

Presented by
The Hamworthy Combustion Training
Institute



Incorporating:
PEABODY ENGINEERING
AIROIL - FLAREGAS
CHENTRONICS

Low Sulphur Fuel - Maritime Directives



A Seminar for Engineers
on Vessels operating inshore European Waters

Chairman: The Hamworthy Combustion Institute

Venue: **UK** Poole, Dorset – 21st June 2010
Greece, Athens – 28th September 2010
Singapore - 17th September 2010

Background to the Seminar

The International Convention for the Prevention of Pollution from Ships 1973, MARPOL and EU Directive 2005/33, & subsequent directives and legislation have been issued in the Marine Sector to control emissions of Sulphur. Many operators have a need to understand more deeply the Regulations and particularly their effect and implication on vessels' engineers, combustion equipment, and safety.

Hamworthy Combustion Engineering Ltd are manufacturers of equipment that will be affected by the regulations and therefore provide expertise in this field.

Different manufacturers use different solutions to achieve compliance, typically changing to low Sulphur fuel (LSDO/LSMGO) or flue gas desulphurisation (FGC) of the exhaust. This seminar looks at the available Low Sulphur fuel solutions and the implications of adopting them.

Objectives of the Seminar

This seminar will give an explanation of the legislation and detail of equipment being adopted throughout the industry. The delegates will take away a course book describing the important information. Considerable time will be available for discussion with the Seminar experts and there will be opportunity to compare with other delegates what stage they are at in adopting the regulations.

Intended Audience

Most Marine operators have already selected, designed, or procured the necessary remedial measures. This seminar will help the ships' engineers understand the implications of the new equipment. The favoured solution is to change to LSDO fuel. This fuel has a higher safety risk which needs to be understood by all ships' engineering crew.

Accreditation

This seminar is not part of any class or society accreditation scheme. However, the chairman and the referenced material are part of courses accredited by DNV.

SEMINAR PROGRAMME

8.45 *Registration*

9.00 Introduction – The Legislation

History of the Regulations, Description of Annexe VI and its purpose, authority, policing, effectiveness.

10.00 Increased Hazards Using LSMGO – Safety Implications *For operators to take into account when utilising LSMGO*

Volatility, atomisation, vaporisation, overheating of fuel, viscosity, fuel change over, flammability, auto ignition, flame radiation and convection, thermal cracking, vapour locks, lubricity, purging, flame scanner operation, valve timing, igniter spark verification, manual intervention procedures, gas sampling.

11.00 *Coffee*

11.15 Equipment Required for use of LSMGO

Describe the effect of using LSMGO on existing equipment.

Review of combustion equipment manufacturers alternative ways of dealing with LSMGO.

Examples of Atomisers, Sprayers, Scanners, Igniters, Pumps, Control logic, throughput, turndown.

13.00 *Lunch*

14.00 Procedures - Complying with the Legislation on Board

Keeping Records & Logs, Selection of Fuel, Procedures for change over.

15.00 Models & Drawings

Hands on examination of samples and study of drawings of affected or replacement equipment.

15.45 *Tea*

16.00 Résumé

Testimonials & Statements from delegates, Questions to experts.

17.00 *Close of Seminar*

COURSE BOOKING FORM

**Course Fee per Delegate:
£325.00, S\$650.00, E330.00**

COMPANY DETAILS

Company Name	
Address	
Postcode	
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Contact	

COURSE DETAILS

Please advise which venue you would like to attend, your chosen dates, and the number of spaces you wish to book.

	Number of delegates
Poole, Dorset, UK – 21st June 2010	
Athens, Greece – Metropole Hotel - 28th September 2010	
Singapore – Miramar Hotel, 401 Havelock Road - 17th September 2010	

PAYMENT

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