



# **CAPABILITY PRESENTATION**

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## **Skills Summary**

- 33 years of marina experience as a consultant, designer, developer, investor, and manager across 41 countries.
- 17 years of experience in dredging, marine civil engineering, harbour works & vessel operations.
- Experienced in the practicalities of waterfront development & regeneration.
- Expert in the design and marketing of superyacht facilities and events.
- Has worked as a contractor, manager, and marina investor.
- Has a reputation for giving very clear and concise advice.
- Experienced and cost effective in the role of client's representative and/or lead consultant.
- Experienced in claims preparation and arbitration.
- Author of the Marina



## **Education & Employment Summary**

- Educated at Oundle School, and the University of Manchester Institute of Science & Technology. Bachelor of Science degree in civil engineering.
- Chartered Civil Engineer (CEng), and Fellow of the Institution of Civil Engineers (FICE) of Great Britain.
- 1971 1988: Civil engineering and dredging industry. Included 9 years with Royal Bos Kalis Westminster (the world's largest dredging company), and 6 years as Managing Director of Dredgework Services.
- 1988 2004: Managing Director of the marinas division of Camper & Nicholsons (established 1782).
- 2005 2007: Director of Island Global Yachting (a Dubai World company).
- 2008 date: Principal of Arrol Marina Consultancy.



## **This Presentation**

- Marina assignments by country.
- Featured marina projects.
- Urban waterfront regeneration projects.
- Marina buildings.
- Concept designs.
- Yachting & Superyachts.
- Boatyard operations.
- Marina expertise.
- Civil engineering expertise.
- Marina management.

Some of the work featured in this presentation was undertaken by Eng. Arrol prior to the formation of Arrol Marina Consultancy. Some photos are included for general illustrative purposes only and are library photos, not photos taken by Eng. Arrol.



## Marina assignments by country

- Antigua
- Argentina
- Bangladesh
- Belgium
- Bermuda
- China
- Cyprus
- Dominican Republic
- Egypt
- Finland
- France
- Germany
- Gibraltar
- Greece

- Grenada
- India
- Indonesia
- Ireland
- Italy
- Kuwait
- Lebanon
- Malta
- Mauritius
- Montenegro
- Oman
- Philippines
- Portugal
- Qatar

- Russia
- Sardinia
- Saudi Arabia
- Singapore
- Sri Lanka
- St Lucia
- Trinidad & Tobago
- Turkey
- Thailand
- United Arab Emirates
- United Kingdom
- Uruguay
- USA



## **Featured marina projects**

- Marina management contracts.
- Dubai Festival City.
- Palm Jumeirah, Dubai.
- VIP Berths, Dubai Creek.
- Bander Al Rowdha, Oman.
- Deira Island, Dubai.
- St Peter's Basin, UK.
- Grand Harbour Marina, Malta.
- Gosport Marina, UK.
- Port Louis, Grenada.
- Port Takola, Thailand.
- Port City Colombo, Sri Lanka
- Gateway of India, Mumbai

- Port Gocek, Turkey.
- · Pafos, Cyprus.
- St Petersburg River Yacht Club, Russia.
- The Wave Muscat.
- The Pearl Qatar.
- · Loano Marina, Italy.
- Sestri Levante, Italy.
- St Petersburg Yacht Club, Russia.
- The Camper & Nicholsons portfolio, UK
- Mauritius Marinas Study.
- Royal Yachts, Oman.



#### **Marina management contracts**



Bangor - UK



Dubai Festival City - UAE



Port Gocek - Turkey



Lagos - Portugal



Bander Al Rowdha - Oman



Grand Harbour Marina - Malta

During the period 1988 – 2007.





Kilrush Creek - Ireland

## **Dubai Festival City**



2004 – 2007: Concept & detailed design, tendering, and delivery, followed by management under contract.



## Palm Jumeirah, Dubai





2005 – 2007: Concept design, technical studies (e.g. finite element analysis of deep water moorings), design development, financial projections, market analyses, and procurement.



#### **VIP Berths Dubai Creek**



2006 – 2007: Concept design and design development, procurement, and installation.



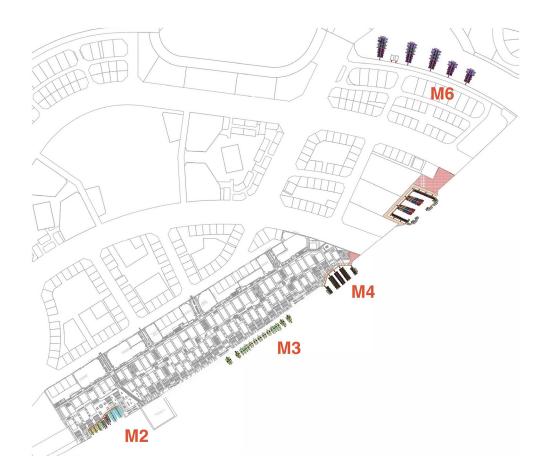
#### Marina Bander Al Rowdha - Oman



2005 – 2007: Management under contract. Produced re-development and expansion masterplan.



### **Deira Island - Dubai**

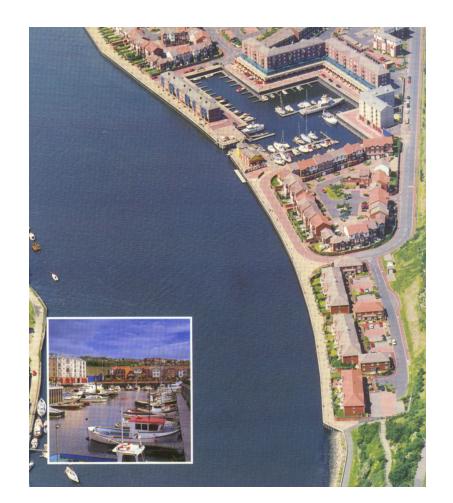




2018 – 2019: 4 Marinas comprising more than 300 pontoons and 30 gangways built and installed in 8 months.



#### **St. Peter's Basin - UK**



1999 – 2001: Marina consultant & commissioning manager.



### **Grand Harbour Marina - Malta**



The marina was opened in 2005 by Her Majesty Queen Elizabeth II





1999 – 2006: Promoter, major shareholder/investor, lead designer, and managing director; international marketing; technical studies. Achieved Bureau Veritas classification on superyacht moorings. Company taken to an IPO in 2006.



## **Gosport Marina - UK**



1994 – 2001: Modernised and doubled the size of one of the UK's oldest marinas. Lease negotiation with the Crown, planning & consents, sale of apartment site to a developer, all marina & civil engineering specifications, construction management, commissioning & operations management.



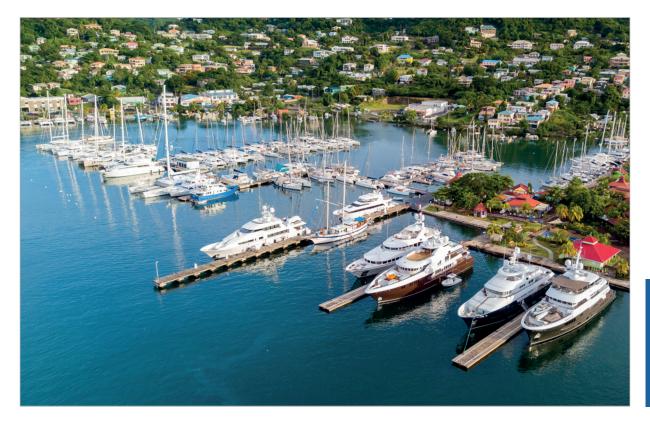
## **Port Louis - Grenada**



2002 – 2006: Project initially known as Port George. Contract negotiator & concept designer. Led EIA and hurricane study. Later became an investor.



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#### **Port Takola - Thailand**





2009 - 2016: Marina development and operations consultant for 55HA Marina and mixed use project near Krabi.



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2009 - 2016: Marina development and operations consultant for 55HA Marina and mixed use project near Krabi.



## **Port Gocek - Turkey**

"The most beautiful marina in the eastern Mediterranean".



1999 – 2004: Part-design, commissioning, and marina management under contract.



### **Pafos Marina - Cyprus**



2004 – 2009: Marina consultant to a consortium during their successful tender bid.



#### **St Petersburg River Yacht Club - Russia**







2009 – date: Marina, marine works, and operations consultant. Design includes a sailing academy, automated dry-stack boat storage, and boatyard.



#### **The Wave Muscat**



2005: Marina design review consultant.

## **The Pearl Qatar**



2005: Marina design review consultant.



## **Loano Marina - Italy**



1994: Financial appraisal.

## Sestri Levante - Italy



1994: Concepts for a marina.



#### **St Petersburg Yacht Club - Russia**



Marina redevelopment consultant to UK architects for client GAZPROM



#### **The Camper & Nicholsons portfolio.**



Neyland



Penarth



Gosport



Amble

1988 – 1992: Portfolio Managing Director.



## **Mauritius Marina Development Study**





2012: Detailed study of the coastline of Mauritius and preparation of a report on the development of marinas, yachting, and waterfront real estate.



## **Royal Yachts - Oman**





2014: Manufacture and installation of 5m wide pontoons for His Majesty the Ruler of the Sultanate of Oman.



## **Port City Columbo - Sri Lanka**





2020-2021: Detailed project report covering marina and marina real estate, boatyard and management options. A 270HA project.



#### **Gateway of India - Mubai**



2019: Embarkation jetty for yachtsmen and customers of the harbour's floating restaurants.



## **Urban waterfront regeneration projects**

#### **Featured examples:**

- Cottonera Waterfront, Malta.
- Prince's & Victoria Docks, India.
- Penarth Marina, Wales.
- St Petersburg River Yacht Club, Russia.
- Puerto Madero, Argentina.
- St. George Marina, Lebanon



### **Cottonera Waterfront - Malta**





#### **Prince's & Victoria Docks - India**



2007 – 2012: This mixed-use urban waterfront re-generation project in Mumbai was conceived by ARROL on behalf of a heritage organisation wishing to save the docks from destruction.



#### **Penarth Marina - Wales**





#### **St Petersburg River Yacht Club - Russia.**





2009 – 2012: The site of the old St Petersburg Imperial Yacht Club, this facility is due for total regeneration. Acted as consultant for the marina and yachting facilities design studies.



### **Puerto Madero – Argentina**





1996 – 1998: Located in the centre of Buenos Aires, Puerto Madero has been at the centre of a mega urban regeneration project.

Designed and tendered the marina installation. Contributed to the design of the floating yacht club.



### **St. George Marina – Lebanon**

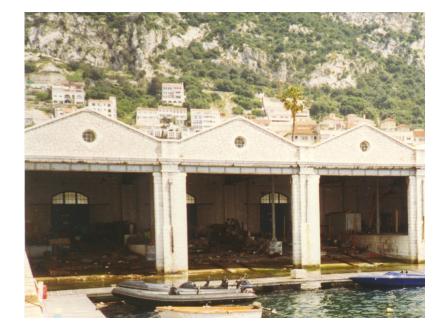


2002 - 2004: Preliminary designs for the marina and yacht club. Review of breakwater over-topping criteria with a view to reducing crest height.



# **Other regeneration projects**

- Morgan's Point, Bermuda.
- St Peter's Basin, Newcastle-upon-Tyne, England.
- Royal Clarence Yard, Portsmouth Harbour, England.
- Albert Dock, Liverpool, England.
- Portishead Dock, England.
- Conwy, Wales.
- Exmouth Dock, England.
- Burry Port, Wales.
- Gun Wharf, Gibraltar.





# **Marina buildings**

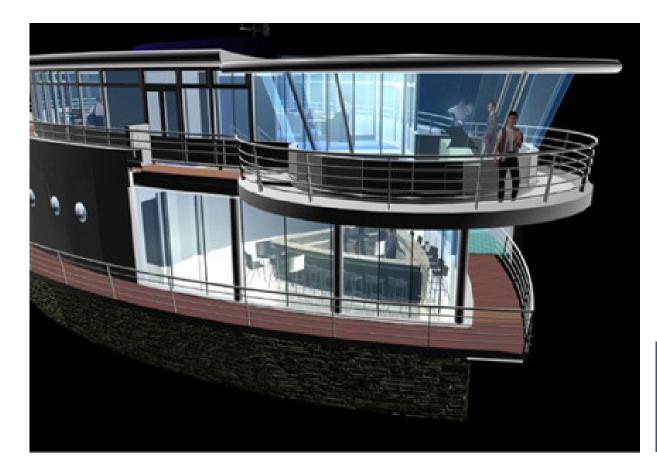
The word "Capitainerie" comes from the French language and is widely used to refer to the 24/7 administrative and control centre of the marina, often incorporating a yacht club. This is the key marina building.

Whether for facilities ashore or afloat, ARROL has skills for combining an appreciation of operational functions and needs with appropriate design.

For each of the following buildings, the concept design and the specification was by ARROL.



# **Gosport Marina - UK**



2001 – 2002: RIBA competition award winning design. Prepared competition criteria & adjudicated 120 entries.



### Palm Jumeirah, Dubai



2006: Concept design and design development to enable architect to prepare renderings.



# **Gocek - Turkey**



2008: Capitainerie and yacht club with restaurant. Concept design translated to sketches by architect.



#### **Grand Harbour Marina - Malta**



2002 – 2004: This building, the Treasury, dates from 1542. Identified the potential, leased the building, and concept designed the renovation.



#### **St Petersburg River Yacht Club - Russia**



2009: Working with architects to define the marina's needs and integrate them with the iconic hotel and public waterfront.



# **Concept Designs**

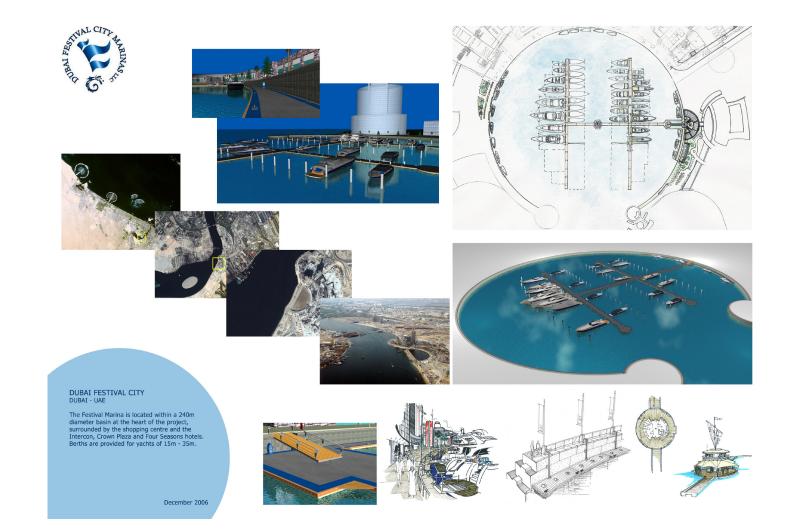
#### **Examples from:**

- Dubai Festival City.
- Palm Jumeirah, Dubai.
- Bander Al Rowdha, Oman.
- Marina village, Oman.
- Marina village, Middle East.
- Port George, Grenada.
- Project "X", Kuwait
- Watson Island, Miami.
- Port Chiberta, France.

In each case the principle marina elements were conceived by ARROL.

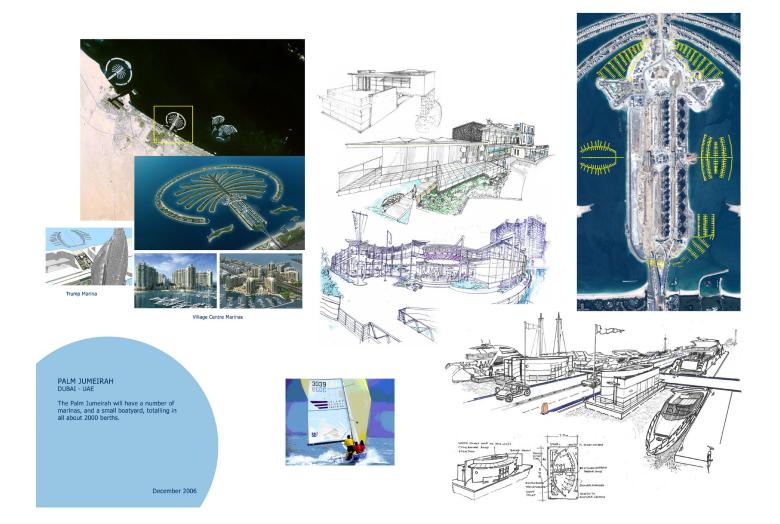


## **Dubai Festival City**



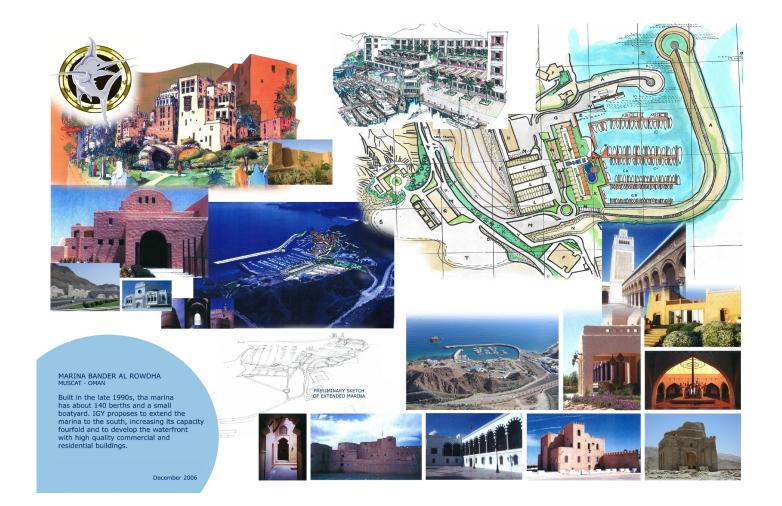


# Palm Jumeirah, Dubai





#### **Bander Al Rowdha - Oman**





### Marina village - Oman





# Marina village Middle East





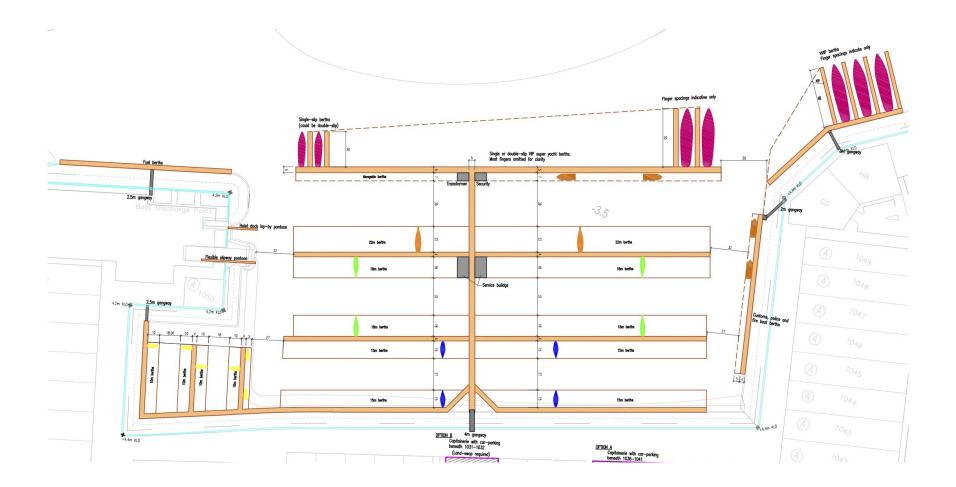


### **Port George - Grenada**





# **Project "X" - Kuwait**





#### **Watson Island - Miami**





### **Port Chiberta - France**





# **Yachting & Superyachts**

Yachting and other maritime events have a major impact upon the success of a marina and waterfront project. An animated harbour adds value to the real estate.

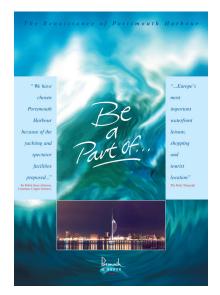
#### Case study:

In the late 1990s ARROL was co-founder and director of Portsmouth Harbour Events Co Ltd, a public/private sector, not-for-profit company which sought to raise the social and economic profile of the harbour.

Within just a couple of years the company was instrumental in bringing a large number of well-known events to the harbour, including:

- Tall Ships Race 2002 (finish).
- Times Clipper Round the World Race 2001 (finish).
- BT Global Challenge (finish).
- RORC IR 2000 championship.
- International Festival of the Sea 2001.
- Mini-Transat qualifier 2001.

Many leading yachting organisations have since made the harbour their home port, the most notable being the HQ for the British challenger for the 2015 and 2021 series of the America's Cup.











A yacht club, with its numerous sailing and social activities, animates and adds value to the whole waterfront and the waterspace. (Above images are for general illustration purposes only.)



#### Case study:

Superyacht berths and events differentiate a project and add value. ARROL incorporated superyacht berths in both these projects.



CRAND HARBOUR MARINA \* MALTA







### **Boatyard operations**



Experience of yacht yard design and operations.



Experience of ship repair on slipways, dry-docks, & floating dry-docks, in Nigeria and the UK.



# **Marina expertise**

- Site appraisal.
- · Imaginative concept design & master-planning.
- Wet-berthing & moorings.
- Dry-berthing.
- Yacht yard & other support facilities.
- Contract documents & construction supervision.
- Operations management & administration.
- Specialist legal documentation.

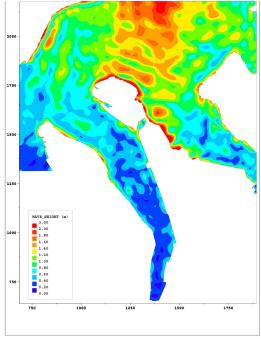


Figure 4 Predicted significant wave heights - 50 year return period, H<sub>s</sub>=5.4m, Dir=48°N, T<sub>p</sub>=13.0s

Experienced at collaborating with architects, engineers, regeneration agencies, property developers, planners & lawyers.



- · Managed third-party marinas in 5 countries.
- Been a promoter and an investor.
- · Commissioned and marketed new marinas.
- Undertaken assignments in 41 countries.
- Familiar with the super-yacht sector.
- Yachting events & clubs.
- International marketing & berth sales.
- Director of two of the world's leading marina businesses.



#### 

The ownership of the above logos is acknowledged



# **Civil engineering expertise**

#### 17 years experience in the fields of:

- Dredging & land reclamation.
- Environmental criteria & impact assessment.
- Urban waterfront engineering.
- Quays, jetties, & ship moorings.
- Pipeline crossings & outfalls.
- Beaches, breakwaters & seawalls.
- Locks & other water control devices.
- Tenders, conditions of contract, & legal issues.
- Ship ownership & operations.
- Operation of support craft & fast boats.







- Marine civil engineering with both dry plant and floating plant; working with multi-national workforces.
- Quay walls, breakwaters, revetments and jetties; marine piling; land and marine site investigation.
- Pipeline trenching, pipe-pulling, & trench backfilling.
- Dredging, land reclamation & beach replenishment; environmental clean-up.



The ownership of the above logo is acknowledged







- Construction project and cargo logistics.
- Crew boats and passenger ferries.







- Environmental clean-up; rock blasting and rock placing; hydrographic surveying; diver support and crane barge operations; marine mineral recovery.
- Sector-gate and mitre-gate locks, and tidal flap-gates.
- Operation of many types of dredger, crane barges, hopper barges, tugs and high speed passenger craft.
- Estimating, preparation of contract documents, tendering, measurement, and claims management; alternative dispute resolution and arbitrations.









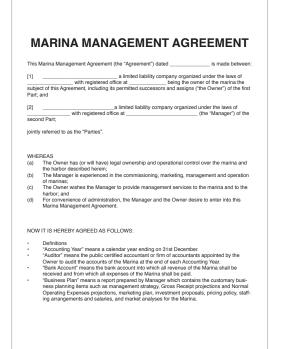




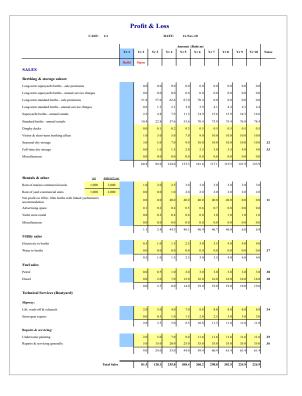
### **Marina management**

ARROL has extensive international marina management experience. As well as being the author of The Marina Manual, he is the author of a widely used Marina Management Agreement.

#### **Marina Management Agreement**



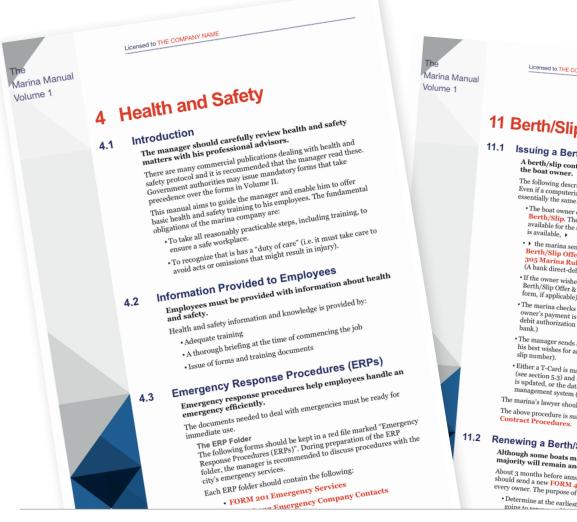
#### The Marina Manual







A two-volume A –Z of marina administration & operations.







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Grand Harbour Marina - Malta

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