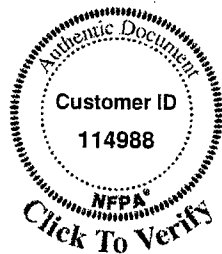


NFPA® 1925

Standard on Marine Fire-Fighting Vessels

2013 Edition



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NFPA® 1925

Standard on

Marine Fire-Fighting Vessels

2013 Edition

This edition of NFPA 1925, *Standard on Marine Fire-Fighting Vessels*, was prepared by the Technical Committee on Marine Fire Fighting Vessels. It was issued by the Standards Council on November 27, 2012, with an effective date of December 17, 2012, and supersedes all previous editions.

This edition of NFPA 1925 was approved as an American National Standard on December 17, 2012.

Origin and Development of NFPA 1925

This standard resulted from a request by the NFPA Fire Service Training Committee stating that there was a need for a document addressing construction, testing, and operation of marine fire-fighting vessels. The Technical Committee on Marine Fire Fighting Vessels was appointed and began work on developing this document in 1991. The committee met many times during the 1990s to draft the first edition of the standard, which was issued by NFPA in the summer of 1998.

The 2004 edition of NFPA 1925 was a complete revision of the document to comply with the NFPA Manual of Style. Many of the changes in the document are editorial in nature and include updating definitions for consistency with the NFPA *Glossary of Terms*. In addition, the Committee eliminated waterline length as a consideration of the designation of class of fire-fighting vessel to focus on vessel functionality; operational requirements were streamlined to eliminate those provisions not essential as design considerations by marine fire-fighting vessel designers; and some existing requirements were reworded to state equipment usage in performance language so the requirement would be applicable to the activity being conducted by the designated class of marine fire-fighting vessel.

For the 2008 edition, the committee completely revised the standard to redesignate the marine fire-fighting vessel classifications and capabilities from three to five categories to be consistent with the NIMS DHS Table for Emergency Support Function (ESF) #4, shown in Chapter 5. With this change, the standard included vessels that had been designated as being equipped with fire-fighting capabilities according to the NIMS DHS Table for ESF #4. This effort provided a consistent methodology for defining the capabilities for marine fire-fighting vessels that support resource sharing in mutual aid applications.

Also for the 2008 edition, the committee reorganized and updated the information in the document to make it consistent with current industry design and specification practices. The committee updated the equipment specification listings for each class of marine fire-fighting vessel.

For the 2013 edition, the committee has completely reorganized Chapter 6, Fire-Fighting System Capabilities, to remove redundant requirements and assist the user with applying the standard. In addition to updating the definition of *fire-fighting vessel*, the committee also added new definitions for *Category A machinery space* and *net positive suction head*. Extinguishing systems, optical warning devices, installation of navigation equipment, and testing of communication and signaling equipment are some of the other requirements that have been updated in this edition of the standard.

Dedication

The Marine Fire Fighting Vessels Committee dedicated the 2004 edition of the standard to the late Timothy Stillman, who was a member of the Committee from its start-up in January 1991 until his death in 2001.

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NOTE: Membership on a committee shall not in and of itself constitute an endorsement of the Association or any document developed by the committee on which the member serves.

Committee Scope: This Committee shall have primary responsibility for documents on the design, construction, performance, and operation of marine vessels for fire fighting and related emergency operations.



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Information on referenced publications can be found in Chapter 2 and Annex C.

Chapter 1 Administration

1.1 Scope.

1.1.1 This standard shall provide minimum requirements for marine fire-fighting vessels.

1.1.2 This standard shall also provide minimum maintenance and testing requirements for marine fire-fighting vessels.

1.2 Purpose.

1.2.1 The purpose of this standard shall be to provide the minimum requirements for the construction of new marine fire-fighting vessels or for the conversion of existing vessels to become marine fire-fighting vessels.

1.2.2 This standard is not intended to serve as a detailed manufacturing or purchase specification, but it shall be permitted to be referenced in purchase specifications as minimum requirements.

1.2.3 This standard is not intended to serve as a staffing document for marine fire-fighting vessels.

1.3 Application. This standard shall apply to both the construction of new vessels and the conversion of existing vessels for fire-fighting purposes.

1.4 Retroactivity. This standard shall not be retroactive unless an existing vessel is undergoing a major conversion to become a marine fire-fighting vessel.

1.5 Equivalency.

1.5.1 Nothing herein shall be construed as reducing relevant government regulations regarding marine fire-fighting vessels.

1.5.2 Nothing in this standard is intended to prevent the use of systems, methods, or devices of equivalent or superior quality, strength, fire resistance, effectiveness, durability, and safety over those prescribed by this standard.

1.5.3 The technical documentation shall be submitted to the authority having jurisdiction to demonstrate equivalency.

1.5.4 The system, method, or device shall be approved for the intended purpose by the authority having jurisdiction.

1.6 Units.

1.6.1 In this standard, values for measurement are followed by an equivalent in SI units, but only the first stated value shall be considered as the requirement.

1.6.2 Equivalent values in parentheses shall not be considered as the requirement as these values might be approximate.

Chapter 2 Referenced Publications

2.1 General. The documents or portions thereof listed in this chapter are referenced within this standard and shall be considered part of the requirements of this document.

2.2 NFPA Publications. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471.

NFPA 10, *Standard for Portable Fire Extinguishers*, 2013 edition.

NFPA 11, *Standard for Low-, Medium-, and High-Expansion Foam*, 2010 edition.

NFPA 12, *Standard on Carbon Dioxide Extinguishing Systems*, 2011 edition.

NFPA 72[®], *National Fire Alarm and Signaling Code*, 2013 edition.

NFPA 302, *Fire Protection Standard for Pleasure and Commercial Motor Craft*, 2010 edition.

NFPA 303, *Fire Protection Standard for Marinas and Boatyards*, 2011 edition.

NFPA 720, *Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment*, 2012 edition.

NFPA 1005, *Standard for Professional Qualifications for Marine Fire Fighting for Land-Based Fire Fighters*, 2007 edition.

NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, 2013 edition.

NFPA 1931, *Standard for Manufacturer's Design of Fire Department Ground Ladders*, 2010 edition.

NFPA 1961, *Standard on Fire Hose*, 2013 edition.

NFPA 1963, *Standard for Fire Hose Connections*, 2009 edition.

NFPA 1964, *Standard for Spray Nozzles*, 2013 edition.

NFPA 1981, *Standard on Open-Circuit Self-Contained Breathing Apparatus (SCBA) for Emergency Services*, 2013 edition.

NFPA 1983, *Standard on Life Safety Rope and Equipment for Emergency Services*, 2012 edition.

NFPA 2001, *Standard on Clean Agent Fire Extinguishing Systems*, 2012 edition.

2.3 Other Publications.

2.3.1 ABS Publications. American Bureau of Shipping, 16855 Northchase Drive, Houston, TX 77060.

ABS Rules for Building and Classing High Speed Craft, 2001.

ABS Rules for Building and Classing Steel Vessels, 2006.

ABS Rules for Building and Classing Steel Vessels for Service on Rivers and Intracoastal Waterways, 1997.

ABS Rules for Building and Classing Steel Vessels Under 90 Meters (295 ft) in Length, 2006.

ABS Guidance Notes on Fire-Fighting Systems, 2005.

2.3.2 ABYC Publications. American Boat and Yacht Council, 613 Third Street, Suite 10, Annapolis, MD 21403.

ABYC A-4, *Fire Fighting Equipment*, July 2008.

ABYC A-24, *Carbon Monoxide Detection Systems*, July 2007.

ABYC A-27, *Alternating Current (AC) Generator Sets*, July 2004.

ABYC A-28, *Galvanic Isolators*, July 2008.

ABYC A-31, *Battery Chargers and Inverters*, 2010.

ABYC E-2, *Cathodic Protection*, July 2008.

ABYC E-10, *Storage Batteries*, July 2011.

ABYC E-11, *Alternating Current (AC) and Direct Current (DC) Electrical Systems on Boats*, July 2009.

ABYC H-2, *Ventilation of Boats Using Gasoline*, 2008.

ABYC H-3, *Windows, Windshields, Exterior Hatches, Doors, Port Lights and Glazing Materials*, July 2008.

ABYC H-24, *Gasoline Fuel Systems*, July 2010.

ABYC H-25, *Portable Gasoline Fuel Systems*, July 2010.

ABYC H-26, *Powering of Boats*, July 2011.

ABYC H-32, *Ventilation of Boats Using Diesel Fuel*, 2008.

ABYC H-33, *Diesel Fuel Systems*, July 2010.

ABYC H-40, *Anchoring, Mooring, and Lifting*, July 2008.

ABYC P-1, *Installation of Exhaust Systems for Propulsion and Auxiliary Engines*, 2010.

ABYC P-4, *Marine Inboard Engines and Transmissions*, May 2004.

ABYC P-6, *Propeller Shafting Systems*, July 2010.

ABYC P-14, *Mechanical Propulsion Control Systems*, December 2010.

ABYC P-17, *Steering Systems for Outboard, Inboard, Sterndrive, and Water Jet Drive Boats*, July 2008.

ABYC P-18, *Cable over Pulley Steering Systems for Outboard Engines*, July 2008.

ABYC P-21, *Manual Hydraulic Steering Systems*, July 2003.

ABYC P-22, *Steering Wheels*, July 2008.

ABYC P-23, *Steering and Propulsion Controls for Jet Boats*, July 2001.

ABYC P-24, *Electric/Electronic Propulsion Control Systems*, July 2010.

ABYC S-12, *Outboard Motor Transom and Motor Well Dimensions*, July 2010.

ABYC S-30, *Outboard Engine and Related Equipment Weights*, July 2006.

ABYC Standards and Technical Information Reports for Small Craft, July 2012.

2.3.3 ANSI Publications. American National Standards Institute, Inc., 25 West 43rd Street, 4th Floor, New York, NY 10036.

ANSI/ASME B1.20.1, *Pipe Threads, General Purpose (Inch)*, 2001.

ANSI/CGA G-7.1, *Commodity Specification for Air*, 2004.

2.3.4 ASTM Publications. ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959.

ASTM F 683, *Standard Practice for Selection and Application of Thermal Insulation for Piping and Machinery*, 2003.

2.3.5 AWS Publications. American Welding Society, 550 N.W. LeJeune Road, Miami, FL 33126.

AWS B2.1, *Specification for Welding Procedure and Performance Qualification*, 2005.

2.3.6 IMO Publications. International Maritime Organization, 4 Albert Embankment, London, SE1 7SR, United Kingdom.

IMO A 18, Resolution 749, *Code on Intact Stability for All Types of Ships Covered by IMO Instruments*, 1993 edition.

2.3.7 ISO Publications. International Organization for Standardization, 1, ch. de la Voie-Creuse, Case postale 56, CH-1211 Geneva 20, Switzerland.

ISO 12217-1, *Small Craft — Stability and Buoyancy Assessment and Categorization — Part 1: Non-Sailing Boats of Hull Length Greater Than or Equal to 6 m*, 2002.

2.3.8 U.S. Government Publications. U.S. Government Printing Office, Washington, DC 20402.

Title 33, Code of Federal Regulations, Parts 1-124, "Navigation Rules," July 2000.

Title 33, Code of Federal Regulations, Part 88, "Pilot Rules," 2012.

Title 33, Code of Federal Regulations, Parts 1251-1387, "Federal Water Pollution Control Act," 2002.

Title 46, Code of Federal Regulations, Part 25.30, "Fire-Extinguishing Equipment," 2007.

Title 46, Code of Federal Regulations, Part 56, "Piping Systems and Appurtenances," Oct. 2002.

Title 46, Code of Federal Regulations, Part 56.50-55, "Bilge Pumps," Oct. 2002.

Title 46, Code of Federal Regulations, Part 56.70, "Welding," Oct. 2002.

Title 46, Code of Federal Regulations, Part 111, "Electric Systems — General Requirements," Oct. 2002.

Title 46, Code of Federal Regulations, Part 112, "Emergency Lighting and Power Systems," Oct. 2002.

Title 46, Code of Federal Regulations, Part 177, "Construction and Arrangement," Oct. 2002.