

## ORDINANCE NO. 1145

### AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF GIG HARBOR, WASHINGTON, RELATING TO MARINA FIRE PROTECTION AND AMENDING GIG HARBOR MUNICIPAL CODE SECTION 15.16.190 TO REQUIRE THE INSTALLATION OF SLIP IDENTIFICATION MARKINGS AND CLASS I, DRY, MANUAL STANDPIPE SYSTEMS IN ALL EXISITING MARINAS; AND THE INSTALLATION OF DRAFT CURTAINS AND SMOKE AND HEAT VENTS IN ALL EXISTING COVERED MARINAS ON OR BEFORE JANUARY 1, 2014; AND TO CORRECT A TYPOGRAPHICAL ERROR IN INTERNATIONAL FIRE CODE SECTION 4604.7.1.1.

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WHEREAS, the City of Gig Harbor adopts the International Fire Code as amended by the State of Washington (Ch. 51-54 WAC); and

WHEREAS, the State has amended the International Fire Code to include a Chapter 46, Marinas, which provides requirements for marina fire protection and safety; and

WHEREAS, Chapter 46 includes provisions to reduce response times, increase protection system reliability, and reduce operating and maintenance costs by requiring installation of class I, dry, manual standpipe systems and slip identification signs (Addressing); and

WHEREAS, Chapter 46 also includes provisions to reduce the severity of fires in covered marinas by requiring draft curtains and heat and smoke vents be installed to slow fire spread; and

WHEREAS, The City has recent experience with a catastrophic fire in a covered marina contributed to, in part, by uncontrolled heat spread; the in-ability

to ventilate the roof structure; and reliability issues with existing wet standpipe systems;

WHERAS, The City Council finds that slip addressing reduces fire department response time for all responses by providing an exact location within the marina when the incident location is not readily visible such as in medical and other non-fire emergencies; and that class 1, manual, dry standpipes improve marina fire protection by reducing fire department reaction time and improving system reliability, and are consistent with local fire department policies and procedures for marina fire fighting; and that draft curtains reduce fire spread by controlling the flow of heat and smoke below unprotected roof structures; and that automatic smoke and heat vents reduce fire spread and improve facility and personnel safety by safely and effectively removing smoke and heat from below the roof structure; and the Council finds that such safety measures should be installed on all existing marinas in the City; Now, Therefore,

THE CITY COUNCIL OF THE CITY OF GIG HARBOR, WASHINGTON,  
ORDAINS AS FOLLOWS:

Section 1. Section 15.16.190 of the Gig Harbor Municipal Code is hereby amended to read as follows:

**15.16.190 Amendment to IFC Chapter 46.**

IFC Chapter 46 is amended to read:

Chapter 46

MARINAS

Section 4601

Section 4601.1 Scope. Marina facilities shall be in accordance with this chapter.

4601.1.1 Plans and approvals. Plans for marina fire-protection facilities shall be approved prior to installation. The work shall be subject to final inspection and approval after installation.

4601.1.2 Permits. Permits are required to use open flame devices for maintenance or repair on vessels, floats, piers or wharves.

## Section 4602 Definitions

Section 4602.1 Definitions. The following words and terms shall, for the purpose of this chapter and as used elsewhere in this code, have the meanings shown herein.

**COVERED BOAT MOORAGE** is a pier or system of floating or fixed access ways to which vessels on water may be secured and any portion of which are covered by a roof.

**DRAFT CURTAIN** is a structure arranged to limit the spread of smoke and heat along the underside of the ceiling or roof.

**FLOAT** is a floating structure normally used as a point of transfer for passengers and goods, or both, for mooring purposes.

**GRAVITY-OPERATED DROP OUT VENTS** are automatic smoke and heat vents containing heat-sensitive glazing designed to shrink and drop out of the vent openings when exposed to fire.

**MARINA** is any portion of the ocean or inland water, either naturally or artificially protected, for the mooring, servicing or safety of vessels and shall include artificially protected works, the public or private lands ashore, and structures or facilities provided within the enclosed body of water and ashore for the mooring or servicing of vessels or the servicing of their crews or passengers.

**PIER** is a structure built over the water, supported by pillars or piles, and used as a landing place, pleasure pavilion or similar purpose.

**VESSEL** is watercraft of any type, other than seaplanes on the water, used or capable of being used as a means of transportation. Included in this definition are non-transportation vessels such as houseboats and boathouses.

**WHARF** is a structure or bulkhead constructed of wood, stone, concrete or similar material built at the shore of a harbor, lake or river for vessels to lie alongside of, and piers or floats to be anchored to.

## Section 4603 General Precautions

4603.1 Combustible Debris. Combustible debris and rubbish shall not be deposited or accumulated on land beneath marina structures, piers or wharves.

4603.2 Sources of Ignition. The use of open flame devices for lighting or decoration on the exterior of a vessel, float, pier or wharf shall have the prior approval of the building official/fire marshal.

4603.3 Flammable or Combustible Liquid Spills. Spills of flammable or combustible liquids at or upon the water shall be reported immediately to the fire department or jurisdictional authorities.

4603.4 Rubbish Containers. Containers with tight-fitting or self-closing lids shall be provided for the temporary storage of combustible trash or rubbish.

4603.5 Electrical Equipment. Electrical equipment shall be installed and used in accordance with its listing and Section 605 of the IFC as required for wet, damp and hazardous locations.

4603.6 Slip Identification. Slips and mooring spaces shall be individually identified by an approved numeric or alphabetic designator. Space designators shall be posted at the space. Signs indicating the space designators located on finger piers and floats shall be posted at the base of all piers, finger piers, floats, and finger floats.

4603.6.1 Application to existing marinas. Slip identification designators shall be installed in all existing marinas within the City's jurisdiction on or before January 1, 2014. All marinas annexed into the City shall have slip identification designators installed within 5 years of the effective date of annexation.

## Section 4604 FIRE-PROTECTION

4604.1 General. Marinas, piers, wharves, floats with facilities for mooring or servicing five or more vessels, and marine motor vehicle fuel-dispensing stations shall be equipped with fire-protection equipment in accordance with Section 4604.

4604.2 Standpipes. Marinas shall be equipped throughout with Class I manual, dry standpipe systems in accordance with NFPA 303. Systems shall be provided with outlets located such that no point on the marina pier or float system exceeds 150 feet from a standpipe outlet.

4604.2.1 Application to existing marinas. Class 1 manual, dry standpipes in accordance with this section shall be installed in all existing marinas within the City on or before January 1, 2014. All marinas annexed into the City shall have class one manual, dry standpipes installed within 5 years of the effective date annexation.

4604.2.1 Identification of standpipe outlets. Standpipe outlet locations shall be clearly identified by a flag or other approved means designed to be readily visible from the pier accessing the float system.

4604.3 Access and Water Supply. Piers and wharves shall be provided with fire apparatus access roads and water-supply systems with on-site fire hydrants when required by the building and fire safety director. At least one fire hydrant capable of providing the required fire flow shall be provided within an approved distance of standpipe supply connections.

4604.4 Portable Fire Extinguishers. One 4A:40BC fire extinguisher shall be provided at each standpipe outlet. Additional fire extinguishers, suitable for the hazards involved, shall be provided and maintained in accordance with Section 906.

4604.5 Communications. A telephone not requiring a coin to operate or other approved, clearly identified means to notify the fire department shall be provided on the site in a location approved by the building and fire safety director.

4604.6 Equipment staging areas. Space shall be provided on all float systems for the staging of emergency equipment. Staging areas shall provide a minimum of 4 feet wide by 10 feet long clear area exclusive of walkways and shall be located at each standpipe outlet. Staging areas shall be provided with barriers having a minimum height of 4 inches and a maximum space between the bottom barrier edge and surface of the staging area of 2 inches on the outboard sides to prevent loss of equipment overboard. A sign reading "Fire Equipment Staging Area-Keep Clear" shall be provided at each staging area to prevent obstruction.

4604.7 Smoke and heat vents. Approved automatic smoke and heat vents shall be provided in covered boat moorage areas exceeding 2,500 sq. ft. (232 m<sup>2</sup>) in area, excluding roof overhangs.

Exception: Smoke and heat vents are not required in areas protected by automatic sprinklers.

4604.7.1 Application to existing marinas. Smoke and heat vents in accordance with this section shall be installed in all existing marinas within the City on or before January 1, 2014. All marinas annexed into the City

shall have smoke and heat vent installed within 5 years of the effective date of annexation.

4604.7.2 Design and installation. Where smoke and heat vents are required they shall be installed near the roof peak, evenly distributed and arranged so that at least one vent is over each covered berth. The effective vent area shall be calculated using a ratio of one square foot of vent to every fifteen square feet of covered berth area (1:15). Each vent shall provide a minimum opening size of 4 ft. x 4 ft.

4604.7.2.1 Smoke and heat vents. Smoke and heat vents shall operate automatically by actuation of a heat-responsive device rated at 100°F (56°C) above ambient.

Exception: Gravity-operated ~~drip~~ drop out vents.

4604.7.2.2 Gravity-operated drop out vents. Gravity-operated drop out vents shall fully open within 5 minutes after the vent cavity is exposed to a simulated fire represented by a time-temperature gradient that reaches an air temperature of 500°F (260°C) within 5 minutes.

4604.8 Draft curtains. Draft curtains shall be provided in covered boat moorage areas exceeding 2,500 sq. ft. (232 m<sup>2</sup>) in area excluding roof overhangs.

Exception: Draft curtains are not required in areas protected by automatic sprinklers.

4604.8 Application to existing marinas. Draft curtains in accordance with this section shall be installed in all existing marinas within the City on or before January 1, 2014. All marinas annexed into the City shall have draft curtains installed within 5 years of the effective date of annexation.

4604.8.1 Draft curtain construction. Draft curtains shall be constructed of sheet metal, gypsum board or other approved materials that provide equivalent performance to resist the passage of smoke. Joints and connections shall be smoke tight.

4604.8.2 Draft curtain location and depth. The maximum area protected by draft curtains shall not exceed 2,000 square feet (186 m<sup>2</sup>) or two slips or berths, whichever is smaller. Draft curtains shall not extend past the piling line. Draft curtains shall have a minimum depth of 4 feet and shall not extend closer than 8 feet (2438 mm) to the walking surface of the pier

Section 4607  
MARINE MOTOR VEHICLE FUEL-DISPENSING STATIONS

4607.1 Fuel-Dispensing. Marine motor vehicle fuel-dispensing stations shall be in accordance with IFC Chapter 22.

Section 2. Severability. If any section, sentence, clause or phrase of this Ordinance is held to be invalid or unconstitutional by a court of competent jurisdiction, such invalidity or unconstitutionality shall not affect the validity or constitutionality of any other section, clause or phrase of this Ordinance.

Section 3. Copies of Codes Filed with City Clerk. Pursuant to RCW 35A.12.140, copies of all of the codes adopted by reference in this Ordinance have been filed with the City Clerk for use and examination by the public prior to adoption.

Section 4. Effective Date. This Ordinance shall take effect and be in full force five (5) days after passage and publication of an approved summary consisting of the title.

PASSED by the City Council and approved by the Mayor of the City of Gig Harbor this 27<sup>th</sup> day of October, 2008.

CITY OF GIG HARBOR

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CHARLES L. HUNTER, MAYOR

ATTEST/AUTHENTICATED:

By: \_\_\_\_\_  
MOLLY TOWSLEE, City Clerk

APPROVED AS TO FORM:  
OFFICE OF THE CITY ATTORNEY

By: \_\_\_\_\_  
CAROL A. MORRIS

FILED WITH THE CITY CLERK: 10/08/08  
PASSED BY THE CITY COUNCIL: 10/27/08  
PUBLISHED: 11/05/08  
EFFECTIVE DATE: 11/10/08  
ORDINANCE NO: 1145