



Robert D. Bowie

Professional Experience:

2000 - Present

Associate Consultant for MARTIN, OTTAWAY, VAN HEMMEN & DOLAN, INC., a full range marine consulting firm with offices in Red Bank, New Jersey, New Orleans, Louisiana, and Rotterdam, Netherlands.

1991 - 2000

AMERICAN BUREAU OF SHIPPING, Americas Houston with following responsibilities as detailed below:

1997 - 2000

Manager, Offshore Technology and Business Development

Market ABS Offshore services and assist with ABS Offshore Technology Development. Visit clients, attend trade shows and make presentations at various seminars. Attend ISO, IACS, and other Offshore Industry meetings on behalf of ABS. Project Manager for Rowan Gorilla V Jack-up building at Le Tourneau Shipyard, Vicksburg, Mississippi. Project Manager Cantarell Offshore Project in Mexico.

1993 - 1997

Chief Engineer, Offshore Engineering Department

Advise staff and clients regarding ABS, IMO, UK HSE, USCG and NMD requirements for MODUs and FPFs. Represent ABS at IACS, UK HSE, USCG, etc. Coordinate cost estimates and Rule development for MODUs and FPSOs. Marketing visits to clients. Project Manager for Enserch Garden Banks FPF, ORXY SPAR FPF and all ABS new buildings and major modifications of MODUs.

1991 - 1993

Chief MODU Section, Offshore Engineering Department

Manage MODU Structures and Stability Sections. Advise staff and clients regarding ABS,



IMO, UK HSE, USCG and NMD requirements for MODUs. Coordinate cost estimates and Rule development for MODUs. Represent ABS at IACS, UK HSE, USCG, technical seminars and trade shows on offshore. Project Manager for Santa Fe Galaxy I and II Jack-up Units Built in Singapore.

1988 - 1991

AMERICAN BUREAU OF SHIPPING, Paramus, New Jersey

Assistant Chief Engineer, Offshore Engineering Division

Responsible for 12 structural engineers and naval architects reviewing MODUs for ABS Class, IMO, USCG, UK HSE, NMD and CCG certification. Advise staff and clients regarding ABS Class, IMO, USCG, UK HSE, NMD and CCG requirements. Carry out and coordinate cost estimates for future contracts. Represent ABS at IACS, UK HSE, technical seminars etc.

1980 - 1988

AMERICAN BUREAU OF SHIPPING, New York/New Jersey

Principal Surveyor, Offshore Engineering Division

Supervise review of structural design drawings, design calculations and stress analyses of MODUs for ABS class and certification by various administrations. Visit and meet with clients regarding ABS Class of all types of MODUs such as jack-ups, semi-submersibles, arctic caissons (steel and concrete), drill ships and barges. Represent ABS at USCG, UK HSE, API, and trade shows. Assist in the investigation of the sinking of the "OCEAN RANGER". Field surveyor in Texas Shipyard to deliver jack-up drilling unit.

1978 - 1980

AMERICAN BUREAU OF SHIPPING, New York

Senior Surveyor, Technical Division

Supervise engineers reviewing structural design drawings, design calculations and stress analyses of MODUs for ABS Class and certification by various administrations.

1977 - 1978



AMERICAN BUREAU OF SHIPPING, Buenos Aires

Senior Surveyor, Technical Division

Opened new technical office. Review of structural design drawings of tankers, bulk carriers, tugs, yachts etc building in Argentina. Meet with clients regarding ABS Classed ships. Field surveys of ABS Classed ships.

1973 - 1978

AMERICAN BUREAU OF SHIPPING, Rio de Janeiro

Senior Surveyor, Technical Division

In charge of technical office in Rio de Janeiro. Review of hull structural design drawings for ABS Classed ships building in South America (i.e. tankers, bulk carriers, cargo vessels and tugs). Meet with clients regarding ABS Classed ships.

1969 - 1973

AMERICAN BUREAU OF SHIPPING, London

Senior Surveyor, Technical Division

Review of hull structural design drawings of ABS Classed ships building in Western Europe.

1966 - 1969

AMERICAN BUREAU OF SHIPPING, London

Surveyor, Technical Division

Review of hull structural design drawings of ABS Classed ships building in Western Europe.

1964 - 1966

YARROW SHIPYARD, Glasgow, Scotland

Naval Architect

Design of naval vessels and stern trawlers.

1960 - 1964

JOHN BROWN SHIPYARD, Clydebank, Scotland

Naval Architect

Ship design office and towing tank. Design of passenger and cargo vessels.

Notable Projects

ABS Project Manager for large MODUs and Floating Production New Building and conversion projects

Assisted in the investigation of the sinking of semi-submersible "Ocean Ranger"

As member of a NOSAC Work Group, assisted in writing USCG "Ocean Tow Requirements of Jack-up Drilling Units"

Member of UK HSE Work Groups on Safety of Jack-up Afloat

Chairman IACS AHG/DU 1997-2000

Technical Secretary SNAME OC-7 Panel

Member ISO/TC67/SC7/WG7 Site Specific Criteria for Jack-up Units

Technical Representative for ABS in a number of legal cases

Education and Professional Qualifications

Royal College of Science and Technology, Glasgow. HNS with endorsements, Naval Architecture - 1961

ABS Management Seminar - 1984

ABS Management Training Course, Bergen County College - 1990

Video Course on Presentation Skills, BK&A CA - 1991

Internal Auditor Course, 1993

Effective Meeting Workshop - 1993

Technical Publications

R.D. Bowie "Classification Experience with FPSOs", MMS 1999 Information Transfer Meeting, New Orleans, LA 1999

D. Stock, P. Geiger Jr., P. Chakrabarti, R.D. Bowie "Calculation Methodology - A Comparative Implementation of SNAME Site Specific Assessment of Jack-up Units", London City University, 1999

Bowie, R.D. "The Extension of Practical International Experiences to the Safety of FPSOs for the Gulf of Mexico", FPSO Tech '98, Houston, TX

Bowie, R.D. "IMO/IACS Design and Survey Requirements", E&P Forum FPSO/FSU Workshop, London, England, 1998

J. Stiff, R.D. Bowie, B.P.M. Sharples "Jack-up Classification Past Present and Future", London City University, 1997

Bowie, R.D. and Richardson, K.L. "Classification and Certification Requirements for Floating Production Systems", OTC 1995

Bowie, R.D., Tan, P.L. and Corcoran, G.C. "Converting Semisubmersible Drilling Units to Floating Production" IADC/SPE 1994

Bowie, R.D. and Breuer, J.A. "Wind Load Regulations in the Context of MODU Stability" USCG Vessel Stability, Symposium 1993

Bowie, Robert D. "Mobile Offshore Drilling Units - Plan Review and Classification", SNAME Spring Meeting (STAR) Symposium 1984

Memberships

Registered Chartered Engineer UK (C.Eng.)

Fellow RINA

Member SNAME



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