРЕ	YEAR
ONGC-DPS	D-1 FPSO	India	ABS	150 m	<ol> <li>FEED study for:         <ol> <li>Mooring systems, riser systems, subsea components, offshore installation.</li> <li>FSO structural, marine and naval architectural requirements.</li> <li>Preparation of technical specification and RFQs for the above in order to issue for BID to EPIC Contractor.</li> </ol> </li> </ol>		2010
Chevron – EDG	FSO Vietnam Block B Gas Project FEED Study	Vietnam	ABS	150 m	<ol> <li>Detailed design and FEED study for:</li> <li>Mooring systems, riser systems, subsea components, offshore installation.</li> <li>FSO structural, marine and naval architectural requirements.</li> <li>All marine systems, IG, cargo, ballast, HVAC, LQ, ER, electrical, mechanical etc.</li> <li>Preparation of technical specification and RFQs for the above in order to issue for BID to EPIC Contractor.</li> </ol>		2010
ONGC – DPS	D-1 FPSO FEED Study	India	ABS	150 m	<ol> <li>Conceptual design and FEED for:         <ol> <li>Mooring systems, riser systems, subsea components, field lay-out.</li> <li>FSO structural, marine and naval architectural requirements.</li> <li>Preliminary installation method statements.</li> <li>Preparation of Technical Specification and RFQs for the above in order to issue for BID to EPIC Contractor.</li> </ol> </li> </ol>		2010
Petrofac – DPS	FPSO FEED Study Cendor II	Malaysia	ABS	80 m	<ol> <li>FEED study for:</li> <li>Mooring systems, Riser Systems, Subsea components</li> <li>FSO structural, marine and Naval Architectural requirements</li> <li>All Marine systems, IG, Cargo, ballast, HVAC, LQ, ER, Electrical, mechanical etc.</li> <li>Preparation of Technical Specification and RFQs for the above in order to issue for BID to EPIC Contractor.</li> </ol>		2009 _ 2010

CLIENT	PROJECT	COUNTRY	CLASS SOCIETY	WATERDEPTH	DESCRIPTION OF PROJECT	ТҮРЕ	YEAR
Coastal Energy	Songkhla FSO	Thailand	ABS	20 m	<ol> <li>Mooring, SURF, field lay-out:</li> <li>Design of new and review of existing system with respect to mooring, risers, offshore and subsea arrangement.</li> <li>Mooring analysis and design.</li> <li>Offloading analysis and design.</li> <li>Riser analysis and design.</li> <li>Hose analysis and design.</li> <li>Vessel mooring requirements and Installation requirements.</li> </ol>		2009 _ 2010
Galoc Petroleum Company	FPSO	Philippines	DNV	600 m	<ul> <li>Review of client's subcontractors design and engineering:</li> <li>1. Mooring system,</li> <li>2. Riser and SURF</li> <li>3. Offshore Installation</li> </ul>		2009  2010
Mistubishi Oil	Sepanjang FSO	Indonesia	ABS	45 m	Review on behalf of Client the detailed design of mooring and risers, review of subcontractors.		2009
Kangean Energy Indonesia	Temporary Sepanjang FSO	Indonesia	ABS	45 m	Design, delivery and installation of mooring system and support during operational phase.		2009
Prosafe Productions	POLVO FPSO	Brazil	ABS	800 m	Offloading mooring analysis for moored FPSO POLVO.		2008
Prosafe Productions	ABO FPSO	Nigeria	ABS	600 m	Mooring analysis for the extension of the riser system and its installation.		2008
Larsen Oil & Gas	FPSO X	Singapore	DNV	200 m	Design responsibility for field lay-out riser configuration, subsea systems, mooring systems, and offshore works.		2008