



BSI Standards Publication

Ships and marine technology — Performance test procedures for LNG fuel gas supply systems (FGSS) for ships

National foreword

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Ships and marine technology — Performance test procedures for LNG fuel gas supply systems (FGSS) for ships

*Navires et technologie maritime — Procédures d'essais de
performance des systèmes d'alimentation en gaz combustible GNL
(FGSS) pour navires*



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ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

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Foreword

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This document was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*.

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Introduction

In response to an increased number of ships using LNG fuel, the International Maritime Organization (IMO) adopted the IGF code that specifies mandatory requirements of the LNG fuel tank, LNG fuel engine, fuel gas supply system (FGSS), bunkering, control of safety system, monitoring, and fire extinguishing systems, etc. to ensure the safety of gas-fuelled ships.

The requirements of the IGF and IGC Codes apply to the design and manufacture of LNG FGSS. However, no widely recognized standards in terms of the performance testing of FGSS has yet been established; thus, FGSS is tested according to a case-by-case agreement between the buyer and the supplier. For this reason, there have been needs to develop a standard for performance test methods of FGSS commonly acceptable to all stakeholders (e.g. shipowners, classification societies, engine makers, shipyards, etc.).

In this context, this document sets up a performance test procedure for the LNG FGSS, which consists of equipment such as pumps, heat exchangers, valves, piping, etc. With this document, it is expected that i) the performance of LNG FGSS be identified from an objective point of view, ii) useful information be provided to all stakeholders, and iii) development of more reliable LNG FGSS be facilitated, thus contributing to the growth of relevant industries and benefiting all stakeholders.

In addition, as specific requirements from classification societies and/or administrations can apply to the LNG FGSS concerned, the buyer is expected to identify those before placing a purchase order. The supplier and the buyer are further expected to agree on any additional applicable requirements.