



## International Code of Safety for ships using gas or other low flash-point fuels (IGF Code)

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## Background

Based on a proposal from Norway, the Maritime Safety Committee (MSC 78, May 2004) approved a new work programme item:

“Development of international regulations for gas-fuelled ships”

The Sub-Committee on Bulk Liquid and Gases commenced the development at its 8<sup>th</sup> session (BLG 8, 2004) and established a correspondence group under the co-ordination of Norway to further progress the work

## Progress

BLG 9 (2005) decided a two step approach:

1. Development of interim guidelines for gas-fuelled ships.
2. Development of a Code of safety for gas-fuelled ships

BLG 13 (2009) agreed to the draft Interim guidelines on safety for natural gas-fuelled engine installations in ships

MSC 86 (2009) approved "Interim guidelines on safety for natural gas-fuelled engine installation in ships".

## IGF Code

BLG 14 (2010) further developed the Draft IGF Code and agreed to ask MSC for an extension of the scope to also cover other gases and low flash-point fuels.

MSC 87 (2010) agreed to the extension of the scope.

BLG 15 (2011) further developed the Draft IGF Code and preliminary agreed to include the following gases and low flash-point fuels:

## Fuels

- BLG 15 (2011) further developed the Draft IGF Code and preliminary agreed to include the following gases and low flash-point fuels:
  - Natural gas liquid and compressed
  - Propane liquid and compressed
  - Butane (i and n) liquid
  - Propane/Butane mixtures liquid
  - Ethyl alcohol liquid
  - Methyl alcohol liquid
  - Hydrogen liquid and compressed
  - Dimethyl-ether liquid

## Content of the Code

The Draft IGF Code is currently planned to address safety measures for the following:

- Material and pipe design
- Power Generation [including propulsion and other energy converters]
- Fuel storage
- Fuel supply to consumers
- Refuelling
- Ship design and arrangement
- Fire safety
- Explosion protection
- Ventilation
- Electrical installations
- Control monitoring and safety systems
- Alternative design
- Manufacture, workmanship and testing
- Operational and training requirements

## Work plan

**2012 BLG 16**

- Established a correspondence group to further develop the draft IGF Code

**2013 BLG 17**

- Establish a working/drafting group to finalize the IGF Code
- Submission of the draft IGF Code to other relevant sub-committees for comments

**2014 BLG 18**

- Establish a drafting group to incorporate comments from other sub-committees and make the necessary editorial and clarification changes
- Submission of the draft IGF Code to the MSC and the MEPC with a view to approval

**2014 MSC 93 and MEPC 66**

- Adoption

## Some challenges

- Location of fuel tanks
- Alignment with the revised IGC-Code
- Level of details
- Limitations regarding EDS protected machinery spaces.
- Structure of the Code

Thank you for the attention

