



## CURRICULUM VITAE

### **COLIN JOHN BARKER**

B. Eng. (Hons), C. Eng., F.R.I.N.A, Master Mariner

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#### **Professional and Academic Qualifications**

B.Eng. Naval Architecture and Shipbuilding with First Class Honours from the University of Newcastle upon Tyne.

Department of Transport Class 1 (Deck) Masters Foreign Going Certificate.

Lloyd's Register Quality Assurance Internal Quality Auditing Course, April 1991 and Use of Materials and Non Destructive Testing Course, November 1988

Chartered Engineer

Fellow of the Royal Institution of Naval Architects

(Member of the RINA IMO Committee, attending and contributing to IMO MSC and Sub Committees where RINA is represented as an NGO)

Lloyd's Salvage Arbitration Branch Special Casualty Representative (SCR) from 2010 until 2023

#### **Previous SCR appointments:**

FJORDVIK (grounded) 2018; PRISCILLA (grounded) 2018; RAYSUT II (grounded) 2018; KIRAN (flooded) 2015; NORMAN ATLANTIC (fire) 2014/15; AMT EXPLORER (capsized and





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inverted) 2014; KIANI SATU (grounded) 2013; CELIA (grounded) 2012; B.OCEANIA (collision damaged and foundered) 2011

**Current/previous work includes:-**

**TMC (Marine Consultants) Ltd, London**

Consultant Naval Architect May 2021 – Present

Technical Director 2009- May 2021

Surveyor Naval Architect 1999

Expert witness at Commercial Court, Arbitrations and other legal hearings in London, the U.S.A and New Zealand concerning wreck removal, stability, salvage, flooding, foundering, offshore accidents, steel coil and project cargo loss or damage, ship construction disputes and container deck stow collapses.

Reports, investigations and surveys for various offshore accidents and disputes including:

- 2019 Saipem 7000 SSCV upgrade and South Stream deep water pipelay project contract cancellation dispute;
- 2017 Approval of methodology and on-site attendance on crane/work barge for South Pars SPD13-A jacket removal after a ship strike;
- 2017 Consultant to loss adjuster for dispute regarding removal costs for the damaged Yme jack-up production platform;
- 2016 Tender preparation and approval of methodology for removal of the wrecked wind farm installation jack-up SEA WORKER.

Other offshore consultancy/investigations include: Total loss of a current and wind energy device off Japan; recovery of survey vessel streamer array; loss of LEWEK LEADER lift boat (jack-up) leg offshore Nigeria; various supply boat/AHTS collisions with platforms (cost of repairs); Texaco Captain integrated deck striking the Erskine bridge during sail out; SOLITAIRE pipelay barge conversion contract dispute; total loss of the 3,600 ton Petronius Tower South Module following a fall wire failure whilst being lifted by derrick barge DB50 in the Gulf of Mexico.

Salvage consultant, surveys and investigations of vessels grounded, fire or collision damaged with salvage variously by pulling, lifting, parbuckling, lightering or de-watering. On site naval architecture support for salvage operations. Engineered lift design verification for lifts using sheer legs for wreck removal. Insurance company representative at wreck removal operations. Consultancy and/or attendance for more than 60 ship wreck removal or salvage operations back to 2002 including:

- 2021 Wreck removal of burnt out fishing vessel TAMANGO from northern Norway;



- 2020 Recovery of a floating jacket from the Bombay High Field after the HLV crane boom collapsed over the jacket during the lift;
- 2019 PINAR DEL RIO wave piercing aluminium ferry;
- 2019 SERVER bulk carrier aft section;
- 2018 FJORDVIK cement carrier;
- 2015 KIRAN capesize bulk carrier;
- 2014 AMT EXPLORER cable laying barge;
- 2013 RENA containership
- 2012 JOLLY AMARANTO cargo roro.

Loss or damage of project cargoes during loadout, after being dropped from cranes or derricks or shifting during sea transport.

Numerous container loss investigations both as on-site surveyor and undertaking desk studies.

Survey and investigation of flooding incidents from various alleged causes including collision, ice damage, corrosion, weld cracking, heavy weather damage and erroneous ballasting. Various investigations (including stability and flooding analysis) into causation of vessel foundering e.g. container ship that capsized following a minor collision; explosion and foundering of small bulk carrier; progressive flooding and foundering of a containership following an engine room fire; barge capsizes; floating docks which foundered whilst under tow or during operation in Russia, Greece, Canada and Denmark; car carrier incidents including HOEGH OSAKA, MODERN EXPRESS and GOLDEN RAY.

### **Saipem U.K. Limited, London**

April 1997 – May 1999

Central Engineering Department Manager

Responsible for the day to day management of installation engineering personnel and resources. Perform review and approval of drawings, installation procedures and engineering documents from various SUKL Projects including the S7000 J-Lay Conversation, Oseberg Sor, Oseberg Gass, Sable Island and Eldfisk.

Responsibilities include:-

- Maintaining in-house knowledge and data on Company owned vessels and equipment;
- Providing technical advice to Projects regarding operational procedures and Company owned equipment;



- Reviewing all Project produced engineering, procedures and drawings to ensure a consistent Saipem design solution and operational methodology.

Installation engineer for Norsk Hydro Troll C Development Riser Support Structure, performing yard preparations for offshore installation operations.

Engineering Manager for the installation engineering performed by SUKL for the S7000 J-Lay conversion Project. Review and preparation of engineering and operational procedure documents for J-Lay equipment installation. Attended the shipyard and assisted vessel during the first trial fit of the 3500t J-Lay Tower.

Esso Odin Platform Removal Project installation engineer. Developing pile soil plug removal tools and attending prototype tool testing and offshore operations on S7000 for Odin Jacket pile dredging and cutting and jacket brace removal.

Developed conceptual procedures for Shell SALM Buoy dismantling tender and BP Neptune deep water manifold installation proposal.

#### **Noble Denton Europe Ltd, London Office**

August 1990 – April 1997

Manager, Fixed Structures Department, March 1994 – April 1997

Senior Principal Engineer, from January 1996

Principal Engineer, August 1990 – January 1996

Responsible for the management of department personnel and resources. Assisted the Deputy Managing Director in determining the department £1M annual budget. The department conducted marine surveys, engineering and marine procedure reviews and consultancy for the loadout, transportation and installation of offshore structures, PAU's for onshore plant and other project cargoes. Responsible for the preparation of proposals, client liaison, technical supervision of junior personnel, project progress and reporting, technical and financial decisions, completion to budget and final invoice preparation. Reviewed engineering analysis, design and operational procedures, supervised the performance of analysis, prepared technical reports and performed surveys onshore and offshore world-wide.

Member of Noble Denton Technical Policy Board (setting technical standards and guidelines for the Group).

NDE Deputy Quality Manager (part time 1991 to 1994).



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Attended as Warranty Surveyor and approved the following operations:-

- Lifted, trailered and skidded loadouts and sailaways (on barges or ships) of jackets, topsides modules, integrated decks, subsea modules, onshore refinery pressure vessels and PAU's;
- Offshore installation, removal and re-installation, and removal and disposal, of jackets, topsides and subsea structures;
- Launch, offshore trimming and hand over to tow spreads of Gannet (1990) and Cyprus Pipeline Bundles and Liverpool Bay FSU hose. Wet tow and offshore installation of Amerada Hess Scott/Telford rigid rider caisson.

Surveyed and reported on the structural condition of a VLCC for PetroVietnam to determine its suitability for conversion to an FPSO by SBM for the Rang Dong field.

Independent marine consultant for the appraisal of the installation engineering for the Trafalgar John Brown/Saipem Alliance proposals for the Shell Shearwater design competition.

Marine consultant acting for Technip for the assessment of the installation engineering for the COB P1 Integrated Deck float-over.

Performed study to determine the removal costs for the BP Magnus and Ninian North, South and Central Platforms.

Performed surveys of ships, barges, tugs, DSV's and marine safety audits of the Snorre TLP and a drill ship (operating in Vietnamese Waters).

NDE Project Manager for:- Curlew FPSO module loadouts, Genesis Spar Platform transportation; Wintershall U.K. Windermere Platform; Bonny Terminal Sea Island and Pipeline; Esso Odin Platform removal; BP Andrew and Cyrus Development; Amerada Hess South Scott Manifold; Unocal Q1; Wintershall Noordzee K13 to Den Helder Pipeline Q1 Side-Tap Installation; Technip COB P1; Mobil St Fergus SAGE Development.

NDE Project Engineer for:- Total Dunbar; Wintershall L8-P; Texaco Strathspey; Maersk Tyra; Skjold, Dan and Kraka Platforms; Gryphon; Arco Pickerill; Shell Gannet Topsides and Pipeline Bundle; Mobil Coryton Refinery.

NDE Assistance Project Engineer for:- Mossel Bay; Amerada Hess Scott; Agip Tiffany, BP Amethyst Phase 2; BP Bruce, Conoco Viking B LQ Module. NDE Project Manager or Engineer on numerous project cargo shipping projects.



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### **Lloyd's Register of Shipping**

Sept. 1987 – July 1990

Ship Surveyor, Technical Planning and Development London, July 1989 – July 1990

Drafted Rule changes and documented finite element analysis and other direct calculation techniques for the appraisal of different tanker structural configurations.

Performed analysis for the long-term prediction of wave induced ship response to assess longitudinal strength of ship exposed to extreme sea states.

Drafted Lloyd's Register first copy of Provisional Rules for the Construction and Installation of Fish Farms.

Ship Surveyor under Training Dublin, London and Newcastle

Sept. 1987 – July 1989

Ship surveying of various vessel types including bulk carriers, tankers, RFA's, small ferries, a trenching barge and a sail training ship during repair in dry-dock or whilst in service.

Performed hull construction surveys of an RFA tanker and outfit surveys of a cable laying ship under construction at Swan Hunter Shipbuilders.

Work in London Headquarters comprised experience in all departments within LR's Ship Division including design appraisal of ship structures, passive and active fire protection, application of MARPOL regulations, ship stability and load line assessment and appraisal of ship specifications.

Author of paper 'Voyage Management with Particular Reference to Weather Routing' presented at NAV '88-WEMT '88 Symposium in Trieste, October 1988.

### University of Newcastle upon Tyne

October 1984 – July 1987

Undergraduate Naval Architecture and Shipbuilding degree.

**Merchant Navy** Sept. 1974 – Oct. 1984

### **P&O Group/P&O Bulk Shipping Ltd and Fyffes Group Ltd**

Deck officer on VLCC and products tankers, bulk and Oil/Bulk/Ore carriers, general cargo, container, reefer and passenger ships. Experience of all tanker and general cargo operations.