



Marine, Scientific and Technical
Consultants and Surveyors



DAVID FRANK BURBRIDGE

**Consultant
(Marine Engineer)**

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Dave Burbridge is a very experienced marine engineer with an HNC in Mechanical Engineering. He joined Brookes Bell in March 2003, was a Partner from 2006 to 2010, and is now a Consultant.

He has over 25 years' experience as a Marine Engineer Surveyor principally in the field of hull machinery surveys. Extensive experience has been gained attending and investigating many major casualties including fire and explosions, groundings and salvage, collisions, losses due to sinking, hull structure failures and serious machinery failures.

Prior to joining Brookes Bell, Dave worked in the shiprepair and engineering industry, engaged in both technical and managerial operation. He gained experience in shiprepair facilities in the United Kingdom, Bahrain and Dubai. His time in the shiprepair and engineering industry and intensive involvement in major casualties have provided him with a wealth of experience in damage assessment, repair specification preparation, repair methods and procedures and repair cost analysis.

Investigation into cause of casualties and failures has also been an important part of his time as a surveyor. This has encompassed investigation into main and auxiliary engine failures, boiler explosion and burn-outs, steering gear breakdown, propeller shaft bearing failures, hull structure failures and speed and angle of blow studies following collision. He has prepared technical reports for litigation.

During his time as a surveyor Dave has worked on many ship types, including passenger cruise liners, mega-yachts, tankers, gas carriers, general cargo ships, bulk carriers, OBOs, Container and Ro-Ro vessels, offshore supply vessels/tugs, drill rigs and drill ships, fishing vessels and barges. He also has experience in the offshore industry, including large energy claims such as damage assessment and repair cost analysis of offshore drill ships and on-shore oilfield production facilities.

His work has also included surveys in connection with insurance risk assessment and limitation. This has included many towage approval inspections of vessels (sound and damaged) and loaded barges; heavy lift loading and stowage, voyage approval surveys, condition surveys, on-hire/off-hire surveys, mooring approval, lay-up and re-activation surveys and shipyard/engineering facility inspections for liability underwriters.

Dave has given expert evidence in London arbitration.

Professional and Academic Qualifications

OND in Marine Engineering.

Endorsements to OND in Marine Engineering.

HNC in Mechanical Engineering.

Professional Status and Membership of Professional Bodies

I.Eng.	Incorporated Engineer (Engineering Council).
M.I.Mar.EST	Member. Institute of Marine Eng., Science & Technology.
M.C.M.S.	Member. Society of Consulting Marine Engineers & Ship Surveyors.

Surveying and Consultancy Employment

2010 onwards	Consultant, Brookes Bell.
2006-2010	Partner, Brookes Bell.
2003-2006	Associate, Brookes Bell.
2000-2003	Established own independent marine consultancy with associates providing survey and technical advice to the marine industry.
1981-2000	The Salvage Association, London - Engineer Staff surveyor in Genoa and eventually Surveyor-in-Charge in Marseille, Southampton and London. Investigation into major casualties for underwriters and solicitors - including collisions, groundings, fires, sinking and machinery breakdowns. Pre-risk inspections and vessel condition surveys for underwriters P&I Clubs. Speed and Angle of Blow studies for solicitors. Expert Witness and Witness of Fact.

Sea-Going Employment

1962-1967 Shell Tankers (UK) Ltd. - seagoing engineer on steam and diesel-powered tankers, up to the rank of Junior Engineer.

Shipyard and Marine Engineering Employment

1972-1981 The Bahrain Shiprepair & Engineering Company (BASREC) - Appointed as Personnel Assistant to the General Manager. Involved in all aspects of shipyard operation and management. Principally involved in major repair contract pricing and control.

Technical Engineering and Marine Services - TEAMS (Dubai) - Transferred to Dubai as Manager to set up and establish new repair facility (wholly owned subsidiary of BASREC). Responsible for all repair engineering and managerial control.

1967-1972 Cammell Laird (Shiprepairers) Ltd., Birkenhead - Initially engaged as Technical Assistant to the Ship Managers department. Promoted to Ship Manager in 1969, responsible for the co-ordination of repairs to all classes of vessel including oil tankers, bulk carriers, general cargo, passenger cruise vessels, dredgers and naval vessels. During this time, engaged on several major repair contracts.

Particular Surveying and Consultancy Experience

Hull and machinery surveys including:-

Collision damage including Speed and Angle of Blow studies.

Engine room flooding and fire investigation.

Grounding damage assessment.

Preparation of repair specification for tender purposes.

Damage repair method, supervision and cost analysis.

Main engine failures investigation.

Hull structure inspection and failure investigation.

Stern tube bearing failures.

Rudder/steering failures.

Main and auxiliary boiler inspections and failure investigations.

Salvage.

Damage assessment and repair cost analysis of drill ships

Damage assessment and repair cost analysis of on-shore production facilities.

Other:-

Investigation into oil rig loss during towage.

Towage approval.

Auxiliary engine crankshaft failures.

LNG carrier, cargo tank failures and repair.

Condition surveys.

Unsafe berth disputes.

New building disputes.

Types of main and auxiliary engine surveys:-

B&W - MAN. B&W Alpha. SULZER. UEC engines. Stork. Doxford.

Pielstick, MWM, Diahatsu, Wartsila, Yanmar, MTU, Deutz, CAT, Ruston Paxman, G.M.

KAMEWA, Babcock & Wilcox, Foster Wheeler, Brotherhood, Aalborg, ABB.

Barkemeyer (rudders).