

THE ROYAL INSTITUTION OF NAVAL ARCHITECTS

41/2 Day Programme

BASIC DRY DOCK TRAINING COURSE

18th -22nd August 2008

Tenix Shipyard, Melbourne, Australia.

By Mr Jack Brown

Benefits of Attending

This four-and-a-half day course covers the fundamentals and calculations of dry docking. The course begins with the basics and safety concerns, and progresses through all phases of dry docking: preparation, docking, lay period, undocking. and ends with a discussion of Accidents and Incidents.

It's designed to be relevant to Dock Masters, Docking Officers, Engineers, Naval Architects, Port Engineers and others involved in the dry docking of ships and vessels. The course is presented through classroom lectures, student participation in projects and practical application exercises. The course addresses the deck plate level of practical operation needed by the dock operator and the universally accepted mathematical calculations required to carry out operations in accordance with established sound engineering practices.

TOPICS TO BE COVERED INCLUDE:

- Basic dry docking community terminology
- · Calculations
- Safe dry docking procedures
- · Lay period
- · Undocking evolutions
- · Docking Plans
- · Docking and undocking conferences
- · Hull boards
- · Vessel stability
- · Incidents/accidents

PROGRAMME

Introduction
Math Review
Ship Stability
Symbols, Abbreviations, Definitions

Chapter 1 - Organization of Information

- A. Gathering pertinent information
- B. Important dry dock references
- C. Limitations

Chapter 2 - Preparing the Drydock

- A. Determine docking position of the vessel
- B. Determine physical location of basin blocking
- C. Keel block locations
- D. Trapezoidal loading
- E. Draft of instability
- F. Multiple Calculations
- G. Metric to standard calculation sheet
- H. Pumping plan
- I. Quick reference sheet
- J. Seismic/hurricane considerations
- K. Blocking preparations and construction
- L. Soft Caps
- M. Quality assurance

Chapter 3 - Readiness to Drydock

- A. Establishing dock / vessel communication
- B. Physical inspection of the vessel
- C. Listed vessels
- D. Trimmed vessels
- E. A docking checklist

Chapter 4 - Readiness of Personnel, Gear and Services

- A. Systems in support of the docking / undocking operation
- B. Ship support systems

- C. Work force support systems
- D. Emergency systems
- E. Readiness of gear
- F. Readiness of services
- G. Readiness of personnel
- H. Commands to line handlers

Chapter 5 - The Docking Evolution

- A. Preparation for docking
- B. The deflection plane
- C. Critical stages in the docking process
- D. Summarized actions to be taken
- E. Steps for a typical docking procedure
- F. Casualty procedures

Chapter 6 - Lay Period of Ship in Dock

- A. Assigned responsibilities
- B. Areas of great concern
- C. Check list for the preparation of undocking

Chapter 7 - The Undocking Evolution

- A. Weight control accounting
- B. Pre-undocking checks
- C. Final check of the dock basin
- D. Final preparation for undocking
- E. Ballasting and lift off of the ship
- F. Flood to depth for exit
- G. The ship is hauled out of the dock
- H. De-ballast and inspect dock
- I. Dock list control during undocking

Chapter 8 - Special Drydocking Situatuions

- A. Unique situations
- B. Specially designed ships
- C. Unique work in drydock
- D. Multiple ship dockings
- E. Hauling a ship in off-center
- F. Cold weather precautions
- G. Extreme overhangs
- H. Self-docking drydock section

Chapter 9 - Docking Incidents/Accidents

- A. Background
- B. Reporting requirements
- C. Analysis and trends

Chapter 10 - Wrap-Up

- A. Situations Exercise
- B. Exam
- C. Training Wrap-up

ABOUT THE COURSE LEADER

Mr. Brown served in the United States Navy for thirty-seven years, retiring at the grade of Commander. His two duty assignments preceding his retirement were as Commanding Officer of the Navy's Floating Dry Docks STEADFAST (ARDM-14) and SUSTAIN (AFDM-7), respectively. During his tour as Commanding Officer of the SUSTAIN, he had dual responsibility as Commanding Officer of the United States Navy Docking Officer Training Course. Upon his retirement from the Navy through early 2000, he conducted Dock Master training and dry dock consulting through his company ALBRAVCO. He brings to the training arena, a vast and broad-based knowledge of numerous and complex docking situations. Mr. Brown qualified and served as a NAVSEA certified Docking Officer, Ballast Control Officer, and Master Training Specialist.

LIMITED PLACES AVAILABLE

Please note that there are a limited number of places available on this course and any registrations made will be on a first come, first served basis. If you wish to receive details regarding this course or make a provisional advanced booking, please tick the box on the registration form provided.

VENUE

The venue for the training programme will be the Tenix Shipyard, Melbourne, Australia.

CONTINUING PROFESSIONAL DEVELOPMENT (C.P.D)

C.P.D. Certificates of Attendance will be issued at the event, which contribute towards the Institution's requirements for Continuing Professional Development. For further details regarding C.P.D., please contact Giuseppe Gigantesco, Director of Professional Affairs on Tel: 44 (0)20 7235 2407 or via email at: profaffairs@rina.org.uk

CANCELLATION CHARGES

The following charges will be made in the event of a cancellation, AUS\$500 if received before 18th July 2008. Cancellations made anytime after that date will not be refunded. Delegates may be substituted; however this must be sent in writing and confirmed with the Conference Co-ordinator.

If you have any questions regarding this or any other RINA event, please contact Amber Williams; Tel: 44 (0)20 7201 2401, Fax: 44 (0)20 7259 5912 Email: conference@rina.org.uk

REGISTRATION FORM - BASIC DRY DOCK TRAINING COURSE

To register complete ALL sections of the form below and return it to:

RINA, 10 UPPER BELGRAVE STREET, LONDON SW1X 8BQ, UK

By fax on: +44 (0)20 7259 5912 or e-mail: conference@rina.org.uk

	Surname:			
	Position:			
	Company:			
	Address & Postcode:			
	Telephone: Fax:			
	Email:			
J	Please indicate where you heard about this event			
1	Do you wish to be notified about future events			П
	Please indicate if you are a member of RINA			
1	riease indicate if you are a member of Kina			
	REGISTRATION FEE includes a bound training manual	, lunch and	refreshn	nents.
	•	, lunch and	refreshn	nents.
	REGISTRATION FEE includes a bound training manual	, lunch and	refreshn	
	REGISTRATION FEE includes a bound training manual REGISTRATION FEE -	, lunch and	refreshn	TOTAL
ase	REGISTRATION FEE includes a bound training manual REGISTRATION FEE - RINA MEMBERS:		refreshn	TOTAL AUS\$ 1850
ease lease	REGISTRATION FEE includes a bound training manual REGISTRATION FEE - RINA MEMBERS: NON-MEMBERS: indicate your preferred method of payment.	e)		TOTAL AUS\$ 1850 AUS\$ 2050
l ease ease	REGISTRATION FEE includes a bound training manual REGISTRATION FEE - RINA MEMBERS: NON-MEMBERS: indicate your preferred method of payment. e note RINA requires payment before the conference dat	e)		TOTAL AUS\$ 1850 AUS\$ 2050
l ease ease	REGISTRATION FEE includes a bound training manual REGISTRATION FEE - RINA MEMBERS: NON-MEMBERS: indicate your preferred method of payment. e note RINA requires payment before the conference dat I enclose a cheque/Eurocheque for	e) £		TOTAL AUS\$ 1850 AUS\$ 2050
l l	REGISTRATION FEE includes a bound training manual REGISTRATION FEE - RINA MEMBERS: NON-MEMBERS: indicate your preferred method of payment. e note RINA requires payment before the conference dat I enclose a cheque/Eurocheque for Please send me an invoice for	££		TOTAL AUS\$ 1850 AUS\$ 2050
l l	REGISTRATION FEE includes a bound training manual REGISTRATION FEE - RINA MEMBERS: NON-MEMBERS: indicate your preferred method of payment. e note RINA requires payment before the conference dat I enclose a cheque/Eurocheque for Please send me an invoice for I enclose details of my bank transfer for	££		TOTAL AUS\$ 1850 AUS\$ 2050
l l	REGISTRATION FEE includes a bound training manual REGISTRATION FEE - RINA MEMBERS: NON-MEMBERS: indicate your preferred method of payment. e note RINA requires payment before the conference dat I enclose a cheque/Eurocheque for Please send me an invoice for I enclose details of my bank transfer for Please debit my credit card (VISA/AMEX/Mastercard)	££		TOTAL AUS\$ 1850 AUS\$ 2050

Payment can be made by cheque, credit card (VISA/Amex/Mastercard) or bank transfer. Please note RINA requires payment before the conference date. Account Name: The Royal Institution of Naval Architects. Account Number: 10042127. Account Code: 160016. Bank Address: Royal Bank of Scotland PLC, Belgravia Branch, 24 Grosvenor Place, London. SW1X 7HP, UK. IBAN No. GB14RBOS16001610042127. SWIFT No. RBOSGB2L