



CO00020574

**SNOHOMISH COUNTY COUNCIL
Snohomish County, Washington**

**AMENDED ORDINANCE NO. 96-098
RELATING TO ADOPTION AND AMENDMENT OF THE
WASHINGTON STATE UNIFORM FIRE CODE,
ESTABLISHING MINIMUM STANDARDS FOR FIRE ALARM SYSTEMS,
WATER MAINS, AND FIRE HYDRANTS,
AND AMENDING TITLES 16 and 17 SCC**

BE IT ORDAINED:

Section 1. Snohomish County Code Sections 16.04.015, 16.04.020, 16.04.050, 16.04.090, 16.04.110, 16.04.130, 16.04.160, 16.04.170, 16.04.180, 16.04.190, 16.04.200, and 16.04.230, last amended by Ordinance No. 93-162 on January 12, 1994, are **REPEALED**.

Section 2. Snohomish County Code Section 16.04.125, adopted by Ordinance No. 93-162 on January 12, 1994, is **REPEALED**.

Section 3. Snohomish County Code Section 16.04.220, adopted by Ordinance No. 88-074 on August 31, 1988, is **REPEALED**.

Section 4. Snohomish County Code Section 16.10.180, adopted by Ordinance No. 86-056 on June 11, 1986, is **REPEALED**.

Section 5. Snohomish County Code Chapter 16.20, last amended by Ordinance No. 95-111 on January 10, 1996, is **REPEALED**.

Section 6. Snohomish County Code Section 16.04.010, last amended by Ordinance No. 93-162 on January 12, 1994, is **AMENDED** to read:

16.04.010 Uniform fire code (~~((1991 edition))) 1994 edition, volume 1, appendices and volume 2~~ adopted - copies on file

The uniform fire code, ~~((1994 Edition))~~ volume 1, and uniform fire code standards, volume 2, 1994 edition, published by the ~~((international conference of building officials and western fire chiefs association))~~ international fire code institute, as adopted and amended by the Washington state building code council and included in chapter 19.27 of the revised code of Washington (RCW), except as expressly amended by ((this chapter, by chapter 19.27 RCW and chapter 51-24 WAC-)) the county, is ~~((hereby))~~ incorporated herein and made a part of this chapter by reference and is adopted as the uniform fire code of Snohomish county. Appendices I-C, II-B, II-C, II-F, II-G, III-A, III-B, III-C, IV-B, V-A, VI-A, VI-D, VI-E and VI-G of the uniform fire code, volume 1, 1994 edition, are adopted, incorporated by reference and made a part hereof as if fully set out in this chapter. One copy of the uniform fire code of Snohomish county ~~((is))~~ shall be placed on file ~~((in the office of))~~ with the Snohomish county auditor and one copy ~~((is))~~ shall be placed on file with the ~~((Everett public))~~ Sno-Isle regional library system.

Section 7. NEW SECTION. A **NEW SECTION** is added to chapter 16.04 of the Snohomish County Code to read:

16.04.012 Applicability - alterations, repairs and building additions.

(1) This chapter applies to all newly constructed structures for which a complete application for a building permit is submitted on or after the effective date of this chapter.

(2) If a preexisting structure is altered or repaired in such a manner that the total value of such alterations or improvements which occur within a 60 month period exceeds 50 percent of the assessed value of the structure as it existed at the commencement of the 60 month period, this chapter applies to the entirety of such structure.

(3) Any additions to preexisting structures shall be considered new construction and this chapter applies to all such additions for which building permits are submitted on or after the effective date of this chapter.

Section 8. NEW SECTION. A **NEW SECTION** is added to chapter 16.04 of the Snohomish County Code to read:

16.04.025 Subsection 103.2.1.2 deleted and new subsection 103.2.1.2 added.

Subsection 103.2.1.2 is deleted in its entirety and replaced with a new subsection 103.2.1.2 as follows:

103.2.1.2 Personnel and police. The Snohomish county fire marshal and members of the office of the county fire marshal designated by the fire marshal shall have the powers of a limited authority Washington peace officer as defined in chapter 10.93 RCW.

The Snohomish county sheriff may be petitioned to commission the Snohomish county fire marshal and members of the office of the county fire marshal recommended by the fire marshal as specially commissioned Washington peace officers, as defined in chapter 10.93 RCW, upon satisfaction of the training and other requirements prescribed or approved by the Washington criminal justice training commission, for purposes of administering and enforcing the uniform fire code and title 16 SCC.

The Snohomish county sheriff may assign such available deputy sheriffs as he or she deems necessary to assist the fire marshal in administering and enforcing the uniform fire code and title 16 SCC.

Section 9. NEW SECTION. A **NEW SECTION** is added to chapter 16.04 of the Snohomish County Code to read:

16.04.035 Subsection 103.2.2.1 deleted. Subsection 103.2.2.1 is deleted in its entirety.

Section 10. NEW SECTION. A **NEW SECTION** is added to chapter 16.04 of the Snohomish County Code to read:

16.04.045 Subsection 103.2.2.2 deleted and new subsection added. Subsection 103.2.2.2 is deleted in its entirety and replaced with a new section 103.2.2.2 as follows:

103.2.2.2 Fire prevention engineer. The fire marshal is authorized to designate a member of the office of the county fire marshal to exercise the powers and perform the duties of fire prevention engineer as set forth in this code.

Section 11. Snohomish County Code Section 16.04.060, last amended by Ordinance No. 93-162 on January 12, 1994, is **AMENDED** to read:

16.04.060 ((Section)) Subsection ((2.201 subsection (e))) 103.3.1.1 ((added)) deleted and new subsection added.

~~((A new subsection "(e)" is added to section (2-201 which reads))~~ Subsection 103.3.1.1 is deleted in its entirety and replaced with a new subsection 103.3.1.1 as follows:

~~((e) There))~~ **103.3.1.1 Authority to inspect.** The office of the county fire marshal is authorized to inspect, as often as it deems necessary, buildings and premises, including such other hazards or appliances designated by the fire marshal for the purpose of ascertaining and causing to be corrected any conditions which would reasonably tend to cause fire or contribute to its spread, or any violation of this code and of any other law or standard affecting fire safety. In addition, there shall be a fire inspection annually or as often as deemed necessary by the fire marshal for the purpose of renewing certificates of occupancy for all buildings or structures in groups A, ~~((E, I, H, B, or R Div. 4))~~ B, E, F, H, I, LC, M, R-1, S, and U-1, occupancies.

Section 12. Snohomish County Code Section 16.04.080, last amended by Ordinance No. 93-162 on January 12, 1994, is **AMENDED** to read:

16.04.080 ~~((Section))~~ Subsection ~~((2-303))~~ 103.1.4 deleted and new
~~((section))~~ subsection ~~((2-303))~~ 103.1.4 added.

~~((Section))~~ Subsection ~~((2-303))~~ 103.1.4 is deleted in its entirety and replaced with a new ~~((section))~~ subsection ~~((2-303))~~ 103.1.4 ~~((is added to read))~~ as follows:

103.1.4 Appeals. The board of appeals shall operate under the provisions of chapter 17.50, snohomish county code.

Section 13. NEW SECTION. A **NEW SECTION** is added to chapter 16.04 of the Snohomish County Code to read:

16.04.085 Subsection 104.2 deleted and new subsection 104.2 added.

Subsection 104.2 is deleted in its entirety and replaced with a new subsection 104.2 as follows:

104.2 Investigations. The office of the county fire marshal is authorized to investigate the cause, origin and circumstances of each and every fire occurring in the jurisdiction involving loss of life or injury to person or destruction or damage to property and, if it appears that such fire is of suspicious origin, is authorized to take immediate charge of all physical evidence relating to the cause of the fire and is authorized to pursue the investigation to its conclusion.

Section 14. Snohomish County Code Section 16.04.095, last amended by Ordinance No. 93-162 on January 12, 1994, is **AMENDED** to read:

16.04.095 Section ((9-105)) 204 amended. Section ((9-105)) 204 is amended ((to-read)) as follows:

(1) The definition of "Chief ((or Chief of the fire department))" is deleted in its entirety and the following definition is added:

"CHIEF ((OR CHIEF OF THE FIRE DEPARTMENT))" ((shall mean)) means the ((director of)) Snohomish county ((department of planning and development services, or his or her duly authorized designee)) fire marshal.

(2) The definition of "CHIEF ENGINEER" is deleted in its entirety.

The definition of "CHIEF OF POLICE or POLICE DEPARTMENT" is deleted in its entirety and the following definition is added:

"CHIEF OF POLICE or POLICE DEPARTMENT" means the Snohomish county sheriff or Snohomish county sheriff's office.

(4) A definition of "COMMERCIAL OCCUPANCY" is added as follows:

"COMMERCIAL OCCUPANCY" means groups A, B, I, E, H, F, LC, M, R-1 and S occupancies as defined in Table 3-A of appendix VI-D of the uniform fire code, volume 1, 1994 edition.

Section 15. Snohomish County Code, section 16.04.100, last amended by Ordinance No. 93-162 on January 12, 1994, is **AMENDED** to read:

16.04.100 Section ((9-108)) 207 amended. Section ((9-108)) 207 is amended as follows:

(1) The following definition is added:

FIRE LANE (FIRE APPARATUS ACCESS ROAD) is any road or driving surface whether public or private that is used to meet the access requirement of ~~this chapter~~ or the currently adopted edition of the uniform fire code.

(2) The definition of "FIRE DEPARTMENT" is deleted, and the following definition is added:

"FIRE DEPARTMENT" ~~((shall mean))~~ means the office of the
~~((Snohomish))~~ county fire marshal~~(('s office))~~.

Section 16. NEW SECTION. A **NEW SECTION** is added to Chapter 16.04 of the Snohomish County Code to read:

16.04.105 Section 222 amended. Section 222 is amended as follows:

The definition of UL is deleted in its entirety and the following definition is added:

"UL" means Underwriters Laboratories, Inc., or other independent testing laboratory approved by the fire marshal.

Section 17. Snohomish County Code Section 16.04.120, last amended by Ordinance 93-162 on January 12, 1994, is **AMENDED** to read:

16.04.120 Fire plan review and ~~((inspection))~~ permit fee. When a plan or other data is required to be submitted by titles 16 or 17 SCC ~~((Section 302 UBC))~~ for ~~((sprinkler))~~ fire extinguishing systems, alarm systems, ventilation systems, underground tanks, and LP tanks a plan review fee ~~((shall be paid at the time of plan and specification submittal))~~, and ~~((an inspection))~~ a permit fee shall be paid prior to permit issuance. The fees shall be in accordance with the schedule of fees in chapter 17.02 SCC.

Section 18. NEW SECTION. A **NEW SECTION** is added to chapter 16.04 of the Snohomish County Code to read:

16.04.135 Subsection 902.1 deleted and new subsection 902.1 added. Subsection 902.1 is deleted in its entirety and replaced with a new subsection 902.1 as follows:

902.1 General. Fire apparatus access roads shall be provided and maintained in accordance with sections 901 and 902.

Section 19. NEW SECTION. A **NEW SECTION** is added to chapter 16.04 of the Snohomish County Code to read:

16.04.137 Sections 902.2 through 902.4.1 added. Sections 902.2 through 902.4.1 are added as follows:

902.2 Fire apparatus access roads.

902.2.1 Required access. Fire apparatus access roads shall be provided in accordance with Sections 901 and 902.2 for every facility, building or portion of a building hereafter constructed or moved into or within the jurisdiction when any portion of the facility or any portion of an exterior wall of the first story of the building is located more than 150 feet from fire apparatus access as measured by an approved route around the exterior of the building or facility. See also Section 902.3 for personnel access to buildings.

EXCEPTIONS: 1. When buildings are completely protected with an approved automatic fire sprinkler system, the provisions of Sections 902.2.1 and 902.2.2 may be modified by the fire marshal.

2. When access roads cannot be installed due to location on property, topography, waterways, nonnegotiable grades or other similar conditions, the fire marshal is authorized to require additional fire protection as specified in section 1001.9.

3. When there are not more than two Group R, Division 3, or Group U Occupancies, the requirements of Sections 902.2.1 and 902.2.2 may be modified by the fire marshal.

More than one fire apparatus road shall be provided when it is determined by the fire marshal that access by a single road might be impaired by vehicle congestion, condition of terrain, climatic conditions or other factors that could limit access.

For high-piled combustible storage, see UFC Section 8102.5.1.

For required access during construction, alteration or demolition of a building, see Section 8704.2.

902.2.2 Specifications.

902.2.2.1 Dimensions. Fire apparatus access roads shall have an unobstructed width of not less than 20 feet and an unobstructed vertical clearance of not less than 13 feet 6 inches.

EXCEPTION: Vertical clearance may be reduced, provided such reduction does not impair access by fire apparatus and approved signs are installed and maintained indicating the established vertical clearance when approved by the fire marshal.

Vertical clearances or widths shall be increased when, in the opinion of the fire marshal, vertical clearances or widths are not adequate to provide fire apparatus access.

902.2.2.2 Surface. All fire apparatus access roadways shall be constructed of an all-weather surface capable of supporting 25-ton vehicles.

902.2.2.3 Turning Radius. Turns, bends, or sweeps in fire apparatus access roadways shall be designed at not less than twenty foot inside-turning radii nor less than forty foot outside-turning radii.

902.2.2.4 Dead ends. Dead-end fire apparatus access roads in excess of 150 feet in length shall be provided with approved provisions for the turning around of fire apparatus.

902.2.2.5 Bridges. When a bridge is required to be used as part of a fire apparatus access road, it shall be constructed and maintained in accordance with the department of public works engineering design and development standards adopted by the county. The bridge shall be designed to carry an AASHTO (American Association of State Highway and Traffic Officials) HS 20-44 live load or greater, sufficient to carry the imposed loads of fire apparatus. Vehicle load limits shall be posted at both entrances to bridges when required by the fire marshal.

902.2.2.6 Grade. The gradient for a fire apparatus access road shall not exceed fifteen (15) percent.

902.2.3 Marking. See section 901.4.

902.2.4 Obstruction and control of fire apparatus access.

902.2.4.1 General. The required width of a fire apparatus access road shall not be obstructed in any manner including parking of vehicles. Minimum required widths and clearances established under Section 902.2.2.1 shall be maintained at all times.

Entrances to roads, trails or other accessways which have been closed with gates and barriers in accordance with Section 902.2.4.2 shall not be obstructed by parked vehicles.

Section 20. NEW SECTION. A **NEW SECTION** is added to chapter 16.04 of the Snohomish County Code to read:

16.04.145 Section 1001.4 amended. The last paragraph of section 1001.4 is deleted in its entirety and the following paragraph is added:

Fire alarm and detection systems shall be tested in accordance with National Fire Protection Association (NFPA) 72, 1993 edition.

Section 21. NEW SECTION. A **NEW SECTION** is added to chapter 16.04 of the Snohomish County Code to read:

16.04.155 Subsection 1007.1.1 deleted and new subsection 1007.1.1 added. Subsection 1007.1.1 is deleted in its entirety and replaced with a new subsection 1007.1.1 as follows:

1007.1.1 Applicability. Installation and maintenance of fire alarm systems shall be in accordance with section 1007 of the uniform fire code 1994 edition, and national fire protection association (NFPA) 72, 1993 edition.

Section 22. NEW SECTION. A **NEW SECTION** is added to chapter 16.04 of the Snohomish County Code to read:

16.04.165 Subsection 1007.1.6 added. Subsection 1007.1 is amended by adding a new subsection 1007.1.6 as follows:

1007.1.6 Fire alarm systems.

1007.1.6.1 Permit required. It is unlawful for any person to install, alter or modify any new or existing fire alarm system without first having obtained a permit from the department. In subsection 1007.1.6, "department" means the Snohomish county department of planning and development services.

Exception: Residential occupancies as defined by SCC 17.02.015.

1007.1.6.2 Permit submittal/completeness requirements. The department shall establish, and may from time to time revise, submittal requirements in the form of a fire alarm system application checklist. The checklist shall prescribe specific submittal requirements (such as plans, forms and supporting documents) and completeness criteria for fire alarm system applications. The checklist shall be available to the public.

Submittal requirements established by the department shall include at least the following:

- (a) Applicant's name, address and phone number;
- (b) Contractor's/Installer's name, address and phone number;
- (c) Site address;
- (d) Two (2) copies of detailed plans depicting the following:
 - (i) Building elevation(s);
 - (ii) Floor plans depicting all rooms and spaces with accurate measurements to scale no smaller than 1/8 inch scale;
 - (iii) Identification of each room or space as to its intended use, i.e. office, lobby, attic, etc.;
 - (iv) Location of each system component using symbol identification;
 - (v) Legend and explanatory notes to identify symbols used and the manufacturer and model number of each alarm component used;
 - (vi) Wiring schematic clarifying the type and size of wiring showing compliance with NFPA 70, and a point to point wiring diagram;
 - (vii) Identification of the different alarm zones, if applicable;
 - (viii) Stamp of a Washington state registered fire protection or electrical engineer or, the designer's Washington state low voltage specialty electrical contractor's license number.
- (e) Two (2) copies of technical specifications for the fire alarm system, including battery calculations for each component used in the makeup of the automatic fire alarm system. UL cross listing compatibility cards are required if components are not all from the same manufacturer.
- (f) Additional information or documentation indicated on the current fire alarm system application checklist provided by the department.

1007.1.6.3. Inspection and installation approval. Upon completion of the installation, an inspection will be conducted and final approval granted upon passing inspection and completion of the following:

- (a) Verification that the company or individual installing the system has a Washington state electrical contractor's license;
- (b) Verification that the individual(s) doing the actual installation has a Washington state low voltage installer's certificate or a journeyman electrician's certificate pursuant to RCW 19.28.510, except that an apprentice certificate is acceptable for installers when supervised by a certified journeyman pursuant to RCW 19.28.510 - 19.28.620;
- (c) Demonstration of performance through an operational performance test of the entire system, shall be coordinated by the fire marshal, or

his/her designee and shall require the presence of a representative of the fire alarm installer and an owner's representative (where fire extinguishing systems have also been installed, a representative from that firm may also be required to be present);

- (d) Use of a decibel meter or other approved device will be employed by the representative of the fire marshal's office to determine compliance with minimum sound level requirements;
- (e) The contractor/installer of the alarm system shall complete and return to the fire marshal or his/her designee a contractor's material and test certificate.

1007.1.6.4 Non compliance and test failure. If on the basis of an inspection or test of the fire alarm system, the fire marshal or the fire marshal's designee determines that the system fails to comply with county requirements, or if it does not conform to the approved plans, the fire marshal or designee shall notify the building official or the building official's designee of the deficiencies and no certificate of occupancy shall be issued until the deficiencies are corrected and approved by the fire marshal or the fire marshal's designee.

Section 23. NEW SECTION. A **NEW SECTION** is added to chapter 16.04 of the Snohomish County Code to read:

16.04.175 Subsection 1007.2.1.1 deleted and new subsection 1007.2.1.1 added.

Subsection 1007.2.1.1 is deleted in its entirety and replaced with a new subsection 1007.2.1.1 as follows:

1007.2.1.1 When required. An approved manual, automatic or manual and automatic fire alarm system shall be provided in accordance with Section 1007.2. In addition, structures constructed for commercial occupancies which are 14,000 square feet or more in gross floor area, and are required under section 1007.2 to install a fire alarm system, shall have said system supervised and connected to a UL approved fire alarm center unless the building or structure is fully sprinklered.

Section 24. NEW SECTION. A **NEW SECTION** is added to chapter 16.04 of the Snohomish County Code to read:

16.04.240 A new subsection 1007.1.4.1 is added.

A new subsection 1007.1.4.1 is added as follows:

1007.1.4.1 Excessive false alarms - penalty imposed. No more than three false alarms from any location shall be permitted within any calendar year. The owner or operator of any location from which more than three false alarms are sent within any calendar year shall be subject to the imposition of a civil or criminal penalty pursuant to sections 28.08.080 through 28.08.110 SCC.

Section 25. NEW SECTION. A **NEW SECTION** is added to chapter 16.04 of the Snohomish County Code to read:

16.04.250 Sections 1007.2.9.3.1 through 1007.2.9.3.9 added. Sections 1007.2.9.3.1 through 1007.2.9.3.9 are added as follows:

1007.2.9.3 Group R-division 3 and LC occupancies - applicability. This section shall apply to only to group R division 3, and LC occupancies as defined by the uniform building code.

1007.2.9.3.1 Definitions. The following words, terms and phrases, when used in this article, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning;

(1) **“Approved smoke detector”** means an ionization or photoelectric device which detects visible or invisible products of combustion other than heat, which omits an audible signal indicating a fire condition or both an audible and visual signal indicating a fire condition, which conforms to Washington State Building Code requirements, and which is listed by Underwriters Laboratories or any other nationally recognized testing laboratory. A device which detects only heat shall not constitute an approved smoke detector under this article;

(2) **“Battery-operated”** means powered by an integral battery or batteries;

(3) **“Hard-wired”** means directly connected to a building’s AC electrical power supplied by a commercial light and power source. Wiring shall be

permanent without a disconnecting switch other than those required for overcurrent protection;

(4) **“Residence”** for the purpose of this section means those structures classified as a group R division 3 or LC occupancy by the uniform building code;

(5) **“Owner”** means a person who alone, jointly or severally with others, shall have all or part of the legal title to any residence;

(6) **“Sleeping area”** means an area of a residence containing bedrooms which are separated from each other by no use area other than a bathroom.

1007.2.9.3.2 Installation required. (1) The smoke detector shall be installed in a manner and location consistent with the manufacturer's instructions. The installation shall include not less than one smoke detector adjacent to the sleeping area which is in operable condition and provides an audible warning that can be heard in all rooms, including the sleeping area(s), and not less than one smoke detector on each level of the dwelling, including the basement but excluding any crawl space or unfinished attic. Where multiple sleeping areas exist and are widely separated (i.e., on different levels or opposite ends of the residence), or where a single smoke detector will not adequately service all sleeping areas, there shall be additional smoke detectors installed adjacent to each sleeping area.

(2) Hard-wired smoke detectors shall be installed in all residences built or manufactured after December 31, 1980. In new construction, required smoke detectors shall receive their primary power from the building wiring when such wiring is served from a commercial source and shall be equipped with a battery backup. The detector shall emit a signal when the batteries are low. Wiring shall be permanent and without a disconnecting switch other than those required for overcurrent protection. Battery-operated smoke detectors may be utilized in existing residences which were constructed prior to December 31, 1980.

(3) No permit for alterations, repairs or additions to an existing residence shall be issued unless the owner certifies that a properly operating smoke detector has been installed in the residence in accordance with this section.

1007.2.9.3.4 Testing and maintenance. Installation of smoke detection devices shall be the responsibility of the owner. Maintenance of smoke detection devices, including the replacement of batteries where required for the proper operation of the smoke detection device, shall be the responsibility of the tenant or occupant. It shall be the responsibility of the tenant or occupant to maintain the device as specified by the manufacturer and test the performance of the smoke detector(s) as recommended by the manufacturer, at intervals of not less

than once a month. If the detector is battery operated, new batteries shall be installed whenever the unit emits a low battery signal, or a minimum of once each year whether or not a low battery signal is present.

1007.2.9.3.5 Removal or tampering. It shall be unlawful for any person to remove a properly functioning smoke detector installed in conformance with this section unless it is for the purpose of repair or replacement of the unit. It shall be unlawful for any person to remove batteries, other than for replacement, or in any other way make inoperable or interfere with the effectiveness of a smoke detector installed in conformance with this section.

1007.2.9.3.6 Transfer of residence. It shall be unlawful for any person to convey fee title, rent or lease any real property which includes a residence, or transfer possession of any residence pursuant to a land sale contract, unless there is a properly operating smoke detector in the residence which has been installed in accordance with this section. Prior to the closing of sale, or entering into a rental or lease agreement of a residence, it shall be the duty of the owner to certify to the buyer, renter or lessee, in writing, that all smoke detectors required by this section are installed and in proper working order.

1007.2.9.3.7 Nonliability of county. The county, the fire marshal and their inspectors, agents and employees shall not be held liable in any civil action for damages, death or injury to persons or property resulting from the failure to install, or the failure of, a smoke detector required under this article.

Section 26. NEW SECTION. A **NEW SECTION** is added to chapter 16.04 of the Snohomish County Code to read:

16.04.185 Section 903 deleted.

Section 903 deleted. Section 903 is deleted in its entirety. Minimum standards for water mains and fire hydrants are established in chapter 16.36 SCC.

Section 27. Snohomish County Code section 16.16.010, adopted by resolution on September 19, 1966, is **AMENDED** to read:

16.16.010 Office established.

The office of the county fire marshal is established and shall remain an autonomous agency of county government. The ~~((chief (fire marshal)))~~ county fire marshal shall be expressly employed for that position. The duties and responsibilities of the county fire marshal shall not be a secondary duty

assignment nor shall the fire marshal assume duties not commensurate with those normally accepted as pertaining to fire prevention, fire investigation and suppression. This does not preclude assignment of the office of county fire marshal to some existing or later created branch of county government solely and exclusively for administrative functioning.

Section 28. Snohomish County Code Chapter 16.36, adopted by Ordinance No. 82-110 on October 26, 1982, is **REPEALED AND RE-ENACTED** to read:

Chapter 16.36

MINIMUM STANDARDS FOR WATER MAINS AND FIRE HYDRANTS

Sections:

16.36.010	Purpose
16.36.020	Definitions
16.36.030	Applicability
16.36.040	Required water supply for fire protection
16.36.050	Exemptions
16.36.060	Conditions
16.36.070	Fire hydrant spacing
16.36.080	Fire hydrant installation and maintenance requirements
16.36.090	Water main specifications
16.36.100	Procedures for compliance
16.36.110	Fire department notification.
16.36.120	Water purveyor authority

16.36.010 Purpose.

The purpose of this chapter is to establish minimum fire flow design criteria and minimum fire flow requirements for land development.

16.36.020 Definitions.

In this chapter, unless the context clearly requires otherwise,

- (1) "**Fire department**" means the fire district responsible for fire protection in the area;
- (2) "**FDC**" means fire department connection;
- (3) "**Fire flow**" means the rate of water delivery needed for the sole purpose of fighting fires. The fire flow volume shall be in addition to the

requirements of the water system for domestic demand, and a 20 psi residual pressure should be maintained throughout the system under combined maximum demand flow conditions.

- (4) **"Fire hydrant"** means a mechanical device which is self-draining, frost free, and is constructed to provide the required fire flow for the area serviced;
- (5) **"Private fire hydrant"** means a fire hydrant which is situated and maintained so as to provide water for fire fighting purposes with restrictions as to its use or accessibility by the public;
- (6) **"Public Hydrant"** means a fire hydrant which is dedicated or otherwise permanently appropriated to the public for public use.
- (7) **"Public water system"** means any system or water supply intended to be used for human consumption or other domestic uses, including, but not limited to sources, treatment, storage, transmission and distribution facilities where water is furnished to any community, collection or number of individuals, or is made available to the public for human consumption or domestic use, excluding water systems serving a single family residence, water systems existing prior to September 21, 1977 which are owner operated and serve less than ten single family residences, and water systems serving no more than one industrial plant.
- (8) **"Water purveyor"** means a federal, state, or county agency, or city, town, municipal corporation, firm, company, association, corporation, partnership, district, institution, person or persons owning or operating a public or private water system;
- (9) **"Rural area"** means those areas of the county outside of an urban growth area as depicted in the Snohomish county comprehensive plan;
- (10) **"UFC"** means the uniform fire code;
- (11) **"Water main"** means the piping used or which may be used to deliver domestic or industrial water and/or fire flows intended for fire protection in amount prescribed in this chapter, and excludes storage facilities, hydrants, and service connections.

16.36.030 Applicability.

This chapter shall apply to land use actions subject to titles 17,18, 19, 19A, or 20 SCC, or to any other existing or future provision of this code in which compliance with title 16 SCC is specifically required.

16.36.040 Required water supply for fire protection.

(1) All land upon which buildings or portions of buildings are or may be constructed, erected, enlarged, altered, repaired, moved into the jurisdiction, or improved, shall be served by a water supply designed to meet the required fire flow for fire protection as set out in appendix III-A of the uniform fire code, except that fire flow requirements for rural areas shall be reduced by 25 percent and fire

flow requirements for structures with a supervised fire alarm system as defined in section 1007 may be reduced by 15 percent.

(2) Prior to the issuance of a building permit, written verification by the water purveyor of actual fire flow, calculated in accordance with appendix III-A of the uniform fire code, shall be provided to the fire marshal.

16.36.050 Exemptions.

Except as provided in SCC 16.36.060, the following permits and approvals are exempt from the water supply and fire hydrant requirements of this chapter:

(1) Subdivisions and short subdivisions in which any lot is being created with a lot area of 43,560 square feet (one acre) or more in size.

(2) Building permits for structures classified by the uniform building code as group U-1 occupancies (agricultural buildings, private garages; carports and sheds) that are restricted to private residential use only, provided that riding arenas or other agricultural type structures used or accessed by the public shall not be exempt.

(3) Building permits for single family detached dwellings, and mobile home permits for mobile homes in mobile home parks, and mobile homes to be placed on a single lot with a lot area of 43,560 square feet (one acre) or more in size.

16.36.060 Conditions

The fire marshal or the fire marshal's designee, shall have the authority to impose conditions on permits issued by the department of planning and development services where necessary to mitigate fire hazards.

16.36.070 Fire hydrant Spacing.

(1) Fire hydrant locations shall be determined by the fire marshal, in coordination with the water purveyor, and pursuant to the requirements of Appendix III-B of the Uniform Fire Code subject to the following exceptions:

(A) Fire hydrants serving single family dwellings or duplexes shall have a maximum lateral spacing of 600 feet with no lot or parcel in excess of 300 feet from a fire hydrant.

(B) Where the buildings are protected by an approved automatic sprinkler system, the spacing requirements may be modified, if in the opinion of the fire marshal or his designee, the level of fire protection is not reduced.

(2) For dead-end streets or roads the fire marshal may make adjustments to the lateral spacing requirements to facilitate locating the hydrant at or near the

intersection and hydrants shall be located at, or near street intersections whenever possible.

(3) All hydrants shall be accessible to the fire department by roadways or accesses meeting the requirements of chapter 16.04 SCC.

(4) When hydrants cannot be installed in conformance with this chapter, the fire marshal shall confer with the water purveyor and provide for alternate locations as allowed by the uniform fire code.

16.36.080 Fire hydrant installation and maintenance requirements

The standards contained in this section apply to all new hydrant installations and to replacement of existing hydrants on public water systems that are required by the UFC to provide fire flow.

(1) The installation of all fire hydrants shall be in accordance with sound engineering practices and supplied by mains as prescribed by this chapter. Hydrants shall be installed, tested and charged prior to the start of construction, unless otherwise approved by the fire marshal.

(2) All hydrants shall be accessible to the fire department by public or private roads or approved emergency vehicle accesses (fire lanes) meeting the requirements of chapter 16.04 SCC.

(3) Approval of fire hydrant types must be obtained prior to installation from the water purveyor or the fire marshal in the absence of a water purveyor.

(4) All elements of fire hydrant installation including water mains, pipes, valves and related components shall conform to the UFC, National Fire Protection Association (NFPA) standard 24, 1995 edition, and American Water Works Association (AWWA) Standard C502-94.

(5) Standard hydrants shall have not less than five (5) inch main valve openings (MVO) with two (2) two-and-one-half (2-1/2") inch National Hose (N.H.) outlet ports and one (1) four-and-one-half inch (4-1/2") inch N.H. outlet port. When two port hydrants are replaced, they shall be replaced with three (3) port hydrants.

(6) "Storz" type steamer port fittings shall be provided on new hydrants when required by the local fire district.

(7) Hydrants shall stand plumb and be set to the finished grade. The bottom of the lowest outlet of the hydrant shall be no less than 18 inches above the grade. There shall be a 36-inch radius of clear area about the hydrant for the operation of a hydrant wrench on the outlets and the control valve. The pumper port shall face the street, or where the street cannot be clearly identified, the port shall face the most likely route of approach of the fire truck while pumping, as determined by the fire marshal. The hydrant shall be installed within fifteen (15) feet of the street or access roadway.

(8) Hydrants shall be a minimum of 50 feet from a commercial structure to be served and no further than 100 feet from a FDC if present.

(9) The hydrant lateral shall be designed to deliver the required fire flow.

(10) Hydrants shall not be obstructed by structures, fences, the parking of vehicles, or vegetation. Hydrant visibility shall not be impaired within a distance of seventy five (75) feet in any direction of vehicular approach to the hydrant.

(11) Hydrants shall be provided along public and private access roads, and when practical shall be located at street intersections.

(12) Fire hydrant systems shall be maintained in an operative condition at all times and shall be repaired where defective. Additions, repairs, alterations and servicing shall be in accordance with approved standards. Fire hydrant systems shall be subject to such periodic tests as required by the fire marshal.

(13) When any portion of the facility or building protected is in excess of 150 feet from a water supply on a public street, as measured by an approved route around the exterior of the facility or building, on-site fire hydrants and mains capable of supplying the required fire flow shall be provided when required by the fire marshal.

(14) The fire district may, in accordance with an agreement with the water purveyor, test hydrants for flow capability and may color code tops of existing public and private hydrants with proper notification to the purveyor. Blue street reflectors may also be installed to indicate hydrant locations.

For all new hydrant installations, either public or private, the developer shall color code the tops of the hydrant(s) to designate the level of service being provided by that hydrant. Color coding for existing and new hydrants shall be in accordance with the following:

Light Blue	1500 GPM or greater
Green	1000 to 1499 GPM
Orange	500 to 999 GPM
Red	Less than 500 GPM
Black	For drafting use only (hard suction/steamer port)
White	Cross on top of hydrant - for filling tankers only.

In addition to color coding new hydrants the developer shall also install blue street reflectors to indicate hydrant locations. Color coding of new hydrant(s) and the installation of blue street reflectors shall be completed prior to final approval of any development or new construction.

(15) Internal maintenance of public hydrants shall be the responsibility of the recognized water purveyor. Private fire service hydrants and mains shall be protected and maintained by the owners in accordance with NFPA Pamphlet #24.

(16) The water purveyor shall submit documentation to the fire marshal indicating which entity is responsible for proper installation, operation and maintenance of fire protection facilities associated with public water systems. The statement shall also indicate which fire district or utility is responsible for repair and maintenance of fire hydrants in unincorporated Snohomish County.

(17) Vehicles shall not be parked within fifteen feet of a fire hydrant or fire department connection or a fire protection system control valve.

16.36.090 Water Main Specifications. The following requirements shall apply to all water main construction:

(1) **Diameter.** New or replaced water mains providing fire flow shall be a minimum of 6-inches in diameter and be designed to deliver fire flow required by the UFC. All dead end water mains in excess of 50 feet which provide fire flow shall be a minimum 8 inches in diameter.

(2) **Future replacement.** When existing water mains are replaced, replacement mains shall be sized to meet minimum fire flow requirements.

16.36.100 Procedures for compliance.

In addition to other requirements of this chapter, the following are required prior to final approval of activities subject to this chapter:

(1) Water system plans and specifications stamped by a registered professional engineer shall be submitted to the department of planning and development services;

(2) Water system plans shall be approved by the water purveyor, or in the absence of a water purveyor, by the fire marshal;

(3) The approved water system must be installed and placed in service.

16.36.110 Fire department notification.

The fire department shall be notified as soon as practicable when a hydrant or water main is placed out of service and upon restoration of service. The water purveyor shall mark out of service hydrants by bagging or other means approved by the fire department.

16.36.120 Water purveyor authority.

Nothing in this chapter shall be construed to prohibit water purveyors from imposing more stringent requirements for the construction of water mains and fire hydrants.

Section 29. NEW CHAPTER. A **NEW CHAPTER** is added to title 16 of the Snohomish County Code to read:

Chapter 16.50

CONSTRUCTION

Sections:

- 16.50.020 Responsibility of applicant and disclaimer of county liability.**
16.50.030 No additional county duty.

16.50.020 Responsibility of applicant and disclaimer of county liability.

It is the responsibility of the applicant to provide accurate and complete information and plans and for compliance with applicable laws and regulations. Snohomish county is not responsible for the accuracy of information provided or plans submitted to the department of planning and development services for approval. The department of planning and development services, under the provisions of this title, does not guarantee that plan reviews and/or inspections will detect all hazards, design defects or code violations.

16.50.030 No additional county duty.

The administration of this title is for the benefit of the public generally. Nothing in this title shall be construed as being any adoption by the county of any duty not otherwise imposed by law to protect individuals from personal injuries or property damage.

Section 30. Snohomish County Code Section 17.02.140, last amended by Ordinance No. 93-125 on November 23, 1993, is **AMENDED** to read:

17.02.140 Fire code fees.

(1) Annual Fire Inspection Fee. In accordance with SCC 16.04.070, the following schedule of fees in Table A shall be charged for all required inspections under SCC 16.04.060, based upon square footage area of inspected premises and the group classification associated with the use thereof, as defined in Table B:

Table A: Schedule of Fees

Under 1,000 sq. ft.

Group I	\$45.00
Group II	\$75.00
Group III	\$125.00

1,001 - 2,500 sq. ft.

Group I	\$65.00
Group II	\$105.00
Group III	\$165.00

2,501 - 5,000 sq. ft.

Group I	\$95.00
Group II	\$155.00
Group III	\$245.00

5,001 - 100,000 sq. ft.

Group I	\$115.00
Group II	\$185.00
Group III	\$285.00

over 100,000 sq. ft.

Group I	\$115.00 + \$60 per hour actual time spent
Group II	\$185.00 + \$60 per hour actual time spent
Group III	\$285.00 + \$60 per hour actual time spent

Reinspection fee when violations are cited during first reinspection: \$25.00

Additional reinspection fee when violations are not corrected after second reinspection: \$50.00

Table B: Classification of Groups

The following uses are those listed in the "use matrix" contained in SCC 18.32.040. Any use not classified shall be considered a Group II unless designated Group III or Group I by the fire marshal.

The following uses are classified as Group III:

- Amusement facility
- Asphalt bath plant & continuous mix asphalt plant
- Auto repair major
- Boat launch: commercial
- Boat launch: non-commercial
- Body painting studio
- Campground
- Church with a daycare
- Cleaning establishment
- Club

Cold storage
Country club
Day care center
Distillation of alcohol
Distillation of wood, coal, bones or manufacturing of their by-products
Dwelling: multiple family - more than 20 units
Explosives: manufacturing
Explosives: storage
Fairgrounds
Family rehab home
Forge, foundry, blast furnace, or melting of ore
Foster home
Group care facility
Gym
Hospital
Hotel/motel
Institution, educational
Laboratory
Lumber yard
Manufacturing of: acid
Manufacturing of: all other forms of manufacturing not specifically listed
Manufacturing of: animal black/bone black
Manufacturing of: cement or lime
Manufacturing of: chlorine
Manufacturing of: creosote
Manufacturing of: fertilizer
Manufacturing of: glue or gelatin
Manufacturing of: potash
Manufacturing of: pulp
Motor vehicle fuel dispensing station
Motor vehicle & equipment sales
Nursing home
Park, public
Petroleum products & gas storage - bulk
Resort
Restaurant
Retirement apartments
Retirement housing
Rooming & boarding house
Rural industries
Sanitary landfill
Sawmill
School: K-12 & preschool
School: other

Shake & shingle mill
Shooting range
Storage structure over 1,000 sq. ft. on less than three acres
Tar distillation or manufacturing
Tavern
Tire store
Tool sales & rental
Travel trailer court
Ultralight airpark
Woodwaste recycling

The following uses are classified as Group I:

Agriculture
Airport stage 1 utility
Art gallery
Bed and breakfast guesthouse
Bed and breakfast inn
Billboards
Building contractor
Caretakers quarters
Community club
Dams & power plants, associated uses
Dock & boathouse, private, non-commercial
Drug store
Dwelling: multiple family - 20 units or less
Farm stand
Financial institution
Fix-it shop
Fuel & coal yard
Grange hall
Greenhouse, lathhouse, nurseries retail
Greenhouse, lathhouse, nurseries wholesale
Home occupation
Junkyard
Kennel, commercial
Library
Licensed practitioner
Locksmith
Massage parlor
Mini self-storage
Model/house sales office
Mortuary
Museum
Office/general

Public bathhouse
Racetrack
Riding academy
Second hand store
Sludge utilization
Social service center
Specialty store
Storage/retail sales, livestock feed
Swimming pool
Tannery
Television/radio stations
Temporary logging crew quarters
Utility facilities: all other structures
Utility facilities: electromagnetic transmission & receiving facilities
Utility facilities: transmission wires or pipes and supports
Veterinary clinic

(2) Other Permits. The fee for permits required under SCC 16.04.120 shall be \$50.00 per riser system, ~~((or per))~~ fuel storage tank, and alarm system. The fee for a fire inspection for a special event permit shall be \$100.00 during regular hours. Inspections conducted after hours or on weekends shall be \$60.00 an hour for actual time spent.

Section 31. NEW SECTION. A **NEW SECTION** is added to chapter 16.04 of the Snohomish County Code to read:

16.04.60 Subsection 7902.1.7.2.4 Amended

Subsection 7902.1.7.2.4 is hereby amended as follows:

7902.1.7.2.4 Tanks abandoned in place. Tanks abandoned in place shall be abandoned as follows:

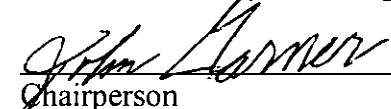
1. Flammable and combustible liquids shall be removed from the tank and connected piping,
2. The suction, inlet, gage, vapor return and vapor lines shall be disconnected,
3. The tank shall be filled completely with an inert solid material approved by the fire marshal.

EXCEPTION: Residential heating oil tanks of 750 gallons (2,819 L) or less, provided, the fill line is permanently capped or plugged, below grade, to prevent refilling of the tank,

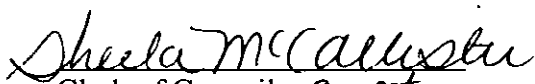
4. Remaining underground piping shall be capped or plugged, and
5. A record of the tank size, location and date of abandonment shall be retained.

PASSED this 15th day of January, 1997.

SNOHOMISH COUNTY COUNCIL
Snohomish County, Washington


Chairperson


ATTEST:


Clerk of Council, *asst*

- APPROVED
 VETOED
 EMERGENCY

DATE: 1/17/97

ATTEST:




COUNTY EXECUTIVE

ROBERT J. DREWEL
County Executive