

ORDINANCE No. 118018

COUNCIL BILL No. 111129

*Law Department*

The City of Seattle--Legisla

AN ORDINANCE relating to and providing for the...  
...by reference to Ordinance 118018.

INDEXED

REPORT OF COMMITTEE

Honorable President:

Your Committee on \_\_\_\_\_

to which was referred the within Council Bill No. \_\_\_\_\_  
report that we have considered the same and respectfully recomme

OK

COMPTROLLER FILE No. \_\_\_\_\_

Introduced:	By:
Referred:	To:
Referred:	To:
Referred:	To:
Reported:	Second Reading:
Third Reading: FEB 20 1996	Signed: FEB 20 1996
Presented to Mayor: FEB 20 1996	Approved: FEB 22 1996
Returned to City Clerk: FEB 7 1996	Published: <i>Full</i>
Vetoed by Mayor:	Veto Published:
Passed over Veto:	Veto Sustained:

*Full Council vote 6-0*

Committee Chair

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ORDINANCE 118018

AN ORDINANCE relating to and regulating fire and explosion hazards; and amending the Uniform Fire Code, 1994 Edition, as adopted by reference by Ordinance 118019

BE IT ORDAINED BY THE CITY OF SEATTLE AS FOLLOWS:

Section 1. This ordinance shall be known and cited as the Seattle Fire Code Supplement. It shall be codified, printed and bound with the Uniform Fire Code, 1994 Edition, as adopted by reference by Ordinance 118019.

Section 2. Subsection 101.2 of the Uniform Fire Code is amended to read as follows:

**101.2 Scope.** This code prescribes regulations consistent with nationally recognized good practice for the safeguarding to a reasonable degree of life and property from the hazards of fire and explosion arising from the storage, handling and use of hazardous substances, materials and devices, and from conditions hazardous to life or property in the use or occupancy of buildings or premises.

The provisions of this code shall supplement any and all laws relating to firesafety and shall apply to all persons without restriction, unless specifically exempted.

Text entitled "Point of Information" or "Code Interpretation" in the Seattle Fire Code shall be guidance only and shall not have the force of law.

Section 3. Subsection 101.4 of the Uniform Fire Code is amended to read as follows:

**101.4 ((Supplemental)) Rules and Regulations.** The Chief ~~((with the approval of the administrator.))~~ is authorized to make and enforce such rules and regulations for the prevention and control of fires and fire hazards as may be necessary from time to time to carry out the intent of this Code. ~~((A minimum of one certified copy or the number required by governing law of such rules and regulations shall be filed with the clerk of the jurisdiction and shall be in effect immediately thereafter and additional copies shall be kept in the office of the fire department for distribution to the public.))~~ Three copies of such rules and regulations shall be filed with the City

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Clerk.

Administrative rules of general applicability which require public compliance and product approvals shall be published as provided for in Seattle Municipal Code Chapter 5.02. Sections 103.1.2, 103.1.3 and 103.1.4 of the Seattle Fire Code shall apply to such rules.

The Chief may publish: technical, advisory, and informational material not requiring general public compliance, regulations applicable to an individual permit issued under this Code and regulations applicable to members of the Fire Department in such form as she/he may establish.

Section 4. Subsection 101.5 of the Uniform Fire Code is hereby repealed. Section 101 of the Uniform Fire Code is amended by adding thereto a new subsection 101.5 to read as follows:

**101.5 Liability For Damages.** This ordinance is enacted as an exercise of the police power of the City of Seattle to protect and preserve the public peace, health, safety and welfare, and its provisions shall be liberally construed for the accomplishment of these purposes.

It is expressly the purpose of this ordinance to provide for and promote the health, safety and welfare of the general public, and not to create or otherwise establish or designate any particular class or group of persons who will or should be especially protected or benefitted by the terms of this ordinance.

It is the specific intent of this ordinance to place the obligation of complying with its requirements upon the owner or occupier of premises within its scope, and no provision nor term used in this ordinance is intended to impose any duty whatsoever upon the City or any of its officers or employees, for whom the implementation or enforcement of this ordinance shall be discretionary and not mandatory.

Nothing contained in this ordinance is intended to be nor shall be construed to create or form the basis for any liability on the part of the City, or its officers, employees or agents, for any injury or damage resulting from the failure of the owner or occupier of premises to comply with the provisions of this ordinance, or by reason or in consequence of any act or omission in connection

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2 with the implementation or enforcement of this ordinance on the part of the City by its officers,  
3 employees or agents.

4  
5 Any suit brought against the City, or its officers, employees or agents, because of such act or  
6 omission performed in the enforcement of any provision of such codes or other pertinent laws or  
7 ordinances implemented through the enforcement of this Code or enforced by the code enforcement  
8 agency shall be defended by this jurisdiction until final termination of such proceedings, and any  
9 judgment resulting therefrom shall be assumed by this jurisdiction.

10  
11 Limited public funds are available for the implementation and enforcement of the codes adopted by  
12 this ordinance. Permit application reviews and inspections conducted pursuant to this ordinance are  
13 spot checks designed to foster and encourage compliance and are not guarantees or assurances that  
14 permits or work undertaken pursuant to permit issuance complies with all applicable codes.

15  
16 Section 5. Subsection 101.6 of the Uniform Fire Code is amended to read as follows:

17 **101.6 Conflicting Provisions.** Where there is a conflict between a general requirement and a  
18 specific requirement, the specific requirement shall be ~~((applicable-))~~ applied, unless the Chief  
19 determines that the general requirement provides adequate fire and life safety. A request for such a  
20 determination by the Chief shall be made in writing to the Chief. The Chief shall provide a written  
21 response, stating the Chief's determination and giving the reason for the determination, within a  
22 reasonable period of time. A record of such determinations shall be kept by the Fire Marshal's  
23 Office and made available to the public upon written request. Section 103.1.4, Appeals, shall not  
24 apply to such determinations by the Chief.

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Section 7. Subsection 103.1.4 of the Uniform Fire Code is hereby repealed. Section 103 of the Uniform Fire Code is amended by adding thereto a new subsection 103.1.4 to read as follows:

**103.1.4 Appeals.** Appeals from decisions or actions pertaining to the application and interpretation of this Code shall be addressed to the Fire Chief. If not resolved with the Chief, the appellant may submit a written request to the Fire Chief for a review by the Fire Code Appeals Board in accordance with all applicable by-laws, rules, regulations and ordinances. The results of this appeal will be advisory only, in accordance with City of Seattle Ordinance 117717.

Section 8. Subsection 103.1.5 of the Uniform Fire Code is hereby repealed.

Section 9. Subsection 103.2.1.1, item 7 of the Uniform Fire Code is amended to read as follows:

**103.2.1.1 General.** The Chief is authorized to administer and enforce this code. Under the chief's direction, the fire department is authorized to enforce all ordinances of the jurisdiction pertaining to:

1. The prevention of fires,
2. The suppression or extinguishment of dangerous or hazardous fires,
3. The storage, use and handling of hazardous materials,
4. The installation and maintenance of automatic, manual and other private fire alarm systems and fire-extinguishing equipment,
5. The maintenance and regulation of fire escapes,
6. The maintenance of fire protection and the elimination of fire hazards on land and in buildings, structures and other property, including those under construction,
7. ~~((The maintenance of exits, and))~~ The means and adequacy of each exit in the event of fire, from factories, schools, hotels, lodging houses, asylums, hospitals, churches, halls, theaters, amphitheaters and all other places in which people work, live or congregate from time to time for any purpose.
8. The investigation of the cause, origin and circumstances of fire and unauthorized releases of hazardous materials.

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For authority related to control and investigation of emergency scenes, see Section 104.

Section 10. Section 103.3 of the Uniform Fire Code is amended by adding thereto a new subsection 103.3.5 to read as follows:

**103.3.5 Special Inspections.** The Chief is authorized to appoint qualified persons or agencies having special technical skills as special inspectors or plan reviewers and accept their inspection, plan review and evaluation of specialized fire protection equipment.

The Chief is authorized to accept inspections performed by other jurisdictions and honor permits and certificates issued by other jurisdictions for activities regulated by this Code, upon presentation to the Chief of satisfactory evidence that such inspections, permits and certificates are substantially in accord with the fire safety requirements of this Code.

Section 11. Subsection 103.4.4 of the Uniform Fire Code is hereby repealed. Section 103 of the Uniform Fire Code is amended by adding thereto a new subsection 103.4.4 to read as follows:

**103.4.4 Citations.** ~~((Persons))~~ Any person operating or maintaining any occupancy, premises or vehicle subject to this Code who ~~((allow a))~~ shall permit any fire hazard to exist on premises under his or her control or who shall fail to take immediate action to abate a fire hazard ~~((on such occupancy, premises or vehicle))~~ when ordered or notified to do so by the Chief or his/her duly authorized representative, shall be guilty of a ~~((misdemeanor-))~~ crime as provided for in Chapter 12A of the Seattle Municipal Code.

Section 12. Subsection 103.4.5 of the Uniform Fire Code is hereby repealed. Section 103 of the Uniform Fire Code is amended by adding thereto a new subsection 103.4.5 to read as follows:

**103.4.5 Unsafe buildings.** All buildings or structures which are structurally unsafe or not provided with adequate egress, or which constitute a fire hazard, or are otherwise dangerous to human life, or which in relation to existing use constitute a hazard to safety or health, or public

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2 welfare, by reason of inadequate maintenance, dilapidation, obsolescence, fire hazard, disaster  
3 damage or abandonment, as specified in this Code or other effective ordinances are, for the purpose  
4 of this section, unsafe buildings. All such unsafe buildings are hereby declared to be public  
5 nuisances and shall be brought into compliance as required by Ordinance, by the owner, upon notice  
6 from the Chief.

7 Whenever the Chief determines that a building is unsafe the Chief shall:

- 8 1. Order such corrections as are necessary.  
9 2. Provide an information copy of such order to the Building Official.

10 When the Chief determines that an unsafe building should be posted to prohibit entry or continued  
11 use, he/she shall post a notice on the principal entrance(s) of such building, describing the unsafe  
12 condition(s) and the specific Fire Code section(s) deemed to be in violation. The owner of a  
13 building so posted shall prohibit continued use of the premises. Only the Chief shall remove a  
14 notice posted under this Code.

15 The Chief shall also order the termination or restoration of utilities and/or the temporary closure of  
16 streets when such action is necessary to reduce the life hazard or fire fighting hazard of an unsafe  
17 building.

18 The Chief may seek an order of the court requiring vacation of an unsafe building until corrections  
19 are made.  
20

21 The Chief shall seize and remove hazardous materials or take such other action as may be necessary  
22 to correct an imminent hazard, when the owner fails or is unable to effect immediate correction.  
23

24 Whenever in the opinion of the Chief, it is essential for public safety, the Chief may order the  
25 owner or responsible party to establish additional safeguards. Such safeguards may include use of  
26 standby fire fighters, standby paramedics, special inspectors, security personnel, additional fire  
27 protection equipment and similar measures.  
28

Such individuals shall be on duty at such times as the Chief may require and shall comply with the

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2 orders of the Chief. Such individuals shall inspect the required fire appliances provided to see that  
3 they are in proper place and in good working order, and shall keep diligent watch for fires during  
4 the time such place is occupied and take prompt measures for extinguishment of fires that may  
5 occur. Such individuals shall not be required or permitted, while on duty, to perform any other  
6 duties than those herein specified.

7  
8 The Chief may order Fire Department personnel to duty if the owner or responsible party refuses or  
9 is unable to establish additional safeguards when directed by the Chief. The Chief shall issue an  
10 invoice to the owner to recover actual costs for labor. Labor costs shall be based on the rates of  
11 pay as determined by the collective bargaining agreement adopted by ordinance.

12  
13 Section 13. Section 103 of the Uniform Fire Code is amended by adding thereto new subsections  
14 103.4.7 and 103.4.8 respectively to read as follows:

15  
16 **103.4.7 Prohibition.** The Chief may prohibit the use, display, or sale of any device, material,  
17 thing or object which is designed to be used in such a manner as to violate any provisions of this  
18 Code, or where the use or sale of such constitutes a distinct hazard to life or property.

19  
20 Any materials shown by test to have a life hazard greater than that indicated and controlled by  
21 Building Code interior finish regulations or Fire Code decorative material regulations shall be  
22 prohibited or shall be installed or used with such additional fire safety features as are necessary to  
23 substantially reduce the life hazard.

24  
25 **103.4.8 Failure to correct violations.** Failure to correct violations of fire prevention laws and  
26 ordinances within the time established on the order or notice will result in an inspection fee of one  
27 hundred dollars (\$100.00). Such fee will be imposed for each inspection performed by the Fire  
28 Marshal or his designee.

**Exceptions:** 1. The Chief shall waive the inspection fee if the original order or notice is  
determined to be invalid.

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2 2. The Chief may waive the inspection fee when mitigating circumstances beyond the  
3 responsible party's control exist such as conflicting enforcement by other jurisdictions,  
4 conditions caused by third parties or where alternate materials, methods or designs are under  
5 review to meet the intent of the Seattle Fire Code.  
6

7 Section 14. Subsection 104.1.2 of the Uniform Fire Code is hereby repealed. Section 104 of the  
8 Uniform Fire Code is amended by adding thereto a new subsection 104.1.2 to read as follows:  
9

10 **104.1.2 Interference with the Fire Department.** Any person who obstructs the operation of the  
11 Fire Department in connection with extinguishing any fire, or in the performance of other duties  
12 required by this Code, is guilty of a crime under provisions of Chapter 12A of the Seattle Municipal  
13 Code.  
14

15 Section 15. Subsection 105.7 of the Uniform Fire Code is hereby repealed. Section 105 of the  
16 Uniform Fire Code is amended by adding thereto new subsections 105.7, 105.7.1 and 105.7.2  
17 respectively to read as follows:  
18

19 **105.7 Revocation of Permits and Certificates.**

20 **105.7.1 Non-emergency Revocations.** The Fire Chief may revoke, suspend or refuse to renew  
21 any permit or certificate upon evidence submitted to him/her that any permit condition has changed  
22 so that continued operation would create an unwarranted safety risk. Such conditions include, but  
23 are not limited to:

- 24 1. Use by a person other than the person to whom the permit or certificate was issued.  
25 2. Change of location from the location specified on the permit.  
26 3. Violation of any of the conditions and/or limitations specified in the permit or certificate.  
27 4. Permit holder's failure, refusal or neglect to comply with any order or notice duly served  
28 upon him/her under the provisions of this Code within the time provided in such order or  
notice.  
5. Any false statement or misrepresentation of a material fact in the application or plan  
specifications on which the granting of the permit or certificate was based.

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2 The permit or certificate holder shall be notified in writing no later than five (5) business days prior  
3 to the revocation, suspension or refusal to renew such permit or certificate. The permit or  
4 certificate holder may request in writing a hearing before the Chief for reconsideration of the  
5 decision to revoke, suspend or deny renewal. The request shall be filed with the Chief by five  
6 o'clock (5:00 p.m.) of the second business day following service of the notice. The hearing shall  
7 be held no later than one (1) business day from receipt of a written request. The Chief shall issue a  
8 final decision, in writing, sustaining, modifying or withdrawing the initial decision to revoke,  
9 suspend or refuse to renew the certificate or registration no later than the next business day  
10 following such hearing.

11  
12 **105.7.2 Emergency Revocations.** The Fire Chief may revoke, suspend or refuse to renew a  
13 permit or certificate in emergency situations when an imminent fire hazard exists, without providing  
14 prior notice to the permit or certificate holder. An emergency situation will be declared where the  
15 Chief finds unforeseen circumstances that call for immediate action and the failure to act may cause  
16 imminent injury, illness or harm to humans, domestic animals, livestock, wildlife, or may be  
17 dangerous or injurious to the immediate or neighboring property, lands, or premises.

18  
19 Where such emergency is found to exist, all certificates and permits shall be surrendered to the  
20 Chief or his/her authorized representative upon demand. Those activities sanctioned by certificates  
21 and permits will be suspended until the Chief finds the emergency no longer exists.

22  
23 Persons surrendering said certificates and/or permits may appeal the Chief's action by filing a notice  
24 of appeal to the Chief by five o'clock (5:00 p.m.) of the next business day following such  
25 revocation. The hearing with the Chief shall be no later than one (1) working day from the receipt  
26 of such written appeal.

27  
28 The Chief shall issue a final decision in writing, sustaining, modifying or withdrawing the initial  
decision to revoke the certificate or permit no later than the next business day following such  
hearing. Further appeals shall be in accordance with Section 103.1.4 of this Code.

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Section 16. The first paragraph in subsection 105.8 of the Uniform Fire Code is amended to read as follows:

**105.8 Permits Required.** ~~((A permit shall be obtained from the bureau of fire prevention prior to engaging in the following activities, operations, practices or functions:))~~ It shall be unlawful for any person, firm or corporation to use a building or premises or engage in any activities for which a permit is required by this Code, without first having obtained such permit. Permits are issued by the Fire Marshal's Office. The Chief may condition any permit, increasing or decreasing the scope of activity, and/or specifying fire safety provisions in addition to those established by this Code, where he or she deems such conditions are necessary to provide reasonable public safety.

A permit shall be obtained from the Fire Department to engage in the following activities, operations, practices or functions:

Section 17. Subsection 105.8, item c.6 of the Uniform Fire Code is amended to read as follows:

\* \* \* \*

**c.6. Combustible material storage.** To store more than 2,500 cubic feet (70.8 m<sup>3</sup>) gross volume of combustible empty packing cases, boxes, barrels or similar containers, or rubber or cork, or other similarly combustible material. See Article 11.

**CODE INTERPRETATION:**

The term "other similarly combustible material" shall include materials classified as Class IV or as high-hazard commodities under Section 8101.4 of this Code.

\* \* \* \*

Section 18. Subsection 105.8, item f.3 of the Uniform Fire Code is hereby repealed. Section 105 of the Uniform Fire Code is amended by adding thereto a new subsection 105.8, item f.3 to read as follows:

\* \* \* \*

**f.3. Flammable or combustible liquids and tanks.** See Article 79.

1. To store, handle or use Class I liquids in excess of 5 gallons in a building or in excess of 10

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gallons outside of any building (including heated liquids of higher flash point, such as asphalt).

2. To store, handle or use Class II and III-A liquids in excess of 25 gallons inside a building or in excess of 60 gallons outside of any building, except for fuel oil used in connection with oil-burning equipment.
3. To store, handle or use Class III-B liquids in excess of 1,000 gallons.
4. To install, alter or operate equipment in connection with the storage, handling, use or sale of flammable or combustible liquids regulated under Article 79.
5. To install, alter, remove, abandon, place temporarily out of service or otherwise dispose of any flammable or combustible liquid tank. See Article 79.
6. To change the type of contents stored in any flammable or combustible liquid tank to a material other than that for which the tank was designed and constructed.
7. Operation of an automotive self-service station or marine service station. See Article 52.
8. To operate mobile or portable refueling equipment, including marine craft. 9.  
To remove Class I or Class II liquids from an underground storage tank used for fueling motor vehicles by any means other than the approved, stationary on-site pumps normally used for dispensing purposes.
10. To operate tank vehicles in which flammable and combustible liquids are transported.

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- EXCEPTIONS:** 1. The storage or use of liquids in the fuel tanks of motor vehicles, aircraft, motorboats, mobile power plants, mobile heating plants or portable motor boat tanks of six (6) gallons or less individual capacity and twelve (12) gallons or less aggregate capacity.
2. Dispensing flammable or combustible liquids from underground tanks for motor vehicle fueling at full-service stations open to the public or at private stations using approved dispensing equipment.
3. Transportation of liquids in factory sealed containers or in tanks excepted in Exception #1.
4. The incidental storage or use of paints, oils, varnishes, or similar mixtures when stored for maintenance, painting or similar purposes in quantities permitted by this Code for a period of not more than 30 days.

\* \* \* \*

Section 19. Section 105 of the Uniform Fire Code is amended by adding thereto a new subsection 105.8, item h.4 to read as follows:

\* \* \* \*

**h.4. Helicopter lifts.** To move heavy equipment via helicopter over populated areas.

\* \* \* \*

Section 20. Section 105 of the Uniform Fire Code is amended by adding thereto exceptions to Subsection 105.8, Item m 3 to read as follows:

\* \* \* \*

**m.3. Motor vehicle fuel-dispensing stations.** To dispense flammable or combustible liquids, liquefied petroleum gases or compressed natural gas at motor vehicle fuel-dispensing stations. See Article 52.

**EXCEPTIONS:** 1. Dispensing flammable or combustible liquids from underground tanks for motor vehicle fueling at exclusively full-service stations open to the public.

2. At private stations using approved dispensing equipment from underground tanks.

\* \* \* \*

Section 21. Subsection 105.8, item p.2 of the Uniform Fire Code is amended to read as follows:

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p.2. **Places of assembly.** To operate a place of assembly with an occupant load of 100 or more as defined in Article 2. See Article 25.

\* \* \* \*

Section 22. Subsection 105.8, item r.2 of the Uniform Fire Code is amended by adding thereto exceptions to read as follows:

\* \* \* \*

r.2. **Refrigeration equipment.** To install or operate a mechanical refrigeration unit or system ((regulated by Article 63)). See Article 63.

EXCEPTIONS:

1. Existing systems under permit by the Department of Construction and Land Use.
2. All units and systems exempted by Section 6301.

\* \* \* \*

Section 23. Subsection 105.8, item w.1 of the Uniform Fire Code is hereby repealed. Section 105 of the Uniform Fire Code is amended by adding thereto a new subsection 105.8, item w.1 to read as follows:

\* \* \* \*

w.1. **Welding and cutting operations.** To conduct welding or cutting operations. See Article 49, Section 4901.3.

\* \* \* \*

Section 24. Table 105-B -- Permit Amounts For Cryogenes of the Uniform Fire Code is amended to read as follows:

TABLE 105-B--PERMIT AMOUNTS FOR CRYOGENS<sup>1</sup>

TYPE OF CRYOGEN	INSIDE BUILDING (gallons)	OUTSIDE BUILDING (gallons)
	x 3.785 for L	
Corrosive	Over 1	Over 1
Flammable	Over 1	60
Highly toxic	Over 1	Over 1
Nonflammable	60	500
Oxidizer (includes oxygen)	((50))10 (use), 45 (storage)	50

<sup>1</sup>See Article 75

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Section 25. Article 1 of the Uniform Fire Code is amended by adding thereto new sections 106, 107 and 108 respectively to read as follows:

**SECTION 106 -- CERTIFICATES**

**106.1 Definition.** A certificate is a statement that a person has demonstrated knowledge and competence in the performance of an activity regulated by this Code. All applications for a certificate required by this Code shall be made to the Chief in such form and detail as he may prescribe. Certificate fees are established in the Seattle Municipal Code to recover the City's cost in testing and issuing a certificate. Any person performing work for which a certificate is required under this Code shall have such certificate in their possession at the work site.

**SECTION 107 -- TEMPORARY PERMITS**

**107.1 Issuance.** The Chief may issue temporary permits establishing fire safety controls for:

1. An activity not specifically regulated, but where regulatory safeguards are necessary because of unusual circumstances.
2. Interim operation of a regulated activity at reduced scope and/or with temporary fire safeguards until permanent fire prevention features are provided.
3. Time-limited special situations where use of a permit to specify fire prevention controls is necessary in the judgement of the Chief.
4. Pier crossing permits (transportation, only--no storage) for hazardous materials.

**SECTION 108 -- LIABILITY INSURANCE**

**108.1 Required.** Where liability insurance is required by any section of this Code or as a permit condition for any controlled hazardous activity, the applicant shall file with the Chief a "Certificate of Insurance." The applicant's policy shall evidence a "Comprehensive General Liability" (including automobile coverage) insurance limit of \$2 million (\$2,000,000), combined single limit per occurrence and annual aggregate, no deductible and naming the City of Seattle as an additional insured. The Chief may increase or decrease these amounts.

In those instances where this Code requires as a condition of issuing a permit that the applicant for the license shall provide insurance, the purpose of the requirement is to insure that members of the public and the City will be compensated for losses caused by personal injury or property damage

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resulting from the negligent acts of the licensees or their agents or employees.

Whenever the issuance of a permit is conditioned upon obtaining a policy or policies of public liability insurance by the applicant for such license, the policy:

1. Shall be issued by a company or companies authorized to do business as an insurer in Washington State pursuant to the provisions of R.C.W. Title 48 as now or hereafter amended;
2. Shall contain, by endorsement or otherwise, the following recital:  
"This policy is issued pursuant to Section 108 of the Fire Code (Ordinance No. \_\_\_\_\_, as amended), of the City of Seattle for the purpose of complying with the conditions and requirements of the Code. Any exception, limitation, provision or omission in this policy (including all other endorsements thereto) in conflict with such condition or requirement is void. This policy shall be continuous until cancelled and terminable only on at least ten (10) days written notice to the Fire Chief."
3. May be approved as to sufficiency and form by the City Attorney and/or the City Risk Manager at the request of the Chief; and
4. Shall be furnished to the Chief for filing with the City Clerk.

Section 26. Section 203 of the Uniform Fire Code is amended by adding thereto a new definition of BASEMENT and BUREAU OF FIRE PREVENTION to read as follows:

\* \* \* \*

BASEMENT is any floor below the first story in a building (~~except that a floor level in a building having only one floor level shall be classified as a basement unless such floor level qualifies as a first story as defined in the Building Code~~) and shall also include "stories, basement-like" which are partially below grade or otherwise enclosed and where the Fire Chief determines that egress or emergency access is restricted or that flammable vapors may concentrate in such manner that basement regulations shall apply.

\* \* \* \*

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**BUREAU OF FIRE PREVENTION** is the ((fire-prevention-bureau-of-the-jurisdiction)) Seattle Fire Department Fire Marshal's Office.

Section 27. Section 204 of the Uniform Fire Code is amended by adding thereto new definitions of **CENTRAL STATION, CENTRAL STATION FIRE ALARM SYSTEM, CENTRAL STATION SERVICE** and **CERTIFICATION** respectively to read as follows:

\* \* \* \*

**CENTRAL STATION** shall mean a supervising station that is listed for central station service.

**CENTRAL STATION FIRE ALARM SYSTEM** shall mean a system or group of systems in which the operations of circuits and devices are transmitted automatically to, recorded in, maintained by, and supervised from a central station having competent and experienced servers and operators who, upon receipt of a signal, take such action as required by this code. Such service is to be controlled and operated by a person, firm, or corporation whose business is the furnishing, maintaining, or monitoring of supervised fire alarm systems.

**CENTRAL STATION SERVICE** shall mean the use of a system or a group of systems in which the operations of circuits and devices at a protected property are signaled to, recorded in, and supervised from a central station having competent and experienced operators who, upon receipt of a signal, take such action as required by this code. Related activities at the protected property such as equipment installation, inspection, testing, maintenance, and runner service are the responsibility of the central station or a listed fire alarm service - local company. Central station service is controlled and operated by a person, firm, or corporation whose business is the furnishing of such contracted services or whose properties are the protected premises.

\* \* \* \*

**CERTIFICATION** shall mean a complete record of tests and examination procedures, including problems found and corrections made.

Section 28. Section 207 of the Uniform Fire Code is amended by adding thereto new definitions to read as follows:

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\* \* \* \*

**FALSE ALARM REPORTING, MALICIOUS.** A person is guilty of false alarm reporting when, with knowledge that the information reported, conveyed, or circulated is false, s/he initiates or circulates a false report or warning of an alleged or impending occurrence of a fire, explosion, crime, catastrophe, or emergency knowing that such false report is likely to cause evacuation of a building, place of assembly, or transportation facility, or to cause substantial public inconvenience or alarm.

\* \* \* \*

**FIRE DETECTION SYSTEM** is a system which uses heat, smoke or other approved devices for detection and is monitored by an approved central station.

**FIRE DISTRICT** shall consist of that part of the city within the boundary described in Section 511 of the Seattle Building Code. See Appendix VI-D.

Section 29. Section 216, **OCCUPANCY CLASSIFICATION**, first paragraph of the Uniform Fire Code is amended to read as follows:

**OCCUPANCY CLASSIFICATION.** For the purpose of this code, certain occupancies are defined as follows:

...Refer to the Seattle Building Code for additional occupancy definitions.

Section 30. Section 216, **OCCUPANCY CLASSIFICATION** of the Uniform Fire Code is amended by revising **Division 7** under **Group H Occupancies** to read as follows:

**Division 7.** Occupancies having quantities of materials in excess of those listed in Table 8001.13-B that are health hazards, including:

1. Corrosives.
2. Toxic and highly toxic materials.

~~((3- Irritants-))~~

~~((4- Sensitizers-))~~

~~((5- Other health hazards-))~~

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2 Section 31. Section 220 of the Uniform Fire Code is amended by adding thereto a new definition of  
3 **SOLVENT DISTILLATION UNIT** to read as follows:

4 \* \* \* \*

5 SOLVENT DISTILLATION UNIT shall mean an appliance that receives contaminated flammable  
6 or combustible solvents and distills the contents to remove contaminants and recover the solvent(s).

7  
8 Section 32. Subsection 1001.5.1 of the Uniform Fire Code is hereby repealed. Section 1001 of the  
9 Uniform Fire Code is amended by adding thereto a new subsection 1001.5.1 to read as follows:

10 **1001.5.1 General.** Sprinkler systems, fire hydrant systems, standpipe systems, fire alarm systems,  
11 portable fire extinguishers, smoke and heat ventilators, smoke-removal systems and other fire-  
12 protective or extinguishing systems or appliances shall be maintained in an operative condition at all  
13 times and shall be replaced or repaired where defective. Fire-protection or extinguishing systems  
14 coverage, spacing and specifications and fire alarm systems shall be maintained in accordance with  
15 Article 10 and recognized standards at all times. Such systems shall be extended, altered or  
16 augmented as necessary to maintain and continue protection whenever any building so equipped is  
17 altered, remodeled or added to. Additions, repairs, alterations and servicing shall be in accordance  
18 with approved standards.

19  
20 Maintenance and periodic testing are the owner's responsibility, or the responsibility of such other  
21 person as may be designated in a lease of the premises, and are separate from Fire Department  
22 inspections.

23 Maintenance testing shall be performed in accordance with this code and Administrative Rulings  
24 published by the Chief.

25  
26 Where certified inspection, testing, or qualification of fire protection equipment is required by  
27 nationally recognized standards, laws, ordinances, or administrative rules, the Chief shall require  
28 that the person, firm or corporation performing such work have a certificate from the Fire  
Department. See Appendix III-B.

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Section 33. Subsection 1003.2 of the Uniform Fire Code is amended to read as follows:

**1003.2 Required Installations.** An automatic fire extinguishing system shall be installed when required by Building Code Section 904 (see Appendix VI-D).

For provisions on special hazards and hazardous materials see Articles 45, 79, 80, 81 and 88.

Additional automatic sprinkler systems may be required for:

<u>Area increase</u>	<u>Building Code</u>	<u>Sec. 505</u>
<u>Height increase</u>	<u>Building Code</u>	<u>Sec. 506</u>
<u>Fire Resistive Substitution</u>	<u>Building Code</u>	<u>Sec. 508</u>
<u>Atria</u>	<u>Building Code</u>	<u>Sec. 402</u>
<u>High-rise</u>	<u>Building Code</u>	<u>Sec. 403</u>
<u>Exiting</u>	<u>Housing and Building Maintenance Code</u>	
<u>Fire Dept. access</u>	<u>Fire Code</u>	<u>Section 902</u>
<u>Retroactive Ordinance</u>	<u>Fire Code</u>	<u>Articles 190-193</u>

**POINT OF INFORMATION:**

Requirements concerning automatic fire extinguishing system installations and exit lights are drawn from the Seattle Building Code. Building Code text replaces Fire Code text in those instances.

Section 34. Subsection 1003.3.1 of the Uniform Fire Code is amended by adding thereto a new subsection 1003.3.1.1 to read as follows:

**1003.3.1.1 Additional requirements.** Automatic sprinkler water-flow alarms installed after the effective date of this code in occupancies requiring a fire alarm shall be connected to the alarm system.

Range hood fire suppression, approved extinguishing systems and pre-action sprinkler systems installed after the effective date of this code shall be connected to the building fire alarm system to provide an alarm when the system discharges.

Equipment to be installed in areas subject to freezing shall be approved for the temperature anticipated.

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Section 35. Subsection 1004.3 of the Uniform Fire Code is hereby repealed. Section 1004 of the Uniform Fire Code is amended by adding thereto a new subsection 1004.3 to read as follows:

**1004.3 Location of Class I Standpipe Hose Connections.** There shall be a Class I standpipe outlet connected at every floor-level landing of every required stairway above or below grade and on each side of the wall adjacent to the exit opening of a horizontal exit. Outlets at stairways shall be located within the exit enclosure or, in the case of pressurized enclosures, within the vestibule or exterior balcony, giving access to the stairway.

Risers and laterals of Class I standpipe systems not located within an enclosed stairway or smokeproof enclosure shall be protected by a degree of fire resistance equal to that required for vertical enclosures in the building in which they are located.

**EXCEPTION:** In buildings equipped with an approved automatic sprinkler system, risers and laterals which are not located within an enclosed stairway or smokeproof enclosure, need not be enclosed within fire-resistive construction.

There shall be at least one two-way outlet above the roof line when the roof has a slope of less than 4 inches vertical in 12 inches horizontal.

Roof outlets within 10 feet of any roof edge skylight or other opening shall be protected by a 42 inch high guardrail or parapet at the opening.

In buildings where more than one standpipe is provided, the standpipes shall be interconnected at the bottom.

See Table 1004-A and Seattle Building Code Section 904.5 for standard code alternates.

Section 36. Subsection 1004.4 of the Uniform Fire Code is hereby repealed. Section 1004 of the

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Uniform Fire Code is amended by adding thereto a new subsection 1004.4 to read as follows:

**1004.4 Location of Class II Standpipe Hose Connections.** Class II standpipe outlets shall be accessible and shall be located so that all portions of the building are served by hose stations containing 100 feet of hose. The hose nozzle shall extend into the most remote room, vehicle or similar enclosure served.

Group A, Divisions 1 and 2.1 Occupancies with occupant loads of more than 1,000 shall have outlets located on each side of any stage, on each side of the rear of the auditorium and on each side of the balcony.

Fire-resistant protection of risers and laterals of Class II standpipe systems is not required.

Section 37. Table No. 1004-A - STANDPIPE REQUIRED SYSTEMS of the Uniform Fire Code is hereby repealed. Section 1004 of the Uniform Fire Code is amended by adding thereto a new Table No. 1004-A to read as follows:

**TABLE 1004-A---STANDPIPE REQUIRED SYSTEMS**

OCCUPANCY <sup>13</sup>	NONSPRINKLERED BUILDING <sup>1</sup>		SPRINKLERED BUILDING <sup>2,3</sup>	
	Standpipe Class	Hose Requirement	Standpipe Class	Hose Requirement
1. Occupancies exceeding 75 ft. in height <sup>10</sup>	III <sup>8,9</sup>	Yes <sup>5</sup>	I <sup>8,9</sup>	No
2. Occupancies 4 stories or more but less than 75 ft. in height, except Group R, Division 3 <sup>7</sup>	[I <sup>8,9,11</sup> , and II <sup>4</sup> ] (or III <sup>8,9</sup> )	Yes <sup>5</sup>	I <sup>8,9,11</sup> (or III <sup>8,9</sup> )	No
3. Group A Occupancies with occupant load exceeding 1,000 <sup>6</sup>	II	Yes	No requirement	No
4. Group A, Division 2.1 Occupancies over 5,000 square feet in area used for exhibition	II	Yes	II	Yes

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5. Groups I; H; B; S; M; F, Division 1 Occupancies less than 4 stories in height but greater than 20,000 square feet per floor <sup>7, 12</sup>	II <sup>4</sup>	Yes	No requirement <sup>12</sup>	No <sup>12</sup>
6. Stages more than 1,000 square feet in area	II	Yes	II	Yes

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1 Except as otherwise specified in Item 4 of this table, Class II standpipes need not be provided in basements having an automatic fire extinguishing system throughout.

2 The standpipe system may be combined with the automatic sprinkler system.

3 Portions of otherwise sprinklered buildings which are not protected by automatic sprinklers shall have Class II standpipes installed as required for the unsprinklered portions.

4 In open structures where Class II standpipes may be damaged by freezing, the building official may authorize the use of Class I standpipes which are located as required for Class II standpipes.

5 Hose is required for 1-1/2 inch outlets only.

6 Class II standpipes need not be provided in assembly areas used solely for worship.

7 For the purposes of this table, occupied roofs of parking structures shall be considered an additional story. In parking structures, a tier is a story.

8 Fire department outlets on Class I and III standpipes need not be provided at grade level or floors below grade when all portions of such floor are within 150 feet (45,720 mm) hose travel distance of grade level exterior doors fronting on streets or yards usable by fire department apparatus.

9 Class I and III standpipes shall have two 2-1/2 inch (63.5 mm) roof outlets. The outlets shall be a minimum of 10 feet (3,045 mm) from the roof edge, skylight, light well or other opening, unless protected by a 42-inch (1,067 mm) high guardrail or equivalent.

10 For additional requirements, see Section 403 of the Seattle Building Code.

11 The Class I standpipe may be omitted in Group B and Group R, Division 1 Occupancies when primary fire department vehicle access is provided on at least one side within 3 stories of the roof (not over 35 feet (10,668 mm) total height).

12 See Article 81 of the Fire Code for special requirements for high-piled combustible storage.

13 See Section 413.8 for requirements for standpipes on waterfront structures.

Section 38. Section 1007 of the Uniform Fire Code is hereby repealed. Article 10 of the Uniform Fire Code is amended by adding thereto a new section 1007 to read as follows:

**Section 1007 -- FIRE ALARM SYSTEMS**

**1007.1 General.**

**1007.1.1 Applicability.** Installation and maintenance of fire alarm systems shall be in accordance with Section 1007.

**1007.1.2 Retroactive requirements.** Section 1007 is retroactive when an existing building has a substantial remodel, addition or change of use as defined in the Building Code or a fire alarm panel is replaced.

Audibility standards to 15 dB/ above ambient, 60 dBA minimum are retroactive in sleeping rooms

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2 of existing residential occupancies.

3 **1007.1.3 Approval and Testing.** See Sections 1001.4 and 1007.3.4.

4 **1007.1.4 Maintenance.** See Section 1001.5.1.

5 **1007.1.5 Problematic systems and systems out of service.** In the event of temporary failure of  
6 the alarm system or an excessive number of accidental alarm activations, the Chief is authorized to  
7 require the building owner or occupant to provide standby personnel as set forth in Section 2501.19  
8 until the system is restored.

9 **1007.1.6 Definitions.**

10 **1007.1.6.1 General.** See Section 1001.2.

11 **1007.1.6.2 Limited application.** For the purpose of Article 10, certain terms are defined as  
12 follows:

13 **BASIC FIRE ALARM SYSTEM** consists of manual fire alarm boxes at the exits, approved  
14 automatic detection in unsprinklered storage rooms, retail sales areas, shops, kitchens, laundry  
15 rooms, parking garages, central furnace and boiler room and over the alarm panel. Alarms shall be  
16 audible throughout, with a control panel and system wiring approved for fire alarms.

17 **1007.2 Required Installations.**

18 **1007.2.1 General.**

19 **1007.2.1.1 When required.** An approved manual, automatic or manual and automatic fire alarm  
20 system shall be provided in accordance with Section 1007.2.

21 **1007.2.1.1.1 Occupant load considerations.** Where there are more than 200 occupants above or  
22 25 occupants below the level of exit discharge, the building shall have a basic fire alarm system.

23 **EXCEPTIONS:** 1. Fully sprinklered Group B Occupancies.

24 2. Existing Group B office buildings with exits conforming to the current Seattle Building  
25 Code.

26 **1007.2.1.2 Area separation walls.** For the purposes of Section 1007, area separation walls shall  
27 not define separate buildings.

28 **1007.2.1.3 Single family/duplex occupancies.** Group R occupancies require single station or  
interconnected smoke detection per the Seattle Building Code. This requirement is retroactive when  
the occupancy is sold or rented; however, single powered, line voltage or battery detectors are  
approved for the retroactive requirement.

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**1007.2.2 Group A Occupancies.**

**1007.2.2.1 General.** Group A occupancies with an occupant load exceeding 300 shall have a basic fire alarm system with voice alarm connected to central station.

**EXCEPTION:** Churches, gymnasiums, field house and similar occupancies without basements or 2nd floors are exempt.

**1007.2.3 Group B Occupancies.** See Sections 1007.2.1.1.1 and 1007.2.12.

**1007.2.4 Group E Occupancies.**

**1007.2.4.1 General.** Group E Occupancies shall be provided with fire alarm systems in accordance with Section 1007.2.4. Group E, Division 1 Occupancies and Group E, Division 3 Occupancies having an occupant load of 50 or more shall be provided with an approved basic fire alarm system.

When automatic sprinkler systems or smoke detectors provided in accordance with Section 1007.2.4.2 are installed, such systems or detectors shall be connected to the building fire alarm system.

**1007.2.4.2 Smoke detectors.**

**1007.2.4.2.1 Increased travel distance.** Smoke detectors shall be installed when required by the Building code for increases in travel distance to exits. (See U.B.C. Section 1017.3.)

**1007.2.4.2.2 Exits through adjoining rooms.** Smoke detectors shall be installed when required by the Building Code to allow the only means of egress from a room to be through adjoining or intervening rooms. (See U.B.C. Section 1017.4.)

**1007.2.4.3 Exterior alarm-signaling device.** An alarm-signaling device shall be mounted on the exterior of the building.

**1007.2.4.4 Multi-level occupancies.** A basic fire alarm system shall be provided for all multi-level Group E occupancies. This includes any Group E occupancy located over another occupancy.

**1007.2.4.5 Day care occupancies.** Any sleeping room shall be provided with smoke detection.

**EXCEPTION:** If the day care center is one story in height and has less than 50 occupants, interconnected, single station smoke detectors may be used.

**1007.2.5 Group F Occupancies.** See Section 1007.2.1.1.1.

**1007.2.6 Group H Occupancies.**

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2 **1007.2.6.1 General.** Group H Occupancies shall be provided with fire alarm systems in  
3 accordance with Section 1007.2.6. See also Section 1007.2.1.1.1.

4 **1007.2.6.2 Organic coatings.** Organic coating manufacturing uses shall be provided with a basic  
5 fire alarm system. See Article 50.

6 **1007.2.6.3 Group H, Division 6 Occupancies.** Group H, Division 6 Occupancies shall be  
7 provided with a basic fire alarm system. See Article 51.

8 **1007.2.6.4 Rooms used for storage, dispensing, use and handling of hazardous materials.**

9 When required by Article 80, rooms or areas used for storage, dispensing, use or handling of highly  
10 toxic compressed gases, liquid and solid oxidizers, and Class I, II, III or IV organic peroxides shall  
11 be provided with an automatic detection system.

12 **1007.2.7 Group I Occupancies.**

13 **1007.2.7.1 Divisions 1.1, 1.2 and 2 Occupancies.**

14 **1007.2.7.1.1 System requirements.** Group I, Divisions 1.1, 1.2 and 2 Occupancies shall be  
15 provided with an approved manual and automatic fire alarm system in accordance with Section  
16 1007.2.7.1. See also Section 1007.2.12. Smoke detection shall be provided in accordance with the  
17 Building Code.

18 **1007.2.7.1.1.1. Smoke detection.** Smoke detection shall be provided at automatic-closing doors in  
19 smoke barriers and one-hour fire-resistive occupancy separations (see U.B.C. Sections 308.2.2.1  
20 and 308.8) and in waiting areas which are open to corridors (see U.B.C. Section 1019.3).

21 **1007.2.7.1.1.2 Audibility.** When actuated, alarm-initiating devices shall activate an alarm signal  
22 which is audible throughout the building.

23 **EXCEPTION:** Visual alarm-signaling devices are allowed to substitute for audible devices  
24 in patient use areas.

25 **1007.2.7.1.2 Patient room smoke detectors.** Smoke detectors which receive their primary power  
26 from the building wiring shall be installed in patient sleeping rooms of hospital and nursing homes.  
27 Actuation of such detectors shall cause a visual display on the corridor side of the room in which  
28 the detector is located and shall cause an audible and visual alarm at the respective nurses' station.  
When single-station detectors and related devices are combined with a nursing call system, the  
nursing call system shall be listed for the intended combined use.

**EXCEPTION:** In rooms equipped with automatic door closers having integral smoke

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detectors on the room side, the integral detector may substitute for the room smoke detector, provided it performs the required alerting functions.

**1007.2.7.2 Division 3 Occupancies.**

**1007.2.7.2.1 General.** Group I, Division 3 Occupancies shall be provided with a manual and automatic fire alarm system installed for alerting staff in accordance with Section 1007.2.7.2. See also Section 1007.2.12.

**1007.2.7.2.2 System initiation.** Actuation of an automatic fire-extinguishing system, a manual fire alarm box or a fire detector shall initiate an approved fire alarm signal which automatically notifies staff. Presignal systems shall not be used.

**1007.2.7.2.3 Manual fire alarm boxes.**

1. **General.** Manual fire alarm boxes need not be located in accordance with Section 1007.3.3.1 when they are provided at staff-attended locations having direct supervision over areas where manual fire alarm boxes have been omitted.
2. **Locking of manual fire alarm boxes.** Manual fire alarm boxes are allowed to be locked in areas occupied by detainees, provided that staff members are present within the subject area and have keys readily available to operate the manual fire alarm boxes.

**1007.2.7.2.4 Smoke detection.** An approved automatic smoke-detection system shall be installed throughout resident housing areas, including sleeping areas and contiguous day rooms, group activity spaces and other common spaces normally accessible to residents.

**EXCEPTION:** Other approved smoke-detection arrangements providing equivalent protection, such as placing detectors in exhaust ducts from cells or behind protective grilles, are allowed when necessary to prevent damage or tampering.

**1007.2.7.2.5 Zoning and annunciation.** Alarm and trouble signals shall be annunciated at an approved constantly attended location. Such signals shall indicate the zone of origin. Separate zones shall be provided for individual fire-protection systems, buildings, floors, jail facilities and sections of floors compartmented by smoke-stop partitions.

**1007.2.7.2.6 Monitoring.** The fire alarm system shall be monitored by an approved central, proprietary or remote station service or by transmission of a local alarm which will give audible and

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2 visual signals at an approved constantly attended location.

3 **1007.2.8 Group M Occupancies.** See Sections 1007.2.1.1.1 and 1007.2.12.

4 **1007.2.9 Group R Occupancies.**

5 **1007.2.9.1 General.** Group R, Division 1 occupancies of three or more stories or 16 or more  
6 units, or 20 or more guest rooms, or 20 or more occupants in a congregate residence shall have a  
7 basic fire alarm system plus corridor smoke detection.

8 **EXCEPTIONS:** 1. The 16 unit requirement is not retroactive for buildings constructed  
9 prior to 1983.

10 2. Sprinklered Group R, Division 1 buildings may delete corridor smoke detection and  
11 manual fire alarm boxes except at building exit discharge to the exterior.

12 3. Row or townhouses three stories or less in height, where no unit extends under another  
13 and each unit has its own exit.

14 **1007.2.9.2 State licensed facilities.** Group LC occupancies three or more stories in height or with  
15 more than 16 clients shall have a basic fire alarm system.

16 **1007.2.9.3 Sprinklered buildings.** The water flow alarm shall be connected to the building fire  
17 alarm system in all Group R occupancies requiring a fire alarm system. When a fire alarm system  
18 is not required, the water flow alarm shall be audible at 70 dBA throughout and a non-supervised  
19 system may be used.

20 **1007.2.9.4 Partially sprinklered buildings.** Where there are unsprinklered areas below or  
21 adjacent to residential units and their exitways, approved automatic detection connected to the  
22 building fire alarm shall be provided.

23 **1007.2.10 Group S Occupancies.** See Sections 1007.2.1.1.1 and 1007.2.12.

24 **1007.2.11 Group U Occupancies.** No requirements.

25 **1007.2.12 Special uses and conditions.**

26 **1007.2.12.1 Amusement buildings.**

27 **1007.2.12.1.1 General.** An approved smoke-detection system shall be provided in amusement  
28 buildings in accordance with Section 1007.2.12.1.

**EXCEPTION:** In areas where ambient conditions will cause a smoke-detection system to  
alarm, an approved alternate type of automatic detection shall be installed.

**1007.2.12.1.2 Alarm system.** Activation of any single smoke detector, the automatic sprinkler

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2 system or other automatic fire-detection device shall immediately sound an alarm in the building at a  
3 constantly supervised location from which the manual operation of systems noted in Section  
4 1007.2.12.1.3 can be initiated.

5 **1007.2.12.1.3 System response.** The activation of two or more smoke detectors, a single smoke  
6 detector monitored by an alarm verification zone, the automatic sprinkler system or other approved  
7 fire-detection device shall automatically:

- 8 1. Stop confusing sounds and other visual effects,  
9 2. Activate approved directional exit marking, and  
10 3. Cause illumination of the exit path with light of not less than one footcandle at the  
11 walking surface.

12 **1007.2.12.1.4 Public address system.** The public address system is also allowed to serve as an  
13 alarm.

14 **1007.2.12.2 High-rise buildings.**

15 **1007.2.12.2.1 General.** Existing high-rise buildings shall have a fire alarm system as required in  
16 Article 193. New high-rise buildings shall have a fire alarm system meeting Seattle Building Code  
17 Section 403 requirements.

18 **1007.2.12.2.2 Reliability.** Systems shall be designed so that no single component failure can put  
19 the entire voice alarm or shaft pressurization control systems out of service.

20 **1007.2.12.3 Buildings with atriums.** Actuation of an atrium smoke-control system required by  
21 the Building Code shall initiate an audible fire alarm signal in designated portions of the building.  
22 Manual controls for the mechanical smoke control system and where provided, for the gravity  
23 venting system shall be provided at the fire control panel.

24 **1007.2.12.4 High-piled combustible storage uses.** When required by Article 81, high-piled  
25 combustible storage uses shall be provided with an automatic smoke-detection system throughout.

26 **1007.2.12.5 Special egress-control devices.** When special egress-control devices are installed on  
27 exit doors, an automatic smoke-detection system shall be installed throughout the building. (See  
28 Seattle Building Code Section 1004.5).

**1007.2.12.6 Aerosol storage uses.** When required by Article 88, aerosol storage rooms and  
general purpose warehouses containing aerosols shall be provided with an approved manual alarm

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1  
2 system.

3 **1007.2.12.7 Smoke-control systems.** An approved automatic smoke-detection system shall be  
4 provided when required by the Building Code for automatic control of a smoke-control system.  
5 (See Seattle Building Code Section 905.9.)

6 **1007.3 General System Design and Installation Requirements.**

7 **1007.3.1 Design standards.**

8 **1007.3.1.1 General.** Complete plans and specifications for fire alarm systems shall be submitted  
9 for review and approval prior to system installation. Plans and specifications shall include, but not  
10 be limited to: a floor plan, location of all alarm-initiating and alarm-signaling devices, alarm control  
11 and trouble-signaling equipment, annunciation, power connection, battery calculations, wiring type  
12 and sizes.

13 **1007.3.2 System Design.** Fire alarms shall be designed in accordance with UFC Standard 10-2  
14 except as modified by: this code, applicable sections of the Seattle Building and Electrical Codes,  
15 rulings published by the Fire Chief or Director of the Department of Construction and Land Use.

16 **1007.3.3 System layout and operation.**

17 **1007.3.3.1 Manual fire alarm boxes.** Manual fire alarm boxes shall be mounted per UFC  
18 Standard 10-2 at a maximum height of 54 inches above the floor at every exit on every floor.

19 **EXCEPTIONS:** 1. Manual fire alarm boxes at staff attended locations.

20 2. Manual fire alarm boxes are not required on sprinklered floors of Groups B, F-1, M, S-  
21 1 and S-2 Occupancies.

22 3. Manual fire alarm boxes are not required on floors above or below the level of exit  
23 discharge in sprinklered Group R, Division 1 buildings.

24 4. Existing systems with manual fire alarm boxes installed on alternate floors per earlier  
25 standards.

26 5. Manual fire alarm boxes are not required on mezzanine floors that exit through other  
27 floors.

28 6. In those instances where no building fire alarm is required, manual fire alarm boxes may  
be omitted in sprinklered occupancies where the water flow alarm is connected to an  
approved central station.

**1007.3.3.2 Control units, annunciator panels and access keys.** The alarm control unit, remote

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annunciator panel and access keys to locked fire alarm equipment shall be installed and maintained in a location approved by the Chief.

**1007.3.3.2.1 Annunciator panels.** Annunciator panels shall be located at the main building entrance. When an exception is approved for any reason, a sign shall be provided at the main entrance indicating annunciators' location. Exterior annunciators shall be weather-proof.

Information showing control panel location shall be provided at remote annunciators. Graphic annunciators shall be mounted to maintain the viewer's directional orientation.

**1007.3.3.2.2 Location.** Alarm panels and annunciators shall not be installed where they would obstruct exiting. The required exit width plus 12 inches shall be provided when the panel is located in a means of egress. Alarm panels shall not be installed in an exit enclosure providing the sole exit from any space.

Equipment installed in areas subject to freezing shall be approved for the temperature anticipated.

**1007.3.3.3 Alarm initiation and signal.**

**1007.3.3.3.1 General.** When actuated, fire alarm-initiating devices shall activate an alarm signal which is audible throughout the building or in designated portions of the building when approved by the Chief.

**EXCEPTION:** Single-station detectors in dwelling units, rooms used for sleeping purposes in hotel and lodging houses, and patient sleeping rooms in hospitals and nursing homes.

**1007.3.3.3.2 Alarm signal.** The alarm signal shall be a slow whoop in voice alarm type systems.

**EXCEPTIONS:** 1. A keyed temporal signal per UFC Standard 10-2 may be substituted for the slow whoop.

2. A chime signal may be used in patient care facilities.

**1007.3.3.3.3 Audibility.** Alarms shall be audible at 15 dBA above average ambient or 5 dBA above the maximum sound level having a duration of at least 60 seconds (whichever is greater) and 60 dBA minimum in all occupied areas. Audibility shall be measured with doors closed and after carpet and other sound-absorbing materials are installed.

**EXCEPTIONS:** 1. In sleeping areas, alarms shall be audible at 15 dBA above ambient and 70 dBA minimum.

2. In Groups A, B, E, I, and M occupancies, audibility may be measured with doors open to rooms up to 300 square feet, provided the door is not equipped with a closer.

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3. Audibility is not required where patients or inmates are restrained, and as outlined in Section 1007.2.7.1.1.2.

4. Systems installed prior to the effective date of this code with alarms audible at 15 dBA above ambient, 60 dBA minimum in sleeping areas, and 10 dBA above ambient, 55 dBA minimum elsewhere measured with doors closed, unless specifically exempted.

**1007.3.3.3.3.1 Sound system shut-down.** Areas used for loud music concerts or similar activities shall have an amplifier shut-down connected to the fire alarm system.

**1007.3.3.3.3.4 Visual alarms.** Visual alarms for accessibility shall be installed with new fire alarm systems as required under Chapter 11 of the State Building Code. Visual alarms shall be installed in other occupancies when the Chief has determined that audible alarms are not sufficient to provide adequate fire and life safety. Visual alarms shall be installed in accordance with Uniform Fire Code Standard 10-2.

**1007.3.3.3.3.5 Automatic sprinkler water flow.** Automatic sprinkler water flow alarm in occupancies requiring a fire alarm shall be connected to the alarm system.

**EXCEPTIONS:** 1. Basement parking garages not used as exits from the building.

2. Systems of twenty (20) or fewer sprinklers and not part of exitway protection.

**1007.3.3.3.3.6 Alarm initiation devices.** All new alarm initiation devices shall be connected to the building fire alarm system.

**EXCEPTIONS:** 1. Buildings where a fire alarm system is not required.

2. In-unit residential smoke detectors.

3. Door release devices when approved by the Chief.

**1007.3.3.3.3.7 Fire extinguishing systems.** Range hood fire suppression, approved extinguishing systems and pre-action sprinkler systems installed after the effective date of this code shall be connected to the building fire alarm system to provide an alarm when the system discharges.

**1007.3.3.4 Connections to other systems.** A fire alarm system shall not be used for any purpose other than fire warning unless approved by the Chief. Listed or approved combination fire alarm and security systems may be installed in any occupancy. Fire alarm signals shall be distinct from security signals.

Non-required fire detection may be added to security systems without plan approval or Fire Department inspection.

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2 **1007.3.3.5 Supervision.** Means of interconnecting equipment, devices and appliances shall be  
3 supervised for the integrity of the interconnecting conductors or equivalent, as set forth in U.F.C.  
4 Standard 10-2.

5 **1007.3.3.6 Monitoring.**

6 **1007.3.3.6.1 General.** When required by the Chief, fire alarm systems shall be monitored by an  
7 approved central, proprietary or remote station service or a local alarm which gives audible and  
8 visual signals at a constantly attended location.

9 **1007.3.3.6.2 Automatic telephone dialing devices.** Automatic telephone dialing devices used to  
10 transmit an emergency alarm shall not be connected to any fire department telephone number unless  
11 approved by the Chief.

12 **1007.3.3.7 Annunciation.** A zoned system with annunciation shall be provided for buildings 4 or  
13 more stories in height, 3 or more buildings on a common alarm, or buildings with 3 or more main  
14 entrances:

15 Buildings other than high-rise may be zoned by floor or zoned by logical divisions such as: by  
16 building for multiple small buildings, by building division, by areas covered by different sprinkler  
17 systems and by elevator prime and alternate recall zones. Elevator machine rooms are a separate  
18 zone when sprinklers are valved off.

19 The maximum zone on a single water flow alarm shall not exceed 5 floors or 24,000 square feet  
20 unless other devices such as full corridor smoke detection are provided and zoned by floor.

21 High-rise buildings shall be zoned by floor.

22 **EXCEPTIONS:** 1. Existing Article 193 buildings.

23 2. Where openings in the floor are permitted, adjust smoke detection zones to encompass  
24 the entire open area and adjust initial alarm zones to include the open area and floor above.

25 **1007.3.4 Acceptance test and certification.**

26 **1007.3.4.1 Acceptance test.** Upon completion and after electrical inspection of the installation, a  
27 satisfactory test of the entire system shall be made in the presence of the Chief. All functions of the  
28 system or alteration shall be tested by a certified individual. See Appendix III-B.

**1007.3.4.2 Certification.** The permit holder shall provide written certification to the Chief that the  
system has been installed in accordance with the approved plans and specifications. Service labels  
shall be affixed. See Appendix III-B.

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2 **1007.3.4.3 Instructions.** When required by the Chief, operating, testing and maintenance  
3 instructions and "as-built" drawings and equipment specifications shall be provided at an approved  
4 on-site location.

5 **1007.3.4.4 Maintenance and confidence testing.** Fire alarm and fire detection systems shall be  
6 functionally tested monthly and receive a complete maintenance test annually. Persons performing  
7 the maintenance test shall have Seattle Fire Department certificates. See Appendix III-B.

8 High-rise buildings are required to be on a quarterly testing schedule.

9 **EXCEPTIONS:** 1. The monthly functional test may be eliminated, provided that a  
10 certified person performs functional tests on a quarterly schedule.

11 2. The annual maintenance test may be performed in increments, provided that the entire  
12 system is tested within one year.

13 **1007.3.5 Fire Detection.**

14 **1007.3.5.1 Additional required fire detection systems.** Fire detection shall be provided in all  
15 buildings or additions hereinafter constructed which exceed 3,000 square feet of gross floor area.  
16 Audibility is not required.

17 UL listed burglar/fire alarm systems are approved. Systems listed for security only are not  
18 approved.

- 19 **EXCEPTIONS:** 1. Group U or Group R Occupancies.  
20 2. Occupancies protected by an approved automatic sprinkler system.  
21 3. Buildings with a monitored alarm system complying with Article 193.  
22 4. Group F, Division 2 Occupancies.  
23 5. Group S, Division 2 and 4 Occupancies.

24 Section 39. Subsection 1103.2.1.4.1 of the Uniform Fire Code is amended by adding thereto an  
25 exception to read as follows:

26  
27 **1103.2.1.4.1 General.** Rubbish containers kept outside of rooms or vaults shall not exceed 40.5  
28 cubic feet (1.15 m<sup>3</sup>) capacity. Containers exceeding 5 1/3 cubic feet [40 gallons (0.15 m<sup>3</sup>)] capacity  
shall be constructed of noncombustible materials or nonmetallic materials complying with Section  
1103.2.1.4.2.

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Containers exceeding 5 1/3 cubic feet [40 gallons (0.15 m<sup>3</sup>)] capacity shall be provided with lids.

**EXCEPTION:** Waste accumulated for collection by the solid waste utility shall be stored in containers (to include recycling containers) specified in the City's solid waste collection contracts authorized by ordinance.

Section 40. Section 1103 of the Uniform Fire Code is amended by adding thereto a new subsection 1103.3.2.7 to read as follows:

**1103.3.2.7 Storage arrangements.** Storage shall be within 20 feet of two aisles each at least 44 inches wide. No block pile shall exceed 40 x 40 feet, unless approved by the Chief. No dead end aisle shall be longer than 10 times its width. All storage in unsprinklered areas shall be within 150 feet aisle travel of Fire Department exterior access openings. Storage shall not obstruct access to extinguishers, standpipe outlets, sprinkler control shut down and safety controls or Fire Department access openings.

Section 41. Section 1103 of the Uniform Fire Code is amended by adding thereto a new subsection 1103.3.4.3 to read as follows:

**1103.3.4.3 Fuel load.** The amount of combustible furnishings, decorative or display materials located more than 20 feet from ceiling mounted sprinklers in an atrium shall not exceed a fire loading of 2 lbs./sq.ft..

Section 42. Subsection 1105.2 of the Uniform Fire Code is amended to read as follows:

**1105.2 Use.** Asphalt kettles shall not be used inside or on the roof of a building.

**EXCEPTION:** Operations authorized under Seattle Fire Department permit.

Section 43. Section 1210 of the Uniform Fire Code is amended by adding thereto a new subsection 1210.7 to read as follows:

**1210.7 Egress from stairways.** Enclosed stairways serving more than six (6) floors shall have two

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(2) means of egress from the stairway. Enclosed stairways serving ten (10) or more floors shall have reentry into the building at approximate 5-story intervals. Reentry signs shall be posted in the stair.

**EXCEPTIONS:** 1. Jails.

2. Where telephones connected to a 24-hour staffed location are provided in the stairway in each 5-floor increment that does not have a means of egress.

3. Where any door serving as an entrance to the stair does not automatically lock behind a person entering the stair.

4. Where alternate means of alerting building management to persons trapped in a stairwell are approved by the Building Official.

**POINT OF INFORMATION**

1. See Appendix VI-D for Seattle Building Code Sections 1012 and 1013 on exit illumination and signs.
2. The maintenance of exit signs and exit illumination is determined by the Building Code in effect at the time the building was constructed or substantially remodeled.

Section 44. Subsection 1302.3 of the Uniform Fire Code is hereby repealed. Section 1302 of the Uniform Fire Code is amended by adding thereto new subsections 1302.3, 1302.3.1, and 1302.3.2 respectively to read as follows:

**1302.3 False alarms.**

**1302.3.1 Unlawful acts.** It shall be unlawful for any person to give, signal or transmit or for any person to cause or permit to be given, signaled or transmitted, in any manner, any false alarm.

It shall be unlawful for any person to tamper with or maliciously injure any fire alarm equipment maintained for the purpose of transmitting fire alarms to the Fire Department.

Reporting a false fire alarm or intentionally tampering with fire alarm equipment is a violation of Seattle Municipal Code, Section 12A.16.040 titled "False Reporting."

A fine in the amount of fifty (\$50) dollars may be levied against the owner or monitoring agency of any off-premises fire alarm system generating or transmitting a second and each subsequent system false alarm during any twelve (12) month period.

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2 **1302.3.2 Fire Drills.** Nothing in section 1302.3 shall prohibit the sounding of any such signal  
3 essential for the carrying on of any fire drill. The Chief may require notification in advance when  
4 such signal will be sounded, and shall be notified in advance if such signal is transmitted from a  
5 system connected to a central station.  
6

7 Section 45. Section 1302 of the Uniform Fire Code is amended by adding thereto a new subsection  
8 1302.4 to read as follows:

9 **1302.4 Automatic alarm reporting.** Only approved fire alarm systems may automatically contact  
10 the Fire Department Alarm Center. The contact may be direct or through an approved third party,  
11 such as, but not limited to, a central station service. A third party shall not forward an alarm to the  
12 Fire Alarm Center if the third party is not approved for that purpose or if the alarm originates from  
13 a non-approved system.  
14

15 Section 46. Section 1303 of the Uniform Fire Code is amended by adding thereto a new subsection  
16 1303.3.7 read as follows:

17 **1303.3.7 High-rise buildings.** High-rise buildings shall conduct fire drills as required by the  
18 emergency Operation plan approved under Building Code Section 403 and/or Fire Code Article 193.  
19

20 Section 47. Subsection 2401.2 of the Uniform Fire Code is amended to read as follows:

21  
22 **2401.2 Permits.** For permits to use structures or enclosures for aircraft servicing or repair and  
23 aircraft refueling vehicles, see Section 105.8, ((Permits)) Items a.2 and a.3. For permits to  
24 authorize helicopter lifts of heavy equipment over populated areas, see Section 105.8, Item h.4.  
25

26 Section 48. Subsection 2501.3 of the Uniform Fire Code is hereby repealed. Section 2501 of the  
27 Uniform Fire Code is amended by adding thereto a new subsection 2501.3 to read as follows:

28 **2501.3 Permits Required.** No place of assembly with an occupant load of 100 or more shall be  
maintained, operated or used without a permit (see also Section 105). Common use areas at  
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apartments and condominiums such as cabanas and rooftops are not excepted. Any exhibition that introduces flammable or combustible material into a place of assembly or alters the existing configuration in any manner shall be under separate permit.

- EXCEPTIONS:**
1. School auditoriums, open-concept classrooms and similar areas, when used for school functions.
  2. Lunchrooms, training centers and similar areas operated for employees or regular building occupants (less than 300 occupants) without appreciable fuel load.
  3. Private parties at residences.

Section 49. Subsection 2501.18.3 of the Uniform Fire Code is amended by adding thereto a new item 12 to read as follows:

**2501.18.3 Candles and other open-flame decorative lighting.**

\* \* \*

12. Nothing in this Code shall prevent the participants in religious ceremonies from carrying hand-held candles. (Ref. RCW 19.27.030 (3)). It is the objective of the Fire Code to prevent the risk of injury arising from the use of hand-held candles in places of public assembly by children aged 12 or under. A competent adult shall remain within 15 feet of the child, at all times, unless an alternative equal safety standard, proposed by the person requesting the permit, is approved by the Chief.

Section 50. Article 25 of the Uniform Fire Code is amended by adding thereto a new Section 2506 - AMUSEMENT BUILDINGS to read as follows:

**SECTION 2506 -- AMUSEMENT BUILDINGS**

**2506.1 General.** Occupancies used for temporary amusement events and amusement buildings shall have an automatic fire-extinguishing system installed as approved by the Chief. The Chief may waive this requirement if the Chief finds that other safeguards already in place adequately provide for fire and life safety.

Section 51. Section 4502.6.2 of the Uniform Fire Code is hereby repealed.

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2 Section 52. Section 4901 of the Uniform Fire Code is amended by adding thereto a new subsection  
3 4901.1.1 to read as follows:

4  
5 **4901.1.1 Definition.** For the purpose of Article 49, the term HOT WORK is defined as follows:  
6 **HOTWORK** means any open-flame or arc-producing device and any activity involving riveting,  
7 welding, cutting, burning, silbrazing, brazing, soldering, use of powder-actuated tools or similar  
8 spark, arc or flame producing activity. Grinding, drilling, heating of couplings or other machinery,  
9 abrasive blasting and similar spark-producing operations in areas where flammable or explosive  
10 atmosphere may be present or produced may be considered hotwork.

11  
12 Section 53. Subsection 4901.3 of the Uniform Fire Code is hereby repealed. Section 4901 of the  
13 Uniform Fire Code is amended by adding thereto a new subsection 4901.3 to read as follows:

14  
15 **4901.3 Permits.** A permit is required to:

- 16 1. Perform welding or cutting operations.  
17 2. Perform welding or cutting operations on, over, underneath, or adjacent to any combustible  
18 structure. Such permit shall not be required for each job location, but a copy of said permit  
19 shall be available at each job site. The permit holder shall notify the Chief in advance (24  
20 hours in advance when possible) before performing welding, burning, or cutting at locations  
21 other than those listed on the permit.  
22 3. Conduct hot work on storage tanks, piping and associated systems containing or previously  
23 containing flammable or combustible liquids.  
24 4. Conduct hot work on marine vessels.  
25 5. Produce acetylene for wholesale or retail sales, using an acetylene generator and maintain  
26 storage of calcium carbide associated with such production.

27 **EXCEPTIONS:** 1. Group R, Division 3 and Group U occupancies.  
28 2. Use of jewelers' torches and similar small instruments in accordance with Article 82.

Section 54. Subsection 4909.1 of the Uniform Fire Code is amended to read as follows:

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2 **4909.1 General.** Storage of calcium carbide shall not exceed fifty (50) pounds per storage location  
3 within the Fire District (see Appendix VI-D). Storage of calcium carbide inside buildings shall be  
4 in a dry, waterproof and well-ventilated area.

5  
6 Section 55. Subsection 5201.6.3 of the Uniform Fire Code is hereby repealed. Section 5201 of the  
7 Uniform Fire Code is amended by adding thereto a new subsection 5201.6.3 to read as follows:

8  
9 **5201.6.3 Unsupervised dispensing.** Dispensing at unsupervised locations shall comply with the  
10 following:

- 11 1. The dispensing equipment system shall be provided with an emergency shutoff switch  
12 located within 75 feet (22,860 mm) of, but not less than 25 feet (7,620 mm) from,  
13 dispensers and
- 14 2. Supervision by a qualified attendant is not required for a service station which is not open to  
15 the public and which is used only by a commercial, industrial, governmental or  
16 manufacturing establishment for fueling vehicles used in connection with their business.  
17 Such stations may include card or key operated dispensers. The owner or operator of such  
18 station is accountable for the safe operation of the station and training of the users thereof.  
19 The owner or operator shall provide daily site visits, regular equipment inspection and  
20 maintenance, conspicuously posted instructions for the safe operation of dispensing  
21 equipment, and posted telephone numbers for the owner or operators. A sign, in addition to  
22 the signs required by Section 5201.8, shall be posted in a conspicuous location reading:

23  
24 **IN CASE OF FIRE, SPILL OR RELEASE**

- 25 1. Use emergency pump shutoff!
- 26 2. Report the accident!  
27 Fire Department Telephone No.  
28 Facility address

Section 56. Subsection 5202.3.1 of the Uniform Fire Code is hereby repealed. Section 5202 of the  
Uniform Fire Code is amended by adding thereto a new subsection 5202.3.1 to read as follows:

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2 **5202.3 Storage of Fuel.**

3 **5202.3.1 General.** Class I liquids shall be stored in closed containers or in tanks located  
4 underground. Class II and III-A liquids shall be stored in containers or in tanks located  
5 underground or in special enclosures in accordance with Section 5202.3.6. See also Appendix II-F.  
6

7 Section 57. Subsection 5202.4 of the Uniform Fire Code is amended to read as follows:

8 **5202.4 Dispensing.**

9 **5202.4.1 Aboveground tanks.** Class I (~~and Class II~~) liquids shall not be dispensed into the fuel  
10 tank of a motor vehicle from aboveground tanks. Class II and III-A liquids shall not be dispensed  
11 into the fuel tank of a motor vehicle from aboveground tanks except when such tanks are installed  
12 inside special enclosures in accordance with Section 5202.3.6. See also Appendix II-F.  
13

14 **5202.4.2 Filling of portable containers and tanks and cargo tanks.** It is unlawful to sell, offer  
15 for sale, or distribute any container for the storage and/or handling of flammable liquids, unless  
16 such container has been approved for such purpose under applicable provisions of this Code. Class  
17 I, II and III-A liquids shall not be dispensed into portable containers unless such container is of  
18 approved material and construction, and having a tight closure with screwed or spring cover so  
19 designed that the contents can be dispensed into without spilling. Liquids shall not be dispensed  
20 into portable tanks.

21 Cargo tanks shall be filled at bulk plants or terminals.

22 Section 58. Subsection 5202.4.3.2 of the Uniform Fire Code is amended by adding thereto a new  
23 item 4 as follows:

24 \* \* \*

25 4. A latch-open device, if used, must disengage when the nozzle is returned to the dispenser  
26 (pump).  
27

28 Section 59. Subsection 5202.4.4 of the Uniform Fire Code is hereby repealed. Section 5202 of the  
Uniform Fire Code is amended by adding thereto a new subsection 5202.4.4 to read as follows:

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2 **5202.4.4 Supervision.** See Section 5201.6.3.

3  
4 Section 60. Subsection 5202.11.2 of the Uniform Fire Code is amended to read as follows:

5  
6 **5202.11.2 General construction.** Piers, wharves and floats where Class I, II or III-A liquid  
7 dispensers are located shall be of fire-resistive construction and shall be impervious to spills of such  
8 liquids and oils within the immediate area of the dispenser, including areas within reach of the hose  
9 and nozzle, where the hose and nozzle are used.

10 **EXCEPTION:** When approved by the Chief, the non-combustible surface area does not  
11 have to accommodate all nozzle locations at stations with a full time attendant or equipped  
12 with automatic hose reel take-up.

13  
14 Section 61. Subsection 5202.11.4.1.2 of the Uniform Fire Code is amended to read as follows:

15  
16 **5202.11.4.1.2 Location of tanks and pumps.** Tanks and pumps, other than those integral with  
17 approved dispensing devices, supplying Class I, II or III-A liquids at marine motor vehicle fuel-  
18 dispensing stations shall be located only on shore or, when approved by the Chief, on piers of solid-  
19 fill type. ~~((Approved dispensing devices with or without integral pumps are allowed to be located~~  
20 ~~on shore, piers of solid fill type, open piers, wharves or floating docks.))~~

21 Section 62. Section 5202 of the Uniform Fire Code is amended by adding thereto new subsection  
22 5202.11.4.1.3 to read as follows:

23  
24 **5202.11.4.1.3 Location of fueling operations.** Fueling of floating marine craft in the Fire District  
25 and fueling at locations other than a marine motor vehicle fuel-dispensing station is subject to  
26 permit. See Appendix VI-D for the definition of Fire District.

27  
28 Section 63. Subsection 5203.6 of the Uniform Fire Code is amended to read as follows:

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2 **5203.6 Private Fueling of Motor Vehicles.** Self-service LP-gas dispensing systems, including  
3 key, code and card lock dispensing systems, shall not be open to the public and shall be limited to  
4 the filling of permanently mounted fuel containers on LP-gas powered vehicles.

5 In addition to the requirements in Section 5201.6, self-service LP-gas dispensing systems shall be  
6 ~~((in accordance with the following:~~

7  
8 ~~1. The system shall be))~~ provided with an emergency shutoff switch located within 75 feet (22,860  
9 mm) of, but not less than 25 feet (7,620 mm) from, dispensers.

10 ~~((2. The owner of the dispensing facility shall ensure the safe operation of the system and the~~  
11 ~~training of users.))~~

12  
13 Section 64. Subsection 5204.6 of the Uniform Fire Code is amended to read as follows:

14  
15 **5204.6 Private Fueling of Motor Vehicles.** Self-service CNG-dispensing systems, including key,  
16 code and card lock dispensing systems, shall be limited to the filling of permanently mounted fuel  
17 containers on CNG-powered vehicles.

18  
19 In addition to the requirements in Section 5201.6, self-service CNG-dispensing systems shall be ~~((in~~  
20 ~~accordance with the following:~~

21 ~~1. The system shall be))~~ provided with an emergency shutoff switch located within 75 feet (22,860  
22 mm) of, but not less than 25 feet (7,620 mm) from, dispensers ~~((and~~

23 ~~2. The owner of the dispensing facility shall ensure the safe operation of the system and the training~~  
24 ~~of users.))~~

25  
26 Section 65. Article 61 of the Uniform Fire Code is hereby repealed. The Uniform Fire Code is  
27 amended by adding thereto a new Article 61 to read as follows:

28  
**ARTICLE 61 -- OIL BURNING EQUIPMENT**

**SECTION 6101 -- SCOPE**

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1  
2 Oil-burning equipment other than internal combustion engines, oil lamps and portable devices such  
3 as blow torches, melting pots and weed burners shall be in accordance with Article 61.  
4

5 **SECTION 6102 -- GENERAL**

6 The design, construction and installation of oil-burning equipment shall be in accordance with the  
7 Mechanical Code. Oil-burning equipment shall be of an approved type.  
8

9 **SECTION 6103 -- PERMITS**

10 See Section 105.8 for permits. A permit is required to remove, abandon, place temporarily out of  
11 service or otherwise dispose of a combustible liquids tank. Such a permit may be issued without an  
12 inspection of the tank or premises as otherwise required in Section 105.4.  
13

14 **SECTION 6104 -- ELECTRICAL WIRING AND EQUIPMENT**

15 Electrical wiring and equipment used in connection with oil-burning equipment shall be installed in  
16 accordance with the Electrical Code.  
17

18 **SECTION 6105 -- FUEL OIL**

19 The fuel oil used in a burner shall be of a type approved for the burner and in accordance with the  
20 burner manufacturer's recommendations.  
21

22 **SECTION 6106 -- ABANDONMENT OF TANKS**

23 Tanks and piping serving oil-burning equipment which have been out of service for a period of one  
24 year shall be removed from the ground or abandoned in place in accordance with Section 7902.1.7  
25 of this code.  
26

27 **SECTION 6107 -- PORTABLE UNVENTED OIL-BURNING HEATING APPLIANCES AND  
UNVENTED DECORATIVE GAS LOGS AND FIREPLACES**

28 **6107.1 General.** The design, construction and use of portable unvented oil-burning heating  
appliances shall be in accordance with Section 6107 and other applicable provisions of this code.

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1  
2 **6107.2 Equipment.** Portable unvented oil-burning heating appliances shall be listed and shall be  
3 limited to a fuel tank capacity of 2 gallons (7.6 L).  
4

5 **EXCEPTION:** Appliances approved for temporary use during construction processes are  
6 allowed to have a greater fuel tank capacity, provided such capacity does not exceed the  
7 terms of the listing of the appliance.  
8

9 **6107.3 Location.** The use of listed portable unvented oil-burning heating appliances shall be  
10 limited to supplemental heating in Group S, Divisions 3,4 and 5 and Group U Occupancies.  
11

12 **EXCEPTIONS:** 1. When approved by the Chief, portable unvented oil-burning heating  
13 appliances may be used in any occupancy during construction when such use is necessary  
14 for the construction and the use does not represent a hazard to life or property.  
15

16 2. Approved, unvented portable oil-fueled heaters may be used as a supplemental heat  
17 source in any Group B, F-2, M, R or U Occupancy provided that such heaters shall not be  
18 located in any sleeping room or bathroom, and shall comply with RCW 19.27A.080,  
19 19.27A.090, 19.27A.100, 19.27A.110, and 19.27A.120.  
20

21 **6107.4 Fuel.** The grade and type of fuel shall be in accordance with the listing for the appliance.  
22 Storage and handling of fuel shall be in accordance with Article 79.  
23

24 Section 66. Section 6301 of the Uniform Fire Code is amended to read as follows:  
25

26 **SECTION 6301 -- SCOPE**

27 Refrigeration unit and system installations having a refrigerant circuit containing more than 220  
28 pounds (100 kg) of Group A1 or 30 pounds (13.6 kg) of any other group refrigerant shall be in  
accordance with Article 63 and the Mechanical Code. See the Mechanical Code for refrigerant  
group descriptions. See also Sections 8001.1.2 and 8002.

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EXCEPTION: The chief is authorized to exempt temporary or portable installations.

The provisions of this Article may be waived when the Chief has determined that such enforcement is preempted by other codes, statutes or ordinances or that, as a matter of fire and life safety, other satisfactory regulatory safeguards or satisfactory industry standards are in place. The details of any action granting such a waiver may be, but are not required to be, recorded and entered in the files of the code enforcement agency.

Section 67. Section 7608 of the Uniform Fire Code is amended to read as follows:

**SECTION 7608 -- EXPLOSION CONTROL**

Buildings in which flammable or explosive dusts are manufactured, processed or generated outside of dust collection equipment (~~in quantities exceeding the exempt amounts in Section 8001.13~~) shall be provided with explosion control in accordance with the Building Code.

Section 68. Subsection 7701.3.1 of the Uniform Fire Code is hereby repealed. Section 7701 of the Uniform Fire Code is amended by adding thereto a new subsection 7701.3.1 to read as follows:

**7701.3.1 Required.** Permits shall be obtained:

1. To possess, store, sell, or otherwise dispose of explosive or blasting agents.
2. To transport explosives or blasting agents.
3. To use explosives or blasting agents.
4. To operate a terminal for handling explosives or blasting agents.
5. To transport blasting caps or electric blasting caps on the same vehicle with explosives. See Section 105.8.

Section 69. Subsection 7701.3.2 of the Uniform Fire Code is hereby repealed. Section 7701 of the Uniform Fire Code is amended by adding thereto a new subsection 7701.3.2 to read as follows:

**7701.3.2 Unsafe material or practice.** Permits required by Section 7701.3.1 of this Article shall not be issued for:

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1. Dynamite having an unsatisfactory absorbent or one that permits leakage of a liquid explosive ingredient under any conditions liable to exist during storage.
2. Nitrocellulose in a dry and uncompressed condition in quantity greater than 10 pounds net weight in one package.
3. Fulminate of mercury in a dry condition and fulminate of other metals in any condition except as a component of manufactured articles not hereinafter forbidden.
4. Explosive compositions that ignite spontaneously or undergo marked decomposition, rendering the products or their use more hazardous, when subjected for 48 consecutive hours or less to a temperature of 167°F.
5. New explosive materials until approved by DOT, except that permits may be issued to educational, governmental or industrial laboratories for instruction or research purposes.
6. Explosive materials condemned by DOT.
7. Explosives containing an ammonium salt and a chlorate.
8. The manufacture of explosives.
9. The storage of explosives for more than 24 hours.
10. The construction of Class I magazines.
11. Liquid nitroglycerine.
12. Dynamite (except gelatin dynamite) containing over 60 percent of liquid explosive ingredient.
13. Explosives not packed or marked in accordance with the requirements of the U.S. Department of Transportation.

Section 70. Subsection 7701.4 of the Uniform Fire Code is hereby repealed. Section 7701 of the Uniform Fire Code is amended by adding thereto a new subsection 7701.4 to read as follows:

**7701.4 Liability Insurance.** Before a permit is issued as required by section 7701.3.1, Item 3 liability insurance conforming to Section 108 shall be provided.

Section 71. Subsection 7701.7.1 of the Uniform Fire Code is hereby repealed. Section 7701 of the Uniform Fire Code is amended by adding thereto a new subsection 7701.7.1 to read as follows:

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1  
2 **7701.7.1 Manufacturing.** The manufacture of explosive materials is prohibited.

3  
4 Section 72. Section 7702 of the Uniform Fire Code is amended by adding thereto new subsections  
5 7702.1.18, 7702.1.19 and 7702.1.20 respectively to read as follows:

6  
7 **7702.1.18 Prohibition.** No person shall keep or store, nor shall any permit be issued to keep or  
8 store, any explosives at any place of habitation or within 100 feet thereof.

9  
10 **7702.1.19 Quantities established by permit.** No person possessing a permit for storage of  
11 explosives at any place shall keep or store any greater amount or other kind of explosives than are  
12 authorized in such permit.

13  
14 **7702.1.20 Supervision.** The Chief may require that any operations permitted under the provisions  
15 of Section 7701.3.1, items 2 and 3 shall be supervised at any or all times by employees of the Fire  
16 Department designated by the Chief to see that all safety and fire regulations are observed. Where,  
17 in the opinion of the Chief, no undue hazard to life or property exists, the required supervision may  
18 be waived.

19  
20 Section 73. Subsection 7801.3 of the Uniform Fire Code is amended to read as follows:

21 **Section 7801.3 Permits.** The Chief shall have authority to issue and condition permits required by  
22 this article.

23 Permits shall be obtained to:

- 24 1. Store fireworks in any amount of any type.  
25 2. Conduct a public display of fireworks.  
26 3. Discharge special fireworks.  
27 4. Transport any fireworks.

28 EXCEPTION: Transportation by a public carrier to a licensee.

5. Use or discharge fireworks inside a structure.  
6. Use or discharge fireworks for ceremonial purposes; provided that there shall be no fee for

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1  
2           such permit.

3           All permits required by this article shall be issued by the Chief. As a condition of any permit, the  
4           Chief may specify additional safeguards as necessary to provide for the public safety.

5  
6           No person under eighteen years of age may apply for or receive a permit under this article.

7  
8           An application for a permit shall be made in writing to the Chief at least 30 days in advance. After  
9           a permit is granted, transportation, storage, discharge, sale, possession, use and distribution of  
10           fireworks shall be lawful only for the purpose stated on the permit. No permit granted hereunder  
11           shall be transferable.

12  
13           The Chief may issue permits for the transportation and storage of fireworks in bulk quantities under  
14           United States Department of Transportation classifications, describing such quantity limitations,  
15           duration and conditions of storage or transport as the Chief shall deem necessary to provide for the  
16           public safety.

17  
18           No permit will be issued for the manufacture of fireworks.

19  
20           Section 74. Subsection 7801.3.1.1 of the Uniform Fire Code is hereby repealed. Section 7801 of  
21           the Uniform Fire Code is amended by adding thereto a new subsection 7801.3.1.1 to read as  
22           follows:

23           **Section 7801.3.1.1 Manufacturing.** The manufacture of fireworks and pyrotechnic special effects  
24           material is prohibited.

25           Section 75. Subsection 7801.3.1.2 of the Uniform Fire Code is hereby repealed. Section 7801 of  
26           the Uniform Fire Code is amended by adding thereto a new subsection 7801.3.1.2 to read as  
27           follows:

28           **Section 7801.3.1.2 Displays.** Permits are required to conduct a fireworks display. See Section 105,  
          Permit f.2. Permit application shall be made not less than 30 days prior to the scheduled date of the

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display.

Fireworks displays shall be in accordance with this Article. Only Class B, Class C, common and special fireworks are allowed to be used. When special fireworks are used, see Article 77. The denial by the Fire Chief of a permit for the public display of fireworks may be appealed to the City Council.

Section 76. Subsections 7802.1 through 7802.4.4.1 of the Uniform Fire Code are hereby repealed. Section 7802 of the Uniform Fire Code is amended by adding thereto new subsections 7802.1, 7802.1.1, 7802.2, 7802.3, 7802.4, 7802.4.1, 7802.4.2, 7802.4.3, 7802.4.3.1, 7802.4.4 and 7802.4.4.1 respectively to read as follows:

**SECTION 7802 -- FIREWORKS**

**7802.1 General.** Storage, use and handling of fireworks shall be in accordance with Section 7802. The sale, possession, use or discharge of any firework in the City of Seattle is prohibited except where authorized by Fire Department permit or exempted under this Section.

**EXCEPTIONS:** 1. The use of fireworks by railroads or other transportation agencies for signaling or illumination.

2. The sale or use of blank cartridges or fireworks when approved by the Chief for theatrics, signaling or ceremonial purposes.

3. The use of fireworks by the United States Armed Forces.

**7802.1.1 Authority.** The Chief and the Chief of the Seattle Police Department have authority to enforce the provisions of this article.

**7802.2 Seizure of Fireworks.** The Chief is authorized to seize, take, remove or cause to be removed at the expense of the owner, all fireworks offered or exposed for sale, stored, possessed or used in violation of this article.

Any person whose fireworks are seized under the provisions of this article, may within 10 days after such seizure, petition the Chief in writing to return the fireworks seized upon the grounds that such fireworks were illegally or erroneously seized. Such petitions shall be considered by the Chief

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2 within 15 days after filing and an oral hearing granted to the petitioner if requested. The decision  
3 of the Chief shall be provided in writing to the petitioner. The Chief may order the fireworks  
4 seized under this article disposed of, or returned to the petitioner if illegally or erroneously seized,  
5 providing such return is in compliance with state law or this article.

6  
7 The determination of the Chief is final, unless within 60 days an action is commenced in the  
8 Municipal Court of the City of Seattle for the recovery of fireworks seized by the Chief.

9  
10  
11 If the fireworks are not returned to the petitioner or destroyed, the Chief may sell all confiscated  
12 common fireworks and special fireworks that are legal for use and possession under State law and  
13 this article to wholesalers licensed by the State of Washington. Sales shall be made by public  
14 auction after publishing a notice of the date, place and time of the auction in a newspaper of general  
15 circulation within the City. Such note of public auction shall be made at least 14 days prior to the  
16 date of the auction. The proceeds of any sale of seized fireworks under this article, shall be  
17 deposited in a special fund which shall be used for the sole purpose of educating the public on  
18 firework safety.

19  
20 Fireworks that are illegal for use and possession in this state shall be removed from the city and  
21 destroyed.

22 **Section 7802.3 Prohibition.** The possession, storage, handling and use of fireworks without a  
23 permit is prohibited.

24 The manufacture of fireworks and pyrotechnic special effects material is prohibited.

25  
26 The discharge or possession of any fireworks in public parks is prohibited, unless approved by the  
27 Director of the Parks and Recreation Department and the Chief.

28 The discharge of fireworks inside or upon a structure is prohibited, unless a permit has been  
obtained from the Chief.

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2 The discharge of fireworks in a manner which constitutes a hazard to persons or property is  
3 prohibited.

4  
5 The discharging or throwing of ignited fireworks from vehicles or buildings is prohibited.

6  
7 The discharging or throwing of ignited fireworks from watercraft or vessels is prohibited, unless a  
8 permit has been obtained from the Chief.

9  
10  
11 Fireworks shall not be transported in or upon vehicles used for mass transportation such as buses or  
12 trains.

13  
14 **Section 7802.4 Displays.**

15 **Section 7802.4.1 General.** Fireworks displays shall be in accordance with Section 7802.4. Only  
16 Class C (Explosives, Division 1.4--see Appendix VI-E), common and special fireworks (Explosives,  
17 Division 1.2 or 1.3) are allowed to be used. When special fireworks (Explosives, Division 1.2 or  
18 1.3--see Appendix VI-E) are used, see Section 7703. Only permitted fireworks are authorized for  
19 use. The denial by the Fire Chief of a permit for the public display of fireworks may be appealed  
20 to the City Council.

21 **Section 7802.4.2 Pyrotechnic Operator.** Every public display of fireworks shall be handled by a  
22 competent operator approved by the Chief and shall be of such character, and so located, discharged  
23 or fired, that, in the opinion of the Chief, after proper investigation, it will not constitute a hazard  
24 to property or endanger any person. A State of Washington Pyrotechnics License is required for  
25 operators of public displays of fireworks.

26  
27 Display operators and assistants shall be 18 years of age or older. The operator will ensure that no  
28 person under the age of 18 years is allowed within 200 feet of the firing and storage site.

**Section 7802.4.3 Bond.** A bond or certificate of insurance must be furnished to the Chief before a

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2 permit is issued. The bond shall be in the minimum amount of Two Million Dollars (\$2,000,000)  
3 and shall be conditioned upon the applicant's payment of all damages to persons and property  
4 resulting from or caused by such public display of fireworks, or by any negligence on the part of  
5 the applicant or its agents, servants, employees or subcontractors in the presentation of the display.  
6 The certificate of insurance shall evidence a comprehensive general liability (including automobile  
7 coverage) insurance policy providing limits of (Two Million Dollars (\$2,000,000)) combined single  
8 limit, per occurrence and annual aggregate, no deductible, and naming the City of Seattle as an  
9 additional insured. The insurance policy shall also meet the requirements of Section 108 of the  
10 Seattle Fire Code.

11  
12 **Section 7802.4.3.1 Transportation and Storage.** All fireworks shall be stored and transported  
13 within the City in accordance with the requirements of NFPA 1123 and NFPA 1124, as applicable  
14 to outdoor displays of fireworks.

15  
16 As soon as the fireworks have been delivered to the display site, they shall be attended and shall  
17 remain dry.

18  
19 All fireworks at the firing site must be stored in ready boxes (substantially constructed wood  
20 magazines). During the display, the magazines must be 25 feet upwind (relation to firing time)  
21 from the nearest mortar. Magazine lids must open in the opposite direction to the firing. All ready  
22 boxes are to be protected by a flameproof water repellent canvas cover until emptied.

23  
24 The shell storage area shall be located at a minimum distance of not less than 25 feet from the  
25 discharge site.

26  
27 During the display, shells shall be stored upwind from the discharge site. If the wind shifts during  
28 the display, the shell storage area shall be relocated to be upwind from the discharge site.

**Section 7802.4.4 Mortars for aerial shell displays.**

**Section 7802.4.4.1 Site Criteria.** All dry grass, weeds and other combustible waste matter within

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50 feet of the firing site shall be removed.

When the display is fired from a barge, such barge shall be of non-combustible construction or have a non-combustible surface.

The firing and storage site shall be located not less than 200 feet from any building, tent, canopy or membrane structure.

No boats shall be allowed within 200 feet of the firing or storage site.

When the display is fired from a barge or vessel, a security area shall be established around the barge to prevent boats from entering the fallout area. No boats shall be allowed within 200 feet of the firing or storage site. A boat shall be on standby to remove personnel from the barge or water in an emergency. All personnel aboard the barge shall have approved flotation devices. Additional fire extinguishers, rated 2A minimum, shall be on the barge and so spaced that an extinguisher shall be available within 30 feet at all times.

Section 77. Subsection 7802.4.4.3 of the Uniform Fire Code is hereby repealed. Section 7802 of the Uniform Fire Code is amended by adding thereto a new subsection 7802.4.4.3 to read as follows:

**Section 7802.4.4.3 Inspection.** All shells shall be inspected upon delivery to the display site by the display operator. Any shells having tears, leaks, broken fuses, or showing signs of having been wet shall be set aside and shall not be fired. After the display, any such shells shall be either returned to the supplier or destroyed according to the supplier's instructions.

**EXCEPTION:** Minor repairs to fuses shall be allowed. Also, for electrically ignited displays, attachment of electric matches and other similar tasks shall be permitted.

Section 78. Subsections 7802.4.9.2 and 7802.4.9.3 of the Uniform Fire Code are hereby repealed. Section 7802 of the Uniform Fire Code is amended by adding thereto new subsections 7802.4.9.2

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and 7802.4.9.3 respectively to read as follows:

**Section 7802.4.9.2 Fire Protection.** The operator shall provide fire protection at the site as required by the Chief.

**Section 7802.4.9.3 Monitors.** The operator shall provide sufficient personnel to ensure that no unauthorized persons are allowed within 200 feet of the firing and storage site. This requirement shall be in effect from one-half hour prior to the arrival of fireworks until all fireworks debris, equipment and fireworks have been removed from the site.

Section 79. Subsections 7802.4.9.5, 7802.4.9.6 and 7802.4.9.7 of the Uniform Fire Code are hereby repealed. Section 7802 of the Uniform Fire Code is amended by adding thereto new subsections 7802.4.9.5, 7802.4.9.6 and 7802.4.9.7 respectively to read as follows:

**Section 7802.4.9.5 Display discontinued.** If, in the opinion of the Chief or his authorized representative, lack of crowd control should pose a danger, the display will be immediately discontinued until such time as the situation is corrected.

If at any time high winds or unusually wet weather prevail such that, in the opinion of the Chief, his authorized representative or the display operator, a definite danger exists, the public display shall be postponed until weather conditions improve to permit safe discharge of fireworks.

Light snow or mist need not cause cancellation of the display; however, all materials used in the display shall be protected from the weather until immediately prior to use.

**Section 7802.4.9.6 Illumination.** Display operators and assistants shall use only flashlights or approved electrical lighting for artificial illumination.

**Section 7802.4.9.7 Smoking and open flames.** No smoking or open flames shall be allowed within 50 feet of the firing or storage area as long as shells are present. Signs to this effect shall be conspicuously posted.

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2 Section 80. Subsections 7802.4.9.8.9 and 7802.4.9.8.10 of the Uniform Fire Code are hereby  
3 repealed. Section 7802 of the Uniform Fire Code is amended by adding thereto new subsections  
4 7802.4.9.8.9 and 7802.4.9.8.10 respectively to read as follows:  
5

6 **Section 7802.4.9.8.9 Defective aerial shells.** If an aerial shell fails to ignite in a mortar, the  
7 mortar shall be left alone for a minimum of 15 minutes, then carefully flooded with water.

8 Immediately following the display, and not less than 5 minutes after flooding the mortar, the mortar  
9 shall be emptied into a bucket of water and properly disposed of. The supplier shall be contacted as  
10 soon as possible for proper disposal instructions.

11  
12 Operators shall not attempt to repair a damaged shell nor shall they attempt to dismantle a dry shell.  
13 In all such cases, the supplier shall be contacted as soon as possible for proper disposal instructions.

14  
15 Operators shall not dry a wet shell, lance, or pot for reuse.

16  
17 **Section 7802.4.9.8.10 Range inspection.** The entire firing range shall be inspected immediately  
18 following a display and prior to allowing public access for the purpose of locating unexploded aerial  
19 shells. Such shells shall not be handled within 15 minutes of their firing. Such shells shall then be  
20 doused with water, allowed to stand for not less than 5 minutes and placed in a bucket of water.

21 When the firing range cannot be thoroughly inspected due to darkness, the site shall be reinspected  
22 the following morning.

23  
24 Any fireworks remaining unfired after the display shall be immediately disposed of or removed  
25 from the City in a safe manner.

26  
27 The debris from discharged fireworks shall be properly discarded.

28  
Section 81. Subsection 7901.1.1 of the Uniform Fire Code is amended to read as follows:

**7901.1.1 General.** Storage, use, dispensing, mixing and handling of flammable and combustible

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liquids shall be in accordance with Article 79.

**EXCEPTIONS:** 1. ~~((As otherwise provided in other laws or regulations))~~ The provisions of this Article may be waived when the Chief has determined that such enforcement is preempted by other codes, statutes or ordinances or that, as a matter of fire and life safety, other satisfactory regulatory safeguards or satisfactory industry standards are in place. The details of any action granting such a waiver may be, but are not required to be, recorded and entered in the files of the code enforcement agency.

2. Transportation of flammable and combustible liquids when in accordance with DOT regulations on file with and approved by DOT.

3. Alcoholic beverages in retail sales or storage uses, provided the liquids are packaged in individual containers not exceeding 4 liters.

4. Medicines, foodstuffs and cosmetics containing not more than 50 percent by volume of water-miscible liquids and with the remainder of the solution not being flammable, in retail sales or storage uses when packaged in individual containers not exceeding 4 liters.

5. Storage and use of fuel-oil tanks and containers connected to oil-burning equipment. Such storage and use shall be in accordance with Article 61 and the Mechanical Code.

6. Refrigerant liquids and refrigerant oils within an approved closed-cycle refrigeration system complying with the Mechanical Code. See Article 63.

7. Storage and display of aerosol products. See Article 88.

8. Materials which are solid at 100-F. (37.8-C.) or above.

9. Storage of liquids that have no fire point when tested in accordance with U.F.C. Standard 2-6.

10. Liquids without flash points that can be flammable under some conditions, such as certain halogenated hydrocarbons and mixtures containing halogenated hydrocarbons.

Section 82. Subsection 7901.3.1 of the Uniform Fire Code is hereby repealed. Section 7901 of the Uniform Fire Code is amended by adding thereto a new subsection 7901.3.1 to read as follows:

**7901.3.1 Permits.** See also Section 105.8, Permits f.3.1 through f.3.10. A permit is required to:

1. To store, handle or use Class I liquids in excess of 5 gallons in a building or in excess of 10 gallons outside of any building (including heated liquids of higher flash point, such as

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1  
2 asphalt).

- 3 2. To store, handle or use Class II and III-A liquids in excess of 25 gallons inside a building or  
4 in excess of 60 gallons outside of any building, except for fuel oil used in connection with  
5 oil-burning equipment.  
6 3. To store, handle or use Class III-B liquids in excess of 1,000 gallons.  
7 4. To install, alter or operate equipment in connection with the storage, handling, use or sale  
8 of flammable or combustible liquids regulated under Article 79.  
9 5. To install, alter, remove, abandon, place temporarily out of service or otherwise dispose of  
10 any flammable or combustible liquid tank. See Article 79.  
11 6. To change the type of contents stored in any flammable or combustible liquid tank to a  
12 material other than that for which the tank was designed and constructed.  
13 7. Operation of an automotive self-service station or marine service station. See Article 52.  
14 8. To operate mobile or portable refueling equipment, including marine craft.  
15 9. To remove Class I or Class II liquids from an underground storage tank used for fueling  
16 motor vehicles by any means other than the approved, stationary on-site pumps normally  
17 used for dispensing purposes.  
18 10. To operate tank vehicles in which flammable and combustible liquids are transported.

19 **EXCEPTIONS:**

- 20 1. The storage or use of liquids in the fuel tanks of motor vehicles, aircraft, motorboats,  
21 mobile power plants, mobile heating plants or portable motor boat tanks of six (6) gallons or  
22 less individual capacity and twelve (12) gallons or less aggregate capacity.  
23 2. Dispensing flammable or combustible liquids from underground tanks for motor vehicle  
24 fueling at full-service stations open to the public or at private stations using approved  
25 dispensing equipment.  
26 3. Transportation of liquids in factory sealed containers or in tanks excepted in Exception #1.  
27 4. The storage or use of paints, oils, varnishes, or similar mixtures when stored for  
28 maintenance, painting or similar purposes in quantities permitted by this Code for a period  
of not more than 30 days.

Section 83. Subsection 7901.7 of the Uniform Fire Code is amended to read as follows:

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2 **7901.7.1 General.** Flammable and combustible liquids and petroleum waste products shall not be  
3 discharged or released on sidewalks, streets, highways, drainage canals, ditches, storm drains,  
4 sewers, flood-control channels, lakes, rivers, tidal waterways or the ground.

5  
6 In the event of a spill or accidental release of a flammable or combustible liquid, inside or outside  
7 of buildings, that could present a fire or life safety hazard, the owner or occupant shall immediately  
8 report such spill or release to the Fire Department. Unauthorized discharge or release of such  
9 products shall be handled as set forth in Section 8001.5.2.

10 **EXCEPTIONS:** 1. Materials and products intended for use in weed abatement, pest  
11 control, erosion control, paving and similar applications when applied in accordance with  
12 the manufacturer's instructions, label directions and nationally recognized standards.

13  
14 2. Materials released in accordance with federal, state or local government regulations or  
15 permits of the jurisdictional air quality management board with a national pollutant  
16 discharge elimination system permit, with waste discharge requirements established by the  
17 jurisdictional water quality control board, or with local sewer pretreatment requirements for  
18 publicly owned treatment works.

19 Section 84. Subsection 7902.1.8.1.3 of the Uniform Fire Code is hereby repealed. Section 7902 of  
20 the Uniform Fire Code is amended by adding thereto a new subsection 7902.1.8.1.3 to read as  
21 follows:

22  
23 **7902.1.8.1.3 Plastic containers.** Plastic containers shall not be used for the storage of Class I, II  
24 or III liquids unless stored in approved flammable liquid cabinets, liquid storage rooms or liquid  
25 storage warehouses. See Sections 7902 5.10.2.2, 7902.5.11 and 7902.5.12.

26  
27 **EXCEPTIONS:** 1. In sprinklered buildings, an aggregate quantity of 120 gallons of  
28 water-miscible Class I-B and I-C liquids is allowed in nonmetallic containers, each having a  
capacity of 16 ounces or less.

2. Class II and III combustible consumer products when stored less than 5 feet high; or  
when such storage is confined to box bins within racks and individually protected by

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automatic sprinklers when stored higher than 5 feet.

Section 85. Section 7902 of the Uniform Fire Code is amended by adding thereto a new subsection 7902.1.8.1.4 to read as follows:

**7902.1.8.1.4 Approved containers.** It is unlawful to sell, offer for sale, or distribute any container for the storage and/or handling of flammable liquids, unless such container has been approved for such purpose under applicable provisions of this Code.

Section 86. Section 7902 of the Uniform Fire Code is amended by adding thereto a new subsection 7902.1.10.8.5 to read as follows:

**7902.1.10.8.5 Fire protection.**

**7902.1.10.8.5.1 General.** Minimum requirements for each above-ground tank or group of tanks for storage shall be in accordance with the following:

**Class I liquids.** Aboveground tanks used for the storage of Class I liquids shall be protected by an approved automatic foam fire protection system.

**Class II liquids.** Aboveground tanks used for the storage of Class II liquids shall be protected by an approved automatic water spray system.

**EXCEPTION:** Portable tanks and stationary tanks up to 660 gallon capacity provided with portable fire extinguishers and adequate water supply.

**Class III liquids.** Aboveground tanks used for the storage of Class III liquids shall be protected in accordance with Table 7902.2-A.

Section 87. Subsection 7902.5.9.4.2 of the Uniform Fire Code is hereby repealed.

Section 88. Subsection 7902.5.10.2.2 of the Uniform Fire Code is hereby repealed. Section 7902 of the Uniform Fire Code is amended by adding thereto a new subsection 7902.5.10.2.2 to read as follows:

**7902.5.10.2.2 Container type.** Containers for Class I liquids shall be metal.

**EXCEPTIONS:** 1. In sprinklered buildings an aggregate quantity of 120 gallons of water-

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miscible Class I-B and I-C liquids is allowed in nonmetallic containers, each having a capacity of 16 ounces or less.

2. Non-metallic containers may be used for Class II and III combustible consumer products when stored less than 5 feet high; or when such storage is confined to box bins within racks and individually protected by automatic sprinklers when stored higher than 5 feet.

section 89. Subsection 7902.5.11.3 is amended to read as follows:

**7902.5.11.3 Spill control, drainage control and secondary containment.** Liquid storage rooms shall be provided with spill control, drainage control and secondary containment in accordance with Section 7901.8.

See Section 7902.5.11.5.1 for special fire protection requirements if secondary containment of nonwater-miscible flammable or combustible liquids is to be achieved through the use of recessed floors or liquid-tight raised sills allowed under Section 7901.8.4.

**EXCEPTIONS:** 1. Drainage control is not required for storage rooms less than or equal to 150 sq. ft. in area.

2. Drainage control is not required for storage rooms when rooms are used exclusively for the storage of water-miscible flammable liquids.

Section 90. Subsection 7902.5.11.5.1 of the Uniform Fire Code is amended to read as follows:

**7902.5.11.5.1 Fire-extinguishing systems.** Liquid storage rooms shall be protected by automatic sprinkler systems installed in accordance with the Building Code (see U.B.C. Standard 9-1) and Table 7902.5-F, 7902.5-G, 7902.5-H, 7902.5-I, 7902.5-J. In-rack sprinklers shall also comply with U.F.C. Standard 81-2.

~~((Automatic foam water systems and automatic aqueous film-forming foam (AFFF) water sprinkler systems may be used only when approved by the chief.))~~ If secondary containment of non-water miscible flammable or combustible liquids is achieved through the use of recessed floors or liquid-tight raised sills as allowed for in Section 7901.8.4, an automatic-foam system shall be used and must be approved by the Chief. In other circumstances, automatic-foam systems may be used only

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when approved by the Chief.

Section 91. Subsection 7902.5.12.3 of the Uniform Fire Code is hereby repealed. Section 7902 of the Uniform Fire Code is amended by adding thereto a new subsection 7902.5.12.3 to read as follows:

**7902.5.12.3 Liquid Storage Warehouses - spill control, drainage control and secondary containment.** See Section 7902.5.11.5.1 for special fire protection requirements if secondary containment of nonwater-miscible flammable or combustible liquids is to be achieved through the use of recessed floors or liquid-tight raised sills allowed under Section 7901.8.4.

Section 92. Subsection 7902.5.12.5.1 of the Uniform Fire Code is hereby repealed. Section 7902 of the Uniform Fire Code is amended by adding thereto a new subsection 7902.5.12.5.1 to read as follows:

**7902.5.12.5.1 Liquid storage warehouses-fire protection.** Liquid storage warehouses shall be protected by automatic sprinkler systems installed in accordance with the Building Code (see U.B.C. Standard 9-1) and Table 7902.5-F, 7902.5-G, 7902.5-H, 7902.5-I, 7902.5-J. In-rack sprinklers shall also comply with U.F.C. Standard 81-2.

Automatic-foam systems may only be used when approved by the Chief and shall be used if secondary containment of non-water miscible flammable or combustible liquids is achieved through the use of recessed floors or liquid-tight raised sills as allowed for in Section 7901.8.4.

Section 93. Section 7903 of the Uniform Fire Code is amended by adding thereto a new subsection 7903.4 to read as follows:

**7903.4 SOLVENT DISTILLATION UNITS**

**7903.4.1 Scope.** This section shall apply to solvent distillation units used to recycle Class I, II, or III-A liquids.

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- 2           **EXCEPTIONS:** 1. Solvent distillation units installed in dry-cleaning plants in accordance
- 3           with Section 3603.10.
- 4           2. Solvent distillation units used in continuous through-put industrial processes where the
- 5           source of heat is remotely supplied using steam, hot water, oil or other heat-transfer fluids,
- 6           the temperature of which is below the auto-ignition point of the solvent(s).
- 7           3. Solvent distillation units which are approved by the Chief for research, testing and
- 8           experimental processes.

9

10          Class I, II, or III-A liquids also classified as unstable (reactive) shall not be processed in solvent

11          distillation units.

12

13           **EXCEPTION:** Appliances listed for the distillation of unstable (reactive) solvents.

14

15          **7903.4.2 General.** Solvent distillation units shall comply with the following operating

16          requirements:

- 17          1. Solvent distillation units designed to process flammable liquids shall be listed for use in
- 18                Class I, Division 1 or 2 locations in accordance with Table 7901.4-A. Solvent distillation
- 19                units designed to process combustible liquids shall be listed in accordance with the Electrical
- 20                Code.
- 21          2. A means to automatically interrupt distillation and prevent collection containers and portable
- 22                tanks from overfilling shall be provided.
- 23          3. Safety limit controls which shut off the unit in the event of a malfunction that increases the
- 24                risk of fire or explosion shall be provided.
- 25          4. Distilled liquids shall be discharged at temperatures not to exceed 10°F below the flashpoint
- 26                and not over 140°F.
- 27          5. The maximum temperature of the unit distillation chamber shall not exceed the auto-ignition
- 28                temperature of the liquid being distilled.

**EXCEPTION:** Solvent distillation units installed prior to the effective date of this code which do

not meet all of the technical requirements set forth in this section may be approved by the Chief

when installed in Group H, Division 2 occupancies.

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2 **7903.4.3 Manufacturer's installation instructions.** An installation, maintenance and operating  
3 instruction manual shall be provided. The manual shall identify the liquids for which the unit has  
4 been listed for distillation purposes along with each liquid's flash point and auto-ignition  
5 temperature. For units with adjustable controls, the manual shall include directions for setting the  
6 heater temperature for each liquid to be distilled.

7  
8 **7903.4.4 Location.**

9 **7903.4.4.1 Inside Locations.** Solvent distillation units using quantities of flammable or  
10 combustible liquids exceeding the exempt amount for a Class I-A flammable liquid in closed use in  
11 accordance with Table 7903.2-B shall be installed in rooms or areas conforming to the Building  
12 Code requirements for Group H, Division 2 Occupancies.

13  
14 Solvent distillation units installed prior to the effective date of this code which do not meet the  
15 technical requirements set forth in Section 7903.4.2 may be approved by the Chief when installed in  
16 Group H, Division 2 occupancies.

17  
18 **7903.4.4.2 Outdoor Locations.** Solvent distillation units installed outside of buildings shall be  
19 located a minimum of 15 feet from public ways, property lines, combustible construction and exits  
20 and shall comply with all of the following:

- 21 1. The aggregate quantity of flammable and combustible liquids, including feed stock and  
22 product shall not exceed 100 gallons.  
23 2. Spill control is required in accordance with Section 7901.8.  
24 3. An attendant is required while the unit is in operation.  
25 4. The safeguards of Sections 7903.4.2 through 7903.4.10 shall apply.  
26 5. The unit shall be completely empty when unattended or shut down and the area secured by a  
27 6 foot high fence or other approved security.

28 **7903.4.5 Liquid-collection vessels.** Distilled liquids from solvent distillation units shall be  
collected in containers and portable tanks in accordance with the appliance's listing and Section  
7902.

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2 **7903.4.6 Grounding and bonding.** Solvent distillation units shall be grounded and bonded in  
3 accordance with manufacturer's instruction and Section 7901.  
4

5 **7903.4.7 Storage of liquids.** Distilled liquids and liquids awaiting distillation shall be stored in  
6 accordance with Section 7902.  
7

8 **7903.4.8 Storage of residue.** Hazardous residue from the distillation process shall be stored in  
9 accordance with Article 80.  
10

11 **7903.4.9 Portable fire extinguishers.** Approved portable fire extinguishers shall be provided in  
12 accordance with U.F.C. Standard 10-1, except as specified elsewhere in Article 79.  
13

14 **7903.4.9.1 Size and location.** At least one portable fire extinguisher having a rating of not less  
15 than 40B shall be located not less than 10 feet or more than 30 feet from any solvent distillation  
16 unit.  
17

18 Section 94. Subsection 8001.1.3 is amended to read as follows:

19 **8001.1.3 Application.** Section 8001 shall apply to all hazardous materials, including those  
20 materials regulated elsewhere in this code, except that when specific requirements are provided in  
21 other articles, those specific requirements shall apply.  
22

23 When a material has multiple hazards, all hazards shall be addressed.  
24

25 The provisions of ~~((Article 80 related to health hazards as classified in Section 8002 are))~~ this  
26 Art l be waived when the Chief has determined that such enforcement is preempted by other  
27 codes, statutes or ordinances or that, as a matter of fire and life safety, other satisfactory regulatory  
28 safeguards or satisfactory industry standards are in place. The details of any action granting such a  
waiver ~~((shall be))~~ may be, but are not required to be, recorded and entered in the files of the code  
enforcement agency.

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**POINT OF INFORMATION:**

The provisions relating to the storage and use of radioactive materials are waived and regulation of radioactive materials is deferred to the Washington State Department of Health, except that a no-fee permit, inventory statement and signs shall be provided as required by the Chief.

Section 95. Section 8001 of the Uniform Fire Code is amended by adding thereto a new subsection 8001.1.6 to read as follows:

**8001.1.6 Alternate materials and methods.** In particular installations, the provisions of Article 80 may be altered in accordance with Section 103.1.2 at the discretion of the Chief after consideration of the special features such as topographical conditions, barricades, walls, adequacy of building exits, nature of occupancies, proximity to buildings or adjoining property and the character of materials to be stored, nature of process, degree of private fire protection to be provided and the adequacy of facilities of the Fire Department to cope with hazardous material fires and releases.

Section 96. Section 8001 of the Uniform Fire Code is amended by adding thereto definitions to subsection 8001.2.2 to read as follows:

\* \* \*

**EMERGENCY POWER** is current supply such that in the event of failure of the normal supply to, or within the building or buildings concerned, power will be available within the time required for the application, but not to exceed 10 seconds. [National Electric Code Section 700-12]

\* \* \*

**STANDBY POWER** is current supply such that in the event of failure of the normal supply to, or within the building or buildings concerned, power will be available within the time required for the application, but not to exceed 60 seconds. [National Electric Code Section 701-11]

Section 97. Subsection 8001.3.2 of the Uniform Fire Code is hereby repealed. Section 8001 of the Uniform Fire Code is amended by adding thereto a new subsection 8001.3.2 to read as follows:

**8001.3.2 Hazardous materials management plan.** When required by the Chief, each application for a permit pursuant to Article 80 shall include a Hazardous Materials Management Plan (HMMP)

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in accordance with requirements stipulated by the Chief. See Appendix II-E.

Section 98. Subsection 8001.3.3 of the Uniform Fire Code is hereby repealed. Section 8001 of the Uniform Fire Code is amended by adding thereto a new subsection 8001.3.3 to read as follows:

**8001.3.3 Hazardous materials inventory statement.** When required by the Chief, each application for a permit pursuant to Article 80 shall include a Hazardous Materials Inventory Statement (HMIS) in accordance with requirements stipulated by the Chief.

Section 99. Subsection 8001.4.3.3 of the Uniform Fire Code is amended to read as follows:

**8001.4.3.3 Additional regulations for supply piping for health hazard materials.** Supply piping and tubing for gases and liquids having a health hazard ranking of 3 or 4 in accordance with U.F.C. Standard 79-3 shall also be in accordance with the following:

1. Piping and tubing utilized for the transmission of highly toxic or toxic material shall have welded or brazed connections throughout unless an exhausted enclosure is provided if the material is a gas, or the piping is provided with a receptor for containment if the material is a liquid,

**EXCEPTION:** Nonmetallic piping with approved connections.

2. Piping and tubing shall not be located within exit corridors, within any portion of an exit required to be enclosed in fire-resistive construction, or above areas not classified as Group H Occupancies,

**EXCEPTION:** Piping and tubing within the space defined by the walls of exit corridors and floor or roof above or in concealed space above other occupancies when installed in accordance with the Building Code as required for Group H, Division 6 Occupancies. See U.B.C. Section 307.11.6.2.

3. Where gases or liquids are carried in pressurized piping above 15 psig (103.4 kPa), excess flow control shall be provided. Where the piping originates from within a hazardous material storage room or area, the excess flow control shall be located within the storage room or area. Where the piping originates from a bulk source, the excess flow control shall be located as close to the bulk

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source as practical,

EXCEPTION: Where excess flow control is not appropriate according to nationally recognized standards of good practice.

and

4. Readily accessible manual or automatic remotely activated fail-safe emergency shutoff valves shall be installed on supply piping and tubing at the following locations:

4.1 The point of use, and

4.2 The tank, cylinder or bulk source.

Section 100. Subsection 8001.4.5.1 of the Uniform Fire Code is amended to read as follows:

**8001.4.5.1** Underground storage tanks. Underground storage tanks used for the storage of hazardous materials shall be:

1. Properly installed according to industry standards.
2. Equipped with devices that prevent spills and over-fills.
3. Protected (including piping) from corrosion.
4. When required by state and federal regulations.
  - a. equipped (including piping) with leak detection and,
  - b. provided with secondary containment (see also Article 79 of this Code).

**POINT OF INFORMATION:**

The Chief may defer regulation of underground storage tank installations to the Washington State Department of Ecology.

Section 101. The first paragraph of subsection 8001.5.1 of the Uniform Fire Code is amended to read as follows:

**8001.5.1 General.** Hazardous materials shall not be released into a sewer, storm drain, ditch, drainage canal, lake, river or tidal waterway, or upon the ground, sidewalk, street, highway or into the atmosphere.

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1  
2 In the event of a spill or accidental release of a hazardous material, inside or outside of buildings,  
3 that could present a fire or life safety hazard, the owner or occupant shall immediately report such a  
4 spill or release to the Fire Department.

5  
6 **EXCEPTIONS:** 1. Pesticide products and materials intended for use in weed abatement,  
7 erosion control, soil amendment or similar applications when applied in accordance with the  
8 manufacturer's instructions, label directions and in accordance with nationally recognized  
9 standards

10  
11 2. Materials released in accordance with federal, state or local government regulations or  
12 permits of the jurisdictional air quality management board with a national pollutant  
13 discharge elimination system permit, with waste discharge requirements established by the  
14 jurisdictional water quality control board, or with local sewer pretreatment requirements for  
15 publicly owned treatment works.

16  
17 Section 102. Subsection 8001.5.2.2 of the Uniform Fire Code is hereby repealed. Section 8001 of  
18 the Uniform Fire Code is amended by adding thereto a new subsection 8001.5.2.2 to read as  
19 follows:

20 **8001.5.2.2 Notification.** The Chief shall be immediately notified in the event of an unauthorized  
21 discharge of a hazardous material.

22  
23 Section 103. Subsection 8001.9.1.2 of the Uniform Fire Code is amended to read as follows:

24  
25 **8001.9.1.2 Fire department liaison.** When required by the Chief. ((R)) responsible persons shall  
26 be designated and trained to be liaison personnel for the Fire Department. These persons shall aid  
27 the Fire Department in pre-planning emergency responses and identification of the locations where  
28 hazardous materials are located and shall have access to material safety data sheets and be  
knowledgeable in the site emergency response procedures.

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Section 104. Subsection 8001.9.2 of the Uniform Fire Code is hereby repealed. Section 8001 of

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1  
2 the Uniform Fire Code is amended by adding thereto a new subsection 8001.9.2 to read as follows:

3  
4 **8001.9.2 Security.** The storage, dispensing, use and handling areas of hazardous materials shall be  
5 secured and protected against tampering or trespassers by fencing or other control measures.

6  
7 Section 105. Subsection 8001.11.1 of the Uniform Fire Code is hereby repealed. Section 8001 of  
8 the Uniform Fire Code is amended by adding thereto a new subsection 8001.11.1 to read as  
9 follows:

10  
11 **8001.11.1 Temporarily out-of-service facilities.** Facilities which are temporarily out-of-service  
12 shall continue to be permitted, monitored and inspected. Facilities for which a closure plan is  
13 required shall notify the Chief when the out-of-service period exceeds 15 days.

14  
15 Section 106. Subsection 8001.11.3 of the Uniform Fire Code is amended to read as follows:

16  
17 **8001.11.3 Plan.** When required by the Chief, ~~((F))~~ the permit holder or applicant shall submit a  
18 plan to the Fire Department to terminate storage, dispensing, handling or use of hazardous materials  
19 at least 30 days prior to facility closure when the out of service period exceeds 15 days. The plan  
20 shall demonstrate that hazardous materials which were stored, dispensed, handled or used in the  
21 facility have been transported, disposed of or reused in a manner that eliminates the need for further  
22 maintenance and any threat ~~((to public health and safety))~~ of fire and explosion. Such plan shall be  
23 submitted in accordance with Section 8001.~~((3-4))~~11.3.

24  
25 Section 107. Section 8001 of the Uniform Fire Code is amended by adding thereto a new  
26 subsection 8001.11.4 to read as follows:

27  
28 **8001.11.4 Notice.** No person, firm or corporation required to file a facility closure plan in  
accordance with Section 8001.11.3 shall abandon, remove, close or substantially modify a facility or  
other area regulated by Article 80 without prior approval from the Chief. (See also Section  
8001.11)

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**EXCEPTIONS:** 1. Routine maintenance.

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2. For emergency repair work performed on an emergency basis, application for permit shall be made within two working days of commencement of work.

The permit holder shall apply for approval to close storage, use or handling facilities at least 30 days prior to the termination of the storage, use or handling of hazardous materials. Such application shall include any change or alteration of the facility closure plan filed pursuant to Section 8001.11. This 30-day period may be waived by the Chief if there are special circumstances requiring such waiver.

Section 108. Section 8001.12.1 of the Uniform Fire Code is amended to read as follows:

**8001.12.1 General.** The aggregate quantity of nonflammable solid and nonflammable or noncombustible liquid hazardous materials within a single control area of a Group M retail or wholesale sales occupancy may, when approved by the Chief, ((is allowed to)) exceed the exempt amounts specified in Section 8001.13 when in accordance with Section 8001.12. The maximum quantity in pounds or gallons allowed within a single control area of a retail or wholesale sales occupancy may ~~((shall))~~ be the greater of the exempt amount derived from Section 8001.13 or the amount derived from the formula:

$$E^R = E \times R \times A$$

$$\text{For SI: } E^R = 10.8 \times E \times R \times A$$

Where:

$E^R$  = exempt amount allowed in a single control area of a retail or wholesale sales occupancy.

E = exempt amount specified in Section 8001.13.

R = multiplier for retail or wholesale sales occupancies from Table 8001.12-A.

A = area of the hazardous material retail display or storage in square feet(m<sup>2</sup>).

Section 109. Table 8001.13-A Footnote 10 of the Uniform Fire Code is amended to read as follows:

\* \* \* \*

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10. Quantities may be increased 100 percent when stored, dispensed or used inside ~~((in))~~

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approved ~~((storage cabinets))~~ exhausted gas cabinets, ~~((or))~~ exhausted enclosures or  
fume hoods ~~((as specified in Sections 8003.1.10, 8003.3.1.3.2 and 8003.3.1.3.3)).~~

When specifically approved under Fire Department permit, quantities may be increased  
in excess of 100 percent. When footnote 6 also applies, the increase for both footnotes  
(may be applied) is allowed.

**POINT OF INFORMATION:**

This is intended to allow the Fire Department to conditionally permit LP-gas for forklifts and acetylene used in numerous facilities without requiring a hazardous (H) occupancy.

The footnote applies to all hazard classes. Inspection guidelines will be developed to limit increases as appropriate per hazard class.

\* \* \* \*

Section 110. Table 8001.13-B Footnote 6 of the Uniform Fire Code is amended to read as follows:

\* \* \* \*

C. Quantities may be increased 100 percent when stored in approved storage cabinets, gas cabinets or exhausted enclosures as specified in Section 8003.1.10, 8003.3.1.3.2, and 8003.3.1.3.3. When specifically approved under Fire Department permit, quantities may be increased in excess of 100 percent. When Footnote 5 also applies, the increase for both footnotes may be ~~((applied))~~ adopted.

**POINT OF INFORMATION**

This is intended to allow the Fire Department to permit one 150 pound ammonia cylinder in use and one 150 pound ammonia cylinder in storage without requiring an H-7 occupancy. The footnote applies to other hazard classes. An inspection guideline will be developed to limit increases for this purpose.

\* \* \* \*

Section 111. Subsection 8003.1.1 of the Uniform Fire Code is amended to read as follows:

**8003.1.1 Applicability.** Storage of hazardous materials where the aggregate quantity is in excess of the exempt amounts set forth in Section 8001.13 shall be in accordance with Sections 8001 and 8003.

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2 Storage of hazardous materials where the aggregate quantity does not exceed the exempt amounts set  
3 forth in Section 8001.13 shall be in accordance with Section 8001.

4  
5 For display and storage in retail and wholesale sales occupancies, see Section 8001.12.

6  
7 ~~((Hazardous materials regulated by other articles are not required to be in accordance with Section  
8 8003 unless specifically indicated in Section 8003.))~~

9 Hazardous materials regulated by another article or articles shall also be in accord with Article 80,  
10 unless the Chief determines that the provisions in the other article or articles regarding specific  
11 quantities and safeguards for the hazardous materials provide adequate fire and life safety. A  
12 request for such a determination by the Chief shall be made in writing to the Chief. The Chief shall  
13 provide a written response, stating the Chief's determination and giving the reason for the  
14 determination, within a reasonable period of time. A record of such determinations shall be kept by  
15 the Fire Marshal's Office and made available to the public upon written request. Section 103.1.4.  
16 Appeals, shall not apply to such determinations by the Chief.

17  
18 Section 112. Subsection 8003.1.6 of the Uniform Fire Code is amended to read as follows:

19 **8003.1.6 Storage plan.** A storage plan shall be provided ~~((for all storage facilities))~~ when required  
20 by the Chief. The plan shall indicate the intended storage arrangement, including the location and  
21 dimensions of aisles.

22  
23 **EXCEPTION:** An additional storage plan will not be necessary if previously submitted as  
24 part of a hazardous materials management plan.

25  
26 Section 113. Subsection 8003.1.14.1 of the Uniform Fire Code is amended to read as follows:

27  
28 **8003.1.14.1 General.** Limit controls and warning devices shall be provided in accordance with  
Section 8003.1.14.

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3. The Chief may accept audible warning systems or limit the contents of the tank by other means.

Section 115. Subsection 8003.13 of the Uniform Fire Code is amended to read as follows:

**8003.13 Radioactive Materials.**

**POINT OF INFORMATION:**

The provisions relating to the storage and use of radioactive materials and regulation of radioactive materials are deferred to the Washington State Department of Health, except that a no-fee permit, inventory statement and signs shall be provided as required by the Chief.

Section 116. Subsection 8003.15 of the Uniform Fire Code is hereby repealed. Section 8003.15 of the Uniform Fire Code is amended by adding thereto a new subsection 8003.15 to read as follows:

**8003.15 Carcinogens, Irritants, Sensitizers and Other Health Hazard Solids, Liquids and Gases.**

**8003.15.1 General.** Indoor and outdoor storage of carcinogens, irritants, sensitizers and other health hazard solids, liquids and gases shall be in accordance with Section 8003.15.

**8003.15.2 Permits.** A no fee permit shall be obtained to store and/or use a health hazard solid, liquid or gas in excess of the permit threshold quantities specified in Section 105.8 (Tables 105-A and 105-C).

**8003.15.3 Building signs.** Visible hazard identification signs as specified in UFC Standard 79-3 shall be placed at entrances to locations where other health hazard materials are stored, dispensed, used or handled in quantities requiring a permit. The Chief shall designate the specific entrances where signs are required. The Chief may waive this requirement in special cases when consistent with safety.

**8003.15.4 Container labeling.** Individual containers, cartons or packages shall be conspicuously marked or labeled in accordance with nationally recognized standards or as approved by the Chief.

**8003.15.5 Inventory statements and site maps.** When required by the Chief, each application for a permit pursuant to Section 8003.15 shall include a Hazardous Material Inventory Statement

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2 **8003.15.5 Inventory statements and site maps.** When required by the Chief, each application for  
3 a permit pursuant to Section 8003.15 shall include a Hazardous Material Inventory Statement  
4 (HMIS) in accordance with requirements stipulated by the Chief.

5  
6 When required by the Chief, each application for a permit pursuant to Section 8003.15 shall include  
7 a Hazardous Materials Site Map in accordance with requirements stipulated by the Chief.

8  
9 Section 117. Subsection 8004.1.1 of the Uniform Fire Code is hereby repealed. Section 8004 of  
10 the Uniform Fire Code is amended by adding a new subsection 8004.1.1 to read as follows:

11  
12 **8004.1.1 Applicability.** Use, dispensing and handling of hazardous materials where the aggregate  
13 quantity is in excess of the exempt amounts set forth in Section 8001.13 shall be in accordance with  
14 Sections 8001 and 8004.

15  
16 Use, dispensing and handling of hazardous materials where the aggregate quantity does not exceed  
17 the exempt amounts set forth in Section 8001.13 shall be in accordance with Section 8001. For  
18 flammable, oxidizing and pyrophoric gases, see also Section 8001.14.

19 Hazardous materials regulated by another article or articles shall also be in accord with Article 80,  
20 unless the Chief determines that the provisions in the other article or articles regarding specific  
21 quantities and safeguards for the hazardous materials provide adequate fire and life safety. A  
22 request for such a determination by the Chief shall be made in writing to the Chief. The Chief shall  
23 provide a written response, stating the Chief's determination and giving the reason for the  
24 determination, within a reasonable period of time. A record of such determinations shall be kept by  
25 the Fire Marshal's Office and made available to the public upon written request. Section 103.1.4,  
26 Appeals, shall not apply to such determinations by the Chief.

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harmful fumes, mists or vapors based on applicable recognized standards.

Section 119. Subsection 8004.2.2.3 of the Uniform Fire Code is hereby repealed.

Section 120. Article 80 of the Uniform Fire Code is amended by adding thereto a new Section 8005 to read as follows:

**SECTION 8005 -- TRANSPORTATION**

**8005.1 Inspections of vehicles.** In order to determine compliance with Article 80, the Chief, upon presenting identification to the owner, agent or operator, is authorized to enter and inspect all vehicles,

including equipment, containers and labelling therein. Rules governing the conduct of regular, uniform and systematic inspection, entry and, where appropriate, impoundment of vehicles, shall be adopted by the Chief, pursuant to Section 101.4 of this Code.

**8005.1.1 Definitions.** For purposes of Article 80, "vehicles" means:

1. Every "combination of vehicles", "commercial vehicle", "motor truck", "motor vehicle", "semitrailer", "trailer", "truck tractor", or "vehicle", all as defined in the Traffic Code, Seattle Municipal Code, Chapter 11.14; and
2. Container, cargo container, tank container, and overseas van, whether or not connected to a chassis.

**8005.1.2 Inspections of buildings.** Regular inspections of buildings and premises to determine compliance with this article shall be conducted pursuant to the provisions of Article 1 of this code.

**8005.1.3 Records.** The Chief shall make a record of inspection and a copy of said record shall be provided to the owner, operator, or agent, or attached to the vehicle. When necessary, vehicles shall be resealed using a Fire Department seal.

**8005.2 Impoundment.** In the event of a violation of Article 80 and in the event that further unrestricted movement of a vehicle may constitute a danger to persons or property, the Chief may

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2 order the impoundment of such vehicles and the immediate correction of the violation.

3  
4 **8005.3 Access.** Upon the refusal of an owner, agent or operator to allow entry or inspection by  
5 the Chief acting under the authority of Section 8005.1, the Chief shall order the impoundment of the  
6 vehicle, and shall proceed to the Municipal Court of the City of Seattle and request an inspection  
7 warrant to complete the inspection.

8  
9 The provisions of this section shall not limit the authority of the Chief to enter and inspect vehicles  
10 if there is probable cause to believe there exists a violation of this Article therein.

11  
12 **8005.4 Failure to comply.** Failure to comply with the order of the Chief concerning the  
13 impoundment of vehicles under Section 8005.1, or the failure to stop for purposes of allowing a  
14 request for inspection to be made pursuant to Section 8005.1, or the failure to permit inspection  
15 pursuant to a lawfully issued inspection warrant shall constitute a crime as provided for in Chapter  
16 12A of the Seattle Municipal Code.

17  
18 **8005.5 Crimes.** Any person, firm, corporation, or unincorporated association operating or  
19 maintaining any vehicle in violation of this article shall be guilty of a crime as provided for in  
20 Chapter 12A of the Seattle Municipal Code.

21 **8005.6 Unattended Vehicles**

22 **8005.6.1 General.** A vehicle containing or carrying hazardous materials shall not be left  
23 unattended at any time on any residential street, nor in or within 500 feet of any building containing  
24 a Group R, E or I occupancy, including any dwelling, apartment, hotel, day care, school, hospital  
25 or health care facility.

26  
27 For the purposes of Section 8005.6, a vehicle shall be deemed to be unattended whenever the driver  
28 cannot see the vehicle or hear noises in or near the vehicle.

**8005.6.2 Prohibition.** In locations other than those specified in Section 8005.6.1, a driver shall  
not leave a vehicle containing or carrying hazardous materials unattended on any street, highway,

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avenue, alley, or in any parking lot.

**EXCEPTIONS:** 1. The necessary absence in connection with loading and unloading the vehicle.

2. Stops for meals during the day or night, if the street is well lighted at the point of parking.

3. When, in case of accident or other emergency, the operator must leave to obtain assistance.

**8005.6.3 Transfers.** Vehicles transferring liquids and/or gases by means of hose line shall never be left unattended during the transfer process.

Section 121. Subsection 8102.8.1 of the Uniform Fire Code is amended by adding thereto an exception to read as follows:

**8102.8.1 Small hose stations.** When small hose valves and stations are required by Table 81-A, approved 1½-inch (38.1mm) hose valves shall be provided at approved locations. When required by the Chief hose, nozzles, hose racks, and cabinets or covers shall be provided. See U.F.C. Standards 81-1 and 81-2.

**EXCEPTION:** The Chief may waive the hose station requirement for small areas (2,500 square feet or less) and/or cold storage buildings.

Section 122. Subsection 8202.1 of the Uniform Fire Code is hereby repealed. Section 8202 of the Uniform Fire Code is amended by adding thereto a new subsection 8202.1 to read as follows:

**8202.1 Permits and Plans.** A permit is required for storage or use of liquified petroleum gas (LPG) where noted on Table 8202-A and for any container or tank exceeding 20 gallons (100 lbs.) LP-Gas capacity.

**EXCEPTION:** Tanks of 125-gallon aggregate water capacity or less that are located at residential occupancies and used for heating purposes only. CS 19.2

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Distributors shall not fill an LP-gas container for which a permit is required unless a permit for installation has been issued for that location by the chief.

Where a single container is over 2,000-gallon (7,571L) water capacity or the aggregate capacity of containers is over 4,000-gallon (15,142L) water capacity, the installer shall submit plans for such installation.

**8202.1.1 Tank storage.** Tank and container storage and use shall conform to this Article and Uniform Fire Code Standard 82-1 except where requirements of the Article and Standard are modified by Table 8202-A.

**8202.1.2 Prohibition.** Tank storage is prohibited in the Fire District.

**EXCEPTION:** Tanks up to 500 gallons LP-gas capacity are permitted west of Alaskan Way.

**8202.1.3 Permit not required.** A permit is not required for transportation of LPG in U.S. Department of Transportation (DOT) approved cylinders or tanks except:

1. Tank delivery vehicles shall have a tank vehicle permit.
2. Tanks and containers larger than 20 gallons (100 lbs.) capacity are prohibited in the Fire District east of Alaskan Way.
3. Intermodal shipping containers for water transit shall be stored and handled under Seattle Fire Department Master Harbor Permit.

A permit is not required for highway or construction vehicle fuel tanks, except use of LPG fueled construction or maintenance equipment in a basement is prohibited unless authorized by specific job site permit. Accessory fuel tanks on vehicles do not require a permit except for tanks over 20 gallons (100 lbs.) in size or vehicles serving an outdoor assembly event.

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Section 123. Subsection 8202.2 of the Uniform Fire Code is amended to read as follows:

**8202.2 Records.** Installers shall maintain a record of installations involving more than 60 gallons for which a permit is not required by Section ((405)) 8202.1 and have such record available for inspection by the Chief.

**EXCEPTION:** Installation of gas-burning appliances and replacement of portable cylinders.

Section 124. Article 82 of the Uniform Fire Code is amended by adding thereto a new Table 8202-A to read as follows:

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TABLE 8202-A---LIQUIFIED PETROLEUM GAS PERMIT REQUIREMENTS

ACTIVITY	LOCATION	OCCUPANCY	MAXIMUM CONTAINER SIZE GAL. (Lbs.)	MAXIMUM TOTAL QUANTITY GAL. (Lbs.)	PERMIT THRESHOLD AMOUNT GAL. (Lbs.)
Hand Torches	Any	A, E, I	1 qt.	1 (5)	> 1 qt. container or > 2 gallons aggregate quantity.
		Any except A, E, I	1 qt.	2 (10)	
Jeweler, Dental labs	Any	B	2 (10)	2 (10)	> 2 gallon container or > 2 gallons aggregate quantity.
Forklifts	Fire District or basement	Any except A	10 (50)	40 (200)	30 (150)
	Elsewhere	Any except A	10 (50)	60 (300)	
	Any	A when occupied	0	0	
Refrigeration/Processes and Accessory Fuel Tanks	Any	B, H, or outdoors	N/A	60 (300)	0
Hot Roof Tar Kettles (0-600 GAL.)	Fire District	Any	20 (100)	40 (200)	0
	Elsewhere	Any	20 (100)	80 (400)	0
Hot Roof Burner Units (Forches)	Fire District	Unoccupied Building	6 (30)	70 (350)	0
		Occupied Building	6 (30)	28 (135)	0
	Other	Unoccupied Building	6 (30)	70 (350)	0
		Occupied Building	6 (30)	28 (135)	0

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TABLE 8202-A--LIQUIFIED PETROLEUM GAS PERMIT REQUIREMENTS

OCCUPANCY	MAXIMUM CONTAINER SIZE GAL. (Lbs.)	MAXIMUM TOTAL QUANTITY GAL. (Lbs.)	PERMIT THRESHOLD AMOUNT GAL. (Lbs.)	COMMENTS
A, E, I	1 qt.	1 (5)	>1 qt. container or > 2 gallons aggregate quantity.	Permit required for open flame in assembly or marina.
Any except A, E, I	1 qt.	2 (10)		
B	2 (10)	2 (10)	> 2 gallon container or > 2 gallons aggregate quantity.	
Any except A	10 (50)	40 (200)	30 (150)	No bobtail refueling. See Footnote 2.
Any except A	10 (50)	60 (300)		H-occupancy required if in excess of maximum total quantity.
A when occupied	0	0	0	Special permit required for any use.
B, H, or outdoors	N/A	60 (300)	0	
Any	20 (100)	40 (200)	0	Job site notice required. Prohibited on rooftop, pier or combustible deck.
Any	20 (100)	80 (400)	0	Prohibited on rooftop, pier, or combustible deck.
Unoccupied Building	6 (30)	70 (350)	0	Permit required for each job site.
Occupied Building	6 (30)	28 (135)	0	Permit required for each job site. See Footnote 1.
Unoccupied Building	6 (30)	70 (350)	0	Permit not required for each job site.
Occupied Building	6 (30)	28 (135)	0	Permit not required for each job site.

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TABLE 8202-A--LIQUIFIED PETROLEUM GAS PERMIT REQUIREMENTS

ACTIVITY	LOCATION	OCCUPANCY	MAXIMUM CONTAINER SIZE GAL. (Lbs.)	MAXIMUM TOTAL QUANTITY GAL. (Lbs.)	PERMIT THRESHOLD AMOUNT GAL. (Lbs.)	
Hot Roof Tank Trucks	Fire District	Outside	20 (100)	40 (200)	0	Permit Prohibit
	Elsewhere	Outside	300 (1,500)	300 (1,500)	0	Permit Prohibit
Indoor cooking Tablesides, food warming	Any	B, A	1 qt.	5 (25)	0	
		Other	5 (25)	5 (25)	0	R1 &
Outdoor Cooking	Fire District	A, E, I	5 (25)	10 (50)	0	Repeat booth.
	Elsewhere	A, E, I	10 (50)	30 (150)	0	Repeat booth.
		With manifold	20 (100)	80 (400)	0	Reduce not sep
	Any	B	5 (25)	10 (50)	0	
Storage and Sales Miscellaneous	Any	Any	8 oz.	1 (5)	> 8oz. container or > 1 gallon aggregate quantity.	
Storage and Sales -- Containers less than 5 gallons but larger than 8 oz. <small>CS 192</small>	Fire District and any sprinklered building	F, M, S	1 qt.	15 (75)	> 1 qt. container or > 15 gallons aggregate quantity	Contain
	Elsewhere	F, M, S H-2	1 qt. 2,000(10,000)	15 (75) 30 (150)	> 1 qt. container or > 15 gallons aggregate quantity.	Contain Also ap

TABLE 8202-A---LIQUIFIED PETROLEUM GAS PERMIT REQUIREMENTS

OCCUPANCY	MAXIMUM CONTAINER SIZE GAL. (Lbs.)	MAXIMUM TOTAL QUANTITY GAL. (Lbs.)	PERMIT THRESHOLD AMOUNT GAL. (Lbs.)	COMMENTS
Outside	20 (100)	40 (200)	0	Permit required for each job site. Prohibited over combustible construction.
Outside	300 (1,500)	300 (1,500)	0	Permit required for each job site. Prohibited over combustible construction.
B, A	1 qt.	5 (25)	0	R1 & R3 Occupancies exempt from permit.
Other	5 (25)	5 (25)	0	
A, E, I	5 (25)	10 (50)	0	Repeat at 30 feet.
A, E, I	10 (50)	30 (150)	0	Repeat at 30 feet. Maximum of 3 containers per booth.
With manifold	20 (100)	80 (400)	0	Reduce total quantity to 30 gallons when storage is not separated from public by 30 ft. or a fire wall.
B	5 (25)	10 (50)	0	
Any	8 oz.	1 (5)	> 8oz. container or > 1 gallon aggregate quantity.	
Any	1 qt.	15 (75)	> 1 qt. container or > 15 gallons aggregate quantity	Containers prohibited in basements.
F, M, S	1 qt.	15 (75)	> 1 qt. container or > 15 gallons aggregate quantity.	Containers prohibited in basements.
H-2	2,000(10,000)	30 (150)		Containers prohibited in basements. Also applies to larger containers.

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TABLE 8202-A---LIQUIFIED PETROLEUM GAS PERMIT REQUIREMENTS

ACTIVITY	LOCATION	OCCUPANCY	MAXIMUM CONTAINER SIZE GAL. (Lbs.)	MAXIMUM TOTAL QUANTITY GAL. (Lbs.)	PERMIT THRESHOLD AMOUNT GAL. (Lbs.)	
Storage and sales -- 5 gallon containers	Fire District	Any	0	0	N/A	
	Elsewhere	F, M, S	5 (25)	15 (75)	> 5 gallon container or > 15 gallons aggregate quantity	
Storage and sales -- 20 gallon containers						
Wholesale	Any	F, M, S	20 (100)	40 (200)	30 (150)	Auton
Service	Any	F, H-4, M, S	20 (100)	60 (300)	30 (150)	With
Wholesale/service	Any	Outdoors	20 (100)	Per Permit	60 (300)	See S
Buildings under construction or undergoing major repair	Any	Any	20 (100)	60 (300) per floor 360 (1,800) per site	0	
Demonstrations Except Food Booths	Any	A	2 (10)	2 (10)	0	The p with a appro demon minim

N/A = Not Applicable

- 1 Population density and occupancy activities shall be considered and quantities reduced as appropriate prior to permit issuance.
- 2 Refueling of forklift tanks (on or off forklifts) from bulk tankers.

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TABLE 8202-A---LIQUIFIED PETROLEUM GAS PERMIT REQUIREMENTS

OCCUPANCY	MAXIMUM CONTAINER SIZE GAL. (Lbs.)	MAXIMUM TOTAL QUANTITY GAL. (Lbs.)	PERMIT THRESHOLD AMOUNT GAL. (Lbs.)	COMMENTS
Any	0	0	N/A	
F, M, S	5 (25)	15 (75)	> 5 gallon container or > 15 gallons aggregate quantity	
F, M, S F, H-4, M, S Outdoors	20 (100) 20 (100) 20 (100)	40 (200) 60 (300) Per Permit	30 (150) 30 (150) 60 (300)	Automatic sprinklers required. With or without sprinklers. See Section 5-4, U.F.C. Standard 82-1.
Any	20 (100)	60 (300) per floor 360 (1,800) per site	0	
A	2 (10)	2 (10)	0	The permit amount may be increased with additional safeguards and the approval of the Fire Chief. Similar demonstrations must be separated by a minimum of 50 feet.

considered and quantities reduced as appropriate prior to permit issuance.  
bulk tankers.

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Section 125. Section 8701 of the Uniform Fire Code is amended to read as follows:

**SECTION 8701 -- SCOPE**

Buildings undergoing construction, alteration or demolition shall be in accordance with Article 87.

The provisions of this Article may be waived when the Chief has determined that such enforcement is preempted by other codes, statutes or ordinances or that, as a matter of fire and life safety, other satisfactory regulatory safeguards or satisfactory industry standards are in place. The details of any action granting such a waiver may be, but are not required to be, recorded and entered in the files of the code enforcement agency.

Section 126. Subsection 8704.4.3 of the Uniform Fire Code is hereby repealed. Section 8704 of the Uniform Fire Code is amended by adding thereto new subsection 8704.4.3 to read as follows:

Subsection 8704.4.3 Standpipes is replaced in its entirety by Seattle Building Code Section 904.6. See Appendix IV-D.

Section 127. Section 8707 of the Uniform Fire Code is amended by adding thereto a point of information to read as follows:

**SECTION 8707 -- ASBESTOS REMOVAL**

**POINT OF INFORMATION:**

The provisions relating to the removal of asbestos materials and regulation of asbestos-containing materials are deferred to the Puget Sound Air Pollution Control Agency.

Section 128. The Uniform Fire Code is amended by adding thereto a new Article, Article 190 to read as follows:

**ARTICLE 190**

**RESIDENTIAL OCCUPANCIES FOUR STORIES AND OVER**

**SECTION 19001 -- GENERAL**

**19001.1 Definitions.** The following words and terms shall have the meaning specified in Section 19001.1:

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**APARTMENT HOUSE:** Any building or portion thereof, containing three (3) or more dwelling units.

**APARTMENT HOTEL:** A building containing both dwelling units and guest rooms.

**GUEST ROOM:** Any room or rooms used or intended to be used for sleeping purposes by a person hiring such room or rooms.

**HOTEL:** A building in which is conducted the business of lodging the public and which contains six (6) or more guest rooms.

**19001.2 Exit Enclosure Required.** All existing apartment houses, apartment hotels and hotels four (4) stories or more in height, shall have at least two (2) fully enclosed stairways which have a one-hour fire-resistive rating throughout. The interior corridors and egressways thereof, including all doors, transoms and other openings into corridors, shall be constructed or improved to substantially have a one-hour fire-resistive rating throughout. In buildings constructed as apartment houses in accordance with the Building Code and being operated as apartment houses, walls and ceilings of plaster on wood lath or 1/2-inch plasterboard construction, and 1-3/8-inch solid core doors or equivalent shall be sufficient to meet the requirements of this section.

**19001.3 Sprinkler Alternative.** In lieu of compliance with the requirements of Section 19001.2, approved automatic fire sprinkler systems may be installed in all stairways, interior corridors and egressways of existing apartment houses, apartment hotels, and hotels four (4) stories or more in height. Automatic sprinkler systems, if so installed, shall also be installed in all janitor rooms, storage closets, utility rooms, and other usable spaces in which combustible materials are or may be sorted or kept, unless such rooms or spaces are equipped with self-closing fire doors having a one-hour fire-resistive rating.

Section 129. The Uniform Fire Code is amended by adding thereto a new Article, Article 191 to read as follows:

**ARTICLE 191**

**AUTOMATIC SPRINKLER SYSTEMS IN NURSING HOMES**

**SECTION 19101 -- SCOPE**

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**19101.1 Nursing Home Defined.** The term "nursing home" when used in this Article means any

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2 home, place, or institution which operates or maintains facilities providing convalescent or chronic  
3 care, or both, for a period in excess of 24 consecutive hours for three (3) or more patients not  
4 related by blood or marriage to the operator, who by reason of illness or infirmity, are unable  
5 properly to care for themselves. Convalescent and chronic care may include, but is not limited to  
6 any or all procedures commonly employed in waiting on the sick such as administration of  
7 medicines, preparation of dressings and bandages, and carrying out of treatment prescribed by a  
8 duly licensed practitioner of the healing arts. It may also include care of mentally incompetent  
9 persons if they do not require psychiatric treatment by or under the supervision of a physician  
10 specialized in the field of medicine. Nothing in this definition shall be construed to include general  
11 hospitals or other places which provide care and treatment for the acutely ill and maintain and  
12 operate facilities for major surgery or obstetrics, or both. Nothing in this definition shall be  
13 construed to include any boarding home, guest home, hotel or related institution which is held forth  
14 to the public as providing, and which is operated to give only board, room and laundry to persons  
15 not in need of medical or nursing treatment or supervision, except in the case of temporary acute  
16 illness. The mere designation by the operator of any place or institution, which does not provide  
17 care for the acutely ill or maintain and operate facilities for major surgery or obstetrics, as a  
18 hospital, sanitarium, or similar name shall not exclude such place or institution from the provisions  
19 of Section 19102.

20 **SECTION 19102 -- INSTALLATION OF EQUIPMENT**

21 **19102.1 Installation Exceptions.** Approved automatic fire sprinkler systems shall be installed in  
22 all usable rooms, corridors, and stairways of existing nursing homes with the following exceptions:

- 23 1. Nursing homes which are of Type I or II construction throughout, as defined in the  
24 Building Code.  
25 2. Nursing homes not more than one story in height which have interiors with a one-hour  
26 fire resistance rating throughout.

27  
28 Section 130. The Uniform Fire Code is amended by adding thereto a new Article, Article 192 to  
read as follows:

**ARTICLE 192**

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**AUTOMATIC SPRINKLER SYSTEMS IN SCHOOLS**

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**SECTION 19201 -- GENERAL**

**19201.1 School Buildings Defined.** The term "school building," when used in this Article means:

1. A public place of instruction operated by public authorities, including elementary and secondary schools.
2. A place of instruction operated by private persons or private or religious organizations in which the course of study is similar to that in a public school, and which has been authorized by the State as an educational institution.

**SECTION 19202 -- INSTALLATION OF EQUIPMENT**

**19202.1 Installation Exceptions.** An approved automatic fire sprinkler system shall be installed in all usable rooms, corridors and stairways of existing school buildings, two (2) stories or more in height, with the following exceptions:

1. School buildings which are of Type I or II construction as defined in the Building Code.
2. School buildings not over three (3) stories in height which have interiors with one-hour fire resistance rating throughout, and which have egress enclosures with a one-hour fire resistance rating.
3. School buildings, not over three (3) stories in height, with interiors which substantially have a one-hour fire resistance rating, need only have egress corridors, stairways, janitor rooms, storage rooms and similar spaces equipped with approved automatic sprinkler systems. Classrooms and assembly rooms in such buildings need not be so equipped.

Section 131. The Uniform Fire Code is amended by adding thereto a new Article, Article 193 to read as follows:

**ARTICLE 193**

**MINIMUM STANDARD FOR HIGH-RISE BUILDINGS**

**SECTION 19301 -- GENERAL**

**19301.1 Purpose.** The main purpose of this article is to improve the fire and life safety of existing high-rise buildings that do not conform to current City codes so that the health, safety and welfare of the general public is provided for and promoted. It is recognized that the application of present day fire protection techniques to some existing high-rise buildings is difficult. For this reason, this article may permit the use of alternative methods and innovative approaches and techniques to

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2 achieve its purpose, when approved by the Chief and the Building Official.

3  
4 **19301.2 Scope.** This article shall apply to all high-rise buildings in existence at the time of its  
5 adoption, as well as to all high-rise buildings coming into existence after the adoption thereof.

6  
7 **19301.2.1 Hazards and design features.** Whenever the Chief shall find a condition in a high-rise  
8 building not specifically addressed in this Article, which in his opinion makes fire escape or fire  
9 fighting unusually difficult, he shall declare it to be a hazard, notify the owner of such condition  
10 and order its correction in a manner consistent with these minimum safeguards.

11  
12 **19301.2.2 Exempt Buildings.** The Chief and the Director of the Department of Construction and  
13 Land Use may exempt high-rise buildings that meet the requirements of Section 403 of the Building  
14 Code from complying with provisions of this Article.

15  
16 **19301.2.3 Conflicts.** Where there is a conflict between an ordinance or code and the provisions of  
17 this article, this article shall govern unless the ordinance or code establishes more stringent fire and  
18 life safety requirements.

19  
20 **19301.3 Definitions.** For the purpose of this Article, certain words shall be construed as specified  
21 in this section.

22 **CENTRAL STATION:** A fire alarm reporting service listed by the Underwriters  
23 Laboratories or authorized by the Chief to report alarms to the Seattle Fire Department Alarm  
24 Center. In lieu of connection to a central station listed by Underwriters Laboratories, the  
25 Chief may approve building staff monitoring of a fire alarm annunciator panel where:

- 26  
27 1. Such staff are properly trained to monitor the annunciator panel and report alarm  
28 signals to the Fire Department Alarm Center via the 9-1-1 system.
2. One or more building staff is on duty 24 hours a day and, remains in the direct  
vicinity of the annunciator panel, e.g., a hotel desk clerk where the panel is behind

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the registration desk.

3. Staff persons in low income high-rise buildings whose primary duty requires them to be at the front desk are available.

**DEAD-END CORRIDOR:** A corridor which permits only one direction of travel from a unit or normally occupied room door to an exit, or which intersects an exit corridor on one end and does not provide an exit path on the other end. A corridor which has fire escapes directly accessible from it is not a dead-end corridor.

**FLOOR USED FOR HUMAN OCCUPANCY:** A floor designed and intended for occupancy by one or more persons for any part of a day, including a roof garden and an active storage area. An area that is permanently unoccupied or is occupied for the service of building equipment only is not included in this definition.

**HIGH-RISE BUILDING:** Buildings having floors used for human occupancy located more than 75 feet above the lowest level of Fire Department vehicle access.

**LOW INCOME RESIDENTIAL BUILDINGS:** Are defined for this Article as those buildings that meet the following requirements:

1. At least fifty percent (50%) of the dwelling or housing units as defined in the Housing Code (Seattle Municipal Code Ch. 22.204) are rented to non-transient persons at a rent at or below .9% of the current median income for all families in the Seattle area as determined by the United States Department of Housing and Urban Development; and
2. The average monthly rent for all dwelling or housing units in the building does not exceed 1.4% of the Median Income Limit.

For purposes of calculating the average monthly rent, a room which is rented on a hostel-style basis to three (3) or more non-related persons shall be considered as one room rented

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2 for \$200 per month.

3  
4 Monthly rent shall include all charges for shelter and provision of items normally associated  
5 with such use, but shall not include board, health care, telephone charges and other such  
6 items.

7  
8 **SECTION 19302 -- EXITS**

9  
10 **19302.1 General.** All exits in high-rise buildings shall be illuminated as required in Section 1211  
11 of this Code and enclosed with a minimum of one-hour fire resistive construction. Every high-rise  
12 building shall have at least one such exit. Where existing exterior fire escapes are used for  
13 addition: exits, they shall be tested and identified as required in Section 19302.3.

14  
15 **19302.2 Smokeproof enclosure.** Where a high-rise building has a single, enclosed exit, the  
16 enclosure shall be continued to the exterior of the building and the exit shall be smoke-proof by  
17 mechanical ventilation in accordance with Section 3310 of the 1982 Seattle Building Code, or shall  
18 be mechanically pressurized with fresh air to 0.15 inches water column and shall have a concurrent  
19 2500 cubic feet per minute (CFM) exhaust to atmosphere in an emergency, in accordance with the  
20 provisions of the Building Code.

21 **EXCEPTIONS:** 1. Pressurization may be omitted when the building has an approved  
22 automatic sprinkler system, all corridor openings are self-closing, all occupied areas have  
23 access to a second means of egress or a fire escape and the omission is approved by the  
24 Chief.

25  
26 2. A single stair may exit through a building lobby, where the lobby is of non-combustible  
27 construction, does not contain combustible furnishings, and is separated from the rest of the  
28 building by one-hour construction. Wire-glass protected by sprinklers on both sides may be  
accepted as one-hour construction. Where the lobby contains no combustible materials, wire-  
glass need only be protected by sprinklers on the side opposite the lobby. CS 19 2

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**19302.3 Fire Escapes.** Exterior fire escapes shall be accessible and structurally safe at all times. Owners of high-rise buildings shall load test fire escapes at least once every five (5) years with a weight of not less than 100 lb/sq. foot. The results of such a load test shall be submitted in writing to the Chief. In lieu of such a test, the Chief may accept the opinion of a structural engineer licensed by the State of Washington describing his inspection and/or tests and stating that the fire escape is structurally safe and will support a load of 100 lb/sq. foot. There shall be signs approved by the Chief clearly identifying the route of access to the fire escape from every public corridor. Fire escapes which are not maintained structurally safe and not otherwise required by provisions of the Fire Code shall be removed.

Locked doors or windows are prohibited between public corridors and fire escapes.

**EXCEPTIONS:** Where all of the following criteria are met and approved by the Chief:

1. An identified tool or device for opening the locked door or window is permanently affixed in close proximity to the locked point.
2. The area around the locked door or window is served by emergency illumination.
3. Clearly understandable directions indicating the use of the tool and the route to the fire escape are posted at the locked door or window.

**19302.4 Doors.** All exit doors in the path of exit travel shall be self-closing or automatic closing in accordance with Section 713.6 of the Building Code. Doors held open by fusible links, and sliding or vertical doors are prohibited in exit-ways. Stairway doors shall be self-latching.

**19302.5 Unlocking of doors.** Stairway doors, including the doors between any stairway and the roof, shall not have locks or shall unlock automatically whenever a fire alarm is activated in the high-rise building. Such locks shall unlock automatically when power is off (fail safe). Where the only locked door in a stair shaft is the one that leads to the roof, it may be locked by panic hardware or approved alarm lock paddle bars.

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**19302.6 Egress from stairways.** Enclosed stairways serving more than six (6) floors shall have

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2 two (2) means of egress from the stairway. Enclosed stairways serving ten (10) or more floors shall  
3 have re-entry into the building at approximately 5-story intervals. Re-entry signs shall be posted in  
4 the stair.

5  
6 **EXCEPTIONS:** 1. Jails.

7 2. Where telephones connected to a 24-hour manned location are provided in the stairway in  
8 each 5-floor increment that does not have a means of egress.

9 3. Where any door serving as an entrance to the stair does not automatically lock behind a  
10 person entering the stair.

11 4. Where alternate means of alerting building management to persons trapped in a stairwell are  
12 approved by the Building Official.

13  
14 **SECTION 19303 -- DEAD-END CORRIDORS**

15 Dead-end corridors are limited to 75 feet in length in office occupancies and 30 feet in length in all  
16 other occupancies. Where such limits are exceeded, automatic sprinkler protection meeting the  
17 requirements of the Fire Code and the Building Code shall be provided for the entire dead-end  
18 corridor, with one head on the room side of each door opening onto the corridor. Domestic water  
19 systems may be used to supply such sprinklers when approved by the Chief.

20 **EXCEPTIONS:** 1. In high-rise buildings, inactive doors leading from the dead-end corridor  
21 into spaces which are not in normal use may be covered with 5/8" type "x" gypsum board or  
22 its equivalent, in lieu of installing a sprinkler head over the door or smoke detector in the  
23 room.

24 2. In office occupancies, sprinkler heads on the room side of each door opening onto the  
25 corridor need not be installed.

26 3. In residential buildings, where corridors and each guest room are equipped with electrically  
27 supervised smoke detectors connected to the building fire alarm system, sprinkler heads, or any  
28 combination thereof. Where smoke detectors are used in rooms in lieu of sprinklers, doors  
must be rated at 20 minutes and must be self-closing.

4. In office occupancies, sprinkler systems are not required in a dead-end corridor where the  
corridor is equipped with smoke detectors and each room opening onto the corridor is equipped  
with at least one smoke detector. Such detector shall be electrically supervised and connected

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to the building fire alarm system.

5. Where there is a fire escape not directly accessible from the corridor and the exit route is protected by electrically supervised smoke detection.

6. Corridors within residential units are exempt.

7. Corridors within private offices may have corridor only smoke detection connected to the building alarm systems.

**SECTION 19304 -- FIRE RESISTIVE CONSTRUCTION**

**19304.1 Fire separation.** Any space larger than 1,500 square feet shall be separated from building stair shafts, elevator shafts and air handling shafts by non-combustible smoke resistive separation (glass walls with wood stops are acceptable) and equipped with smoke detectors connected to the building fire alarm system.

**EXCEPTIONS:** 1. Spaces that have approved automatic sprinkler systems.

2. Building lobbies or corridors which are equipped with an approved smoke control system that includes shaft pressurization and automatic smoke removal.

3. Building lobbies or corridors of any size that do not contain combustible furnishings (other than carpet) or commercial spaces and have non-combustible interior finish throughout.

**NOTE:** To qualify for exception 3, all spaces adjacent to the building lobby must be separated and equipped with smoke detectors as outlined in this section, and all doors leading into the lobby must be self-closing or automatically closing upon activation of the building fire alarm system.

4. Office areas above the main lobby, including open space design areas.

**NOTE:** This exception does not apply to retail or wholesale stores, display rooms, restaurants, cocktail lounges and bars, banquet rooms, meeting rooms, storage rooms and spaces which, because of unusual fuel load or other conditions, pose an unusual hazard in the opinion of the Chief.

5. Smoke detectors shall not be required in spaces which are separated by one-hour construction, with openings protected by one-hour self-closing doors.

Domestic water systems may be used to supply the sprinkler system referred to in this section when approved by the Chief.

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2 **19304.2 Shaft enclosures.** All openings which connect three (3) or more floors shall be enclosed  
3 with a minimum of one-hour fire resistive construction.

4 **EXCEPTION:** Openings complying with Sections 304.6 or 402 of the Building Code.  
5

6 **SECTION 19305 -- HEATING, VENTILATION AND AIR CONDITIONING SYSTEM**  
7 **(HVAC) SHUTDOWN**

8 Air moving systems that serve more than the floor on which they are located shall automatically  
9 shut down on any high-rise building fire alarm, or shall be provided with a manual shutdown switch  
10 located at the fire alarm panel in the main building lobby.

11 **EXCEPTION:** Air moving systems of:

- 12 1. Less than 2,000 CFM.  
13 2. Exhaust only systems of less than 15,000 CFM, such as toilet, range hood, kitchen, fume  
14 hood, etc.  
15 3. HVAC systems of less than 15,000 CFM with automatic shut-down on smoke detectors in  
16 the area served, which are connected to the building fire alarm system.  
17 4. Life safety pressurization systems as provided in the Building Code.  
18 5. Buildings with approved automatic smoke control pursuant to Section 1807 of the 1982  
19 edition of the Seattle Building Code.

20 **SECTION 19306 -- FIRE ALARM AND DETECTION SYSTEMS**

21 **19306.1 General.** Every high-rise building, except a residential occupancy with a system installed  
22 under Ordinance 106107 as now or hereafter amended, shall have an electrically supervised fire  
23 alarm and detection system approved by the Chief, as follows:  
24

25 A manual pull station shall be located at every floor exit door, except in office occupancies.  
26

27 The alarm system for the high-rise building shall be monitored by a central station, or other such  
28 means approved by the Chief.

The alarm systems shall be electrically supervised and have battery emergency power sufficient to  
operate for a period of 24 hours and sound the alarm for 10 minutes at the end of that period.

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2 **19306.2 Automatic smoke detection.** There shall be electrically supervised automatic smoke  
3 detection in elevator landings, public corridors, and on the corridor or floor side of each exit  
4 stairway.

5  
6 **EXCEPTION:** Where a corridor has an approved automatic sprinkler system, smoke detectors  
7 may be omitted from the corridor.

8  
9 There shall be electrically supervised automatic smoke detectors within 50 feet of building perimeter  
10 walls and at standard spacing (approximately 30 feet) to the center of the floor.

11 **EXCEPTIONS:** 1. Interior of residential units.

12 2. Floors which have an approved automatic sprinkler system.

13 3. Parking garages.

14 4. Building Mechanical Spaces.

15 5. Any space above the top occupied floor.

16  
17 **19306.3 Rooms without sprinklers.** There shall be electrically supervised automatic heat or  
18 smoke detection in rooms used for storage, shops, handicraft, janitor, trash and similar purposes  
19 where the fuel load may be significantly higher than the average floor fuel load and no automatic  
20 sprinkler system exists.

21 **EXCEPTIONS:** 1. Rooms with an approved automatic sprinkler system.

22 2. Rooms under 10 square feet opening onto exit corridors.

23 3. Rooms under 100 square feet not opening onto exit corridors.

24 4. Rooms within residential units.

25 5. Rooms where the storage is in closed metal containers.

26 6. Rooms other than those opening onto a corridor and within 30 ft. of an electrically  
27 supervised automatic smoke detector.

28 **19306.4 Audibility.** Alarm systems shall have audible devices producing a slow "whoop" sound  
audible at 15 dBA above ambient sound levels with a minimum of 60 dBA throughout residential  
occupancies, and 10 dBA above ambient sound levels with a minimum of 55 dBA throughout other  
occupancies, and shall have a microphone capable of making voice announcements simultaneously to

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all floors.

The alarm shall sound at a minimum on the floor where the fire is occurring and the floor above, and the alarm system shall be capable of sounding a general alarm throughout the high rise building. The alarm system shall be designed so that a general alarm may be activated from two separate locations.

**19306.4.1 Zones.** Fire alarm systems shall be zoned per floor.

**19306.4.2 Panels.** There shall be an annunciator panel in the main lobby of a high rise building or in such other areas approved by the Chief as an emergency control center.

**19306.5 Automatic sprinklers.** Where an automatic sprinkler system has been installed for fire protection, the water flow alarm shall be connected to the building fire alarm.

**EXCEPTION:** Where automatic smoke detectors are installed in the area and zoned, a single water flow alarm may be used.

**19306.6 Elevator shafts.** For purposes of Section 19306, wiring for fire alarm and fire detection systems may be installed in elevator shafts, provided that:

1. Such wiring shall not interfere with the safe operation of the elevator.
2. Such wiring shall be enclosed within metal conduit and all junction boxes shall be located outside the shaft.
3. All wiring work shall be done under applicable permit obtained from the Department of Construction and Land Use.

**19306.7 Elevator recall.** A fire alarm originating on a floor other than the main lobby floor shall cause all elevators to be returned to the main floor in accordance with Chapter 30 of the Seattle Building Code. Whenever new elevator controllers are installed, they shall meet provisions of the current Building and Elevator Codes. Newly installed controllers shall have the capability of selecting alternate recall floors.

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**EXCEPTION:** Freight elevators with manually operated doors.

**SECTION 19307 -- EMERGENCY POWER**

**19307.1 General.** High-rise buildings not meeting the Building Code in effect at the time of the adoption of this article shall have, as a minimum, emergency power as follows:

1. Stairway pressurization emergency power shall be provided by an on-site diesel engine generator set. Such power shall start automatically on fire alarm and the generator set shall have a two-hour fuel supply.
2. Exit signs and pathway illumination shall have emergency power by trickle charged storage batteries. Such batteries shall have a capacity to provide required illumination for 90 minutes.
3. Fire alarm emergency power shall be provided as required in Section 19306.

**SECTION 19308 -- SIGN REQUIREMENTS**

**19308.1 General.** All signs in this section shall be approved by the Chief and have graphic symbols where possible. In hotels, signs must have graphic symbols. Sign lettering shall follow Appendix I-C of the Fire Code.

A sign shall be posted on the room side of every hotel guest room indicating the relationship of that room to the exits and fire extinguishers, and giving basic information on what to do in the event of fire in the building.

**19308.2 Stairs.** Signs shall be provided on the stairway side of every stair door indicating the number of the stair, the floor that the door serves, the high-rise building re-entry points, and stair termination.

**19308.3 Elevators.** A sign shall be posted in every elevator lobby above each call switch noting that the elevators will be recalled to the building lobby on fire alarm. This sign shall warn persons not to use the elevator in the event of fire and direct them to use the stairway.

Where exit signs are not clearly visible from the elevator lobby, signs shall be installed to indicate the direction to stair and fire escape exits.

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2 **19308.4 Emergency illumination.** Emergency illumination shall be provided at the elevator lobby  
3 sign location.

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5 **19308.5 Exit identification.** "NOT AN EXIT" signs shall be installed at all doorways,  
6 passageways, or stairways which are not exits, exit accesses or exit discharges, and which may be  
7 mistaken for an exit. A sign  
8 indicating the use of the doorway, passageway, or stairway, such as "to basement," "storeroom," or  
9 "linen closet," is permitted in lieu of the "NOT AN EXIT" sign.

10  
11 **SECTION 19309 -- EMERGENCY PREPAREDNESS**

12 **19309.1 Emergency plan.** Owners of high-rise buildings shall prepare an emergency operations  
13 plan in accordance with Section 403 of the Building Code. In addition to the requirements of  
14 Section 403 of the Building Code, the emergency operations plan shall specify the duties during a  
15 fire emergency of the building management and staff, the building fire safety directors, the fire  
16 fighting unit and floor wardens as identified in Section 19309.2.

17  
18 **19309.2 Building staff training.** Owners of high-rise buildings shall designate from existing staff  
19 a building fire safety director and a building fire fighting unit who shall be responsible for the  
20 operation of the building fire protection equipment and first aid fire fighting. Owners of high-rise  
21 buildings and/or tenants employing over 100 persons shall designate a floor warden for each floor to  
22 be responsible for evacuating the people on their respective floor in emergencies. The names and  
23 work locations of the director, the fire fighting unit and the floor wardens shall be maintained on a  
24 roster contained in the building emergency operations plan.

25 **EXCEPTIONS:** 1. Residential condominiums and apartment occupancies not employing staff.  
26 2. Office and retail occupancies after normal business hours.

27 **NOTE:** In residential buildings employing staff, where there are not enough staff to appoint a  
28 floor warden for each floor, wardens shall be appointed to the fire floor, the floor above and as  
many additional floors as possible. In buildings where only one staff person is available, that  
person will be the Fire Safety Director.

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**19309.3 Fire drills.** The staff of high-rise buildings shall conduct, and the occupants thereof shall

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participate in, fire drills on a regular basis at intervals not to exceed 120 days in accordance with the building's emergency operations plan.

**EXCEPTION:** Jail inmates, hospital patients, hotel guests and occupants of apartment or residential condominium units, unless such occupant is also a member of the high-rise building staff.

Section 132. Appendix III-B of the Uniform Fire Code is hereby repealed. The Appendix of the Uniform Fire Code, 1994 Edition, is amended by adding thereto a new Appendix III-B to read as follows:

**APPENDIX III-B**  
**INSTALLATION, MAINTENANCE AND SERVICING**  
**FIRE AND LIFE SAFETY SYSTEMS AND EQUIPMENT**

**1. INTENT**

It is the intent of this section to insure that fire and life safety systems and equipment are installed, serviced and maintained by individuals, businesses and firms which are qualified to perform such work in accordance with this Code, administrative rulings and adopted standards.

**2. SCOPE**

This section shall apply to all persons, businesses or firms engaged in the business of installing, maintaining, or servicing fire and life safety systems and equipment.

**EXCEPTIONS:**

- (a) Firms or persons engaged exclusively in the business of installing or servicing fire and life safety systems or equipment on aircraft, vehicles or vessels.
- (b) Members of the Fire Department engaged in servicing fire department equipment.
- (c) Employees of Federal Government engaged in servicing equipment owned by the Federal Government.
- (d) Employees of State Government engaged in servicing and testing of equipment installed for the protection of public rights of way.
- (e) Insurance Rating Associations and building owners engaged in testing of fire and life safety equipment and systems when such testing is not required by this Code or administrative ruling.

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(f) Any person who services only their own fire extinguisher(s) for their own use, provided such extinguisher(s) are not required by any statute, code or regulation.

(g) This section shall not apply to fire protection systems installed in single family dwellings unless such systems are required by Code or Administrative Ruling.

This section shall not prohibit the maintenance and servicing of fire and life safety systems or equipment by new employees for a period not to exceed 90 days after the beginning of employment or until the next available certification test is administered, whichever occurs first. Provided, such servicing or maintenance is conducted in the presence and under the direct supervision of another employee who holds a valid certificate for the type of work being performed. A new employee may not perform work on fire and life safety systems or equipment after the completion of the 90 day period unless s/he holds a valid certificate.

This section shall not prohibit the installation, maintenance, repair and servicing of fire and life safety systems or equipment by individuals enrolled in a recognized apprenticeship program. Provided, such servicing or maintenance is conducted in the presence and under the direct supervision of another employee who holds a valid certificate for the type of work being performed. Individuals who are apprentices must provide evidence of their apprentice program enrollment and program completion date.

### 3. DEFINITIONS

For the purposes of this section the following words and terms have the meanings indicated below:

**Certificate.** A document issued by the Fire Chief to a person who has passed the prescribed examination which grants conditional permission to perform the acts described on the document.

**Engineered System.** A system of components requiring design to determine flow rates, nozzle pressures, quantities of chemicals, fluids or gases, the number or type of nozzles and their placement in a specific system.

**Fire Alarm System.** A system of electrical devices such as flow sensors, heat or smoke detectors which is designed and installed for the purpose of warning building occupants or the

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Fire Department of a fire or of causing the operation of other fire and life safety equipment. The term shall include associated electrical wiring, power supplies, supervisory and control circuits.

**Fire and Life Safety Equipment And Systems.**

Automatic sprinkler systems, engineered and pre-engineered fixed extinguishing systems, automatic fire alarm systems including smoke and heat detection systems, standpipe systems including fire pump systems, smoke control systems and alarm and supervisory systems or other appurtenances attached to any of the above listed systems. The term also includes portable fire extinguishers required by this Code. The term does not include residential smoke detectors or portable fire extinguishers which are not required by this Code.

**Fixed Fire Extinguishing System.** An engineered or pre-engineered system which is designed and affixed for the protection of a specific hazard.

**Maintenance.** Repair service, including periodic inspections and tests required to keep fire and life safety systems and equipment in an operative condition at all times, including the replacement of the system or component parts when they become undependable or inoperative. The term also means the disassembly of an extinguisher or extinguishing system and a complete check of all working parts and all parts which have a bearing on the performance of the extinguisher or system to insure integrity.

**Portable Fire Extinguisher.** Any approved device capable of being moved from place to place which contains dry chemicals, fluids or gases for the purpose of extinguishing fires and the means for application of its contents.

**Pre-Engineered System.** A packaged system of components designed to be installed according to pre-tested limitations as listed by a nationally recognized testing laboratory, or approved by the Chief.

**Service and Servicing.** Maintenance of portable fire and life safety systems or equipment in accordance with applicable standards.

**Automatic Sprinkler System.** An integrated system of piping connected to a water supply, including associated controlling valves and alarm and supervisory equipment, which will automatically initiate a discharge of water when one of its heat-actuated elements is heated to or above its thermal rating.

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**4. CERTIFICATE REQUIRED**

No person shall engage in the business of installing, servicing or maintaining fire and life safety systems and equipment unless they have obtained a certificate from the Chief or are specifically exempted from this section.

Certificates shall remain valid for a period of time not to exceed three (3) years unless suspended or revoked by the Chief.

The Chief is authorized to recognize certificates or licenses issued by the State Fire Marshal, other Fire Departments or similar authorities, provided, such certificates establish qualifications of the holder in a manner similar to this section and to the satisfaction of the Chief.

The Chief shall maintain a list of all individuals, firms and businesses which have applied for or received a certificate together with a record of the results of any examinations, hearings or investigations related thereto. Such lists and records shall be made available to the public upon request.

**5. TYPES OF CERTIFICATES**

- Type AS-1                    Installation, service and maintenance of automatic sprinkler systems in any type of building.
- Type AS-2                    Installation, service and maintenance of automatic sprinkler systems up to four (4) stories.
- Type AS-3                    Install only.
- Type CT-1                    Confidence Testing of specific fire and life safety systems or equipment in any building.
- Type CT-2                    Confidence testing of fire and life safety systems in a specific building(s).
- Type E-1                    Installation, service and maintenance of foam fire extinguishing systems in any occupancy.
- Type E-2                    Installation, service and maintenance of carbon dioxide fire extinguishing systems in any occupancy.
- Type E-3                    Installation, service and maintenance of engineered halon or replacement agent fire

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extinguishing systems in any occupancy.

Type E-4 Installation, service and maintenance of engineered dry/wet chemical fire extinguishing systems in any occupancy.

Type EG-1 Installation, service and maintenance of emergency generators in any type of building.

Type EG-2 Testing of emergency generators in a specific building.

Type FA-1 Test and service of automatic fire alarm systems in any type of building.

Type FA-2 Test and service of automatic fire alarm systems in any type of building except high-rise, hospitals and public assemblies over 300 persons.

Type FA-3 Test and service of automatic fire alarm systems in buildings up to four (4) stories; except hospitals and public assemblies over 300.

Type FP-1 Installation, service and maintenance of fire pumps and controllers in any building.

Type FP-2 Testing of fire pumps and controllers in a specific building.

Type FEX-1 All activities relating to portable fire extinguishers including those listed in Types FEX-2, FEX-3, and FEX-4.

Type FEX-2 Service, charge, recharge, inspect, or install portable fire extinguishers.

Type FEX-3 Hydrostatic testing of fire extinguisher cylinders.

Type FEX-4 Annual external examination of CO<sub>2</sub> or stored pressure fire extinguishers equipped with pressure indicators or gauges.

Type SC-1 Installation, service and maintenance of smoke control systems.

Type SC-2 Test and service of shaft pressurization systems.

Type STP-1 Install, service and maintain Class I, II and III standpipes in any occupancy.

Type STP-2 Install, service and maintain Class II standpipes in any occupancy (includes marine standpipes).

#### 6. QUALIFICATIONS AND EXAMINATIONS FOR CERTIFICATES

Applicants for a certificate shall provide evidence that they have completed a course of instruction and training in the applicable type of system or equipment. Such evidence may include professional degrees, State licenses, training certificates from manufacturers, completion of apprenticeship programs or similar materials acceptable to the Chief.

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**EXCEPTION:** Applicants for Type CT-2 and FEX-4 Certificates.

Applicants shall submit evidence that they possess necessary licenses, tools, or test equipment required for the type of work to be performed.

All applicants for a certificate shall pass a written examination given by the Chief. Such examinations shall be designed to test the applicant's qualifications to hold the type of certificate for which application has been made. Such examinations may be supplemented by practical tests or demonstrations necessary to determine the applicant's knowledge or ability.

A list of information resources recommended to pass the examinations for certificates shall be provided by the Chief.

**7. SERVICE LABELS**

A service label conforming to this section shall be securely attached to each fire and life safety system or item of fire and life safety equipment at the time of installation, service or maintenance. The label shall be of the self-adhesive type or the wire-hanging type. Self-adhesive labels shall be manufactured in accordance with U. L. Standard 969, Marking and Labeling systems.

The label shall be placed as follows:

- Emergency Generators . . . . . On the control panel.
- Engineered Systems . . . . . On the agent supply tank or pull device.
- Fire Alarm Systems . . . . . On the Fire Alarm Panel or at power supply, if no panel.
- Fire Escapes . . . . . On or adjacent to the lowest landing.
- Fire Pumps . . . . . On the control panel.
- Pre-Engineered Systems . . . . . On the agent supply tank or pull device.
- Portable Fire Extinguishers . . . . . On the control valve of the extinguisher, or cylinder.
- Smoke Control Systems . . . . . On the manual control panel, or lowest fan if no panel is installed.
- Sprinkler Systems . . . . . On or adjacent to the sprinkler control valve. CS 19 Z
- Standpipe Systems . . . . . On or adjacent to the lowest outlet.

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The following format shall be used for all service labels:

DO NOT REMOVE By Order of the Fire Chief	Year	Month	Next Due Date
	Firm		
	Address		
	Phone		
	Serviced by:		
Certificate NO.			
Description of work:			

The following information shall be printed on service labels:

1. The words "DO NOT REMOVE BY ORDER OF THE FIRE CHIEF."
2. Name of the business or firm.
3. Address of the business or firm.
4. Telephone number of the business or firm.
5. Date that work was performed.
6. Signature of person performing work.
7. Description of work performed.

#### 8. CERTIFICATE NUMBER OF PERSON PERFORMING WORK

When performing installation, service or maintenance, the date of work, name of firm, and the signature and certificate number of the person performing the work shall be placed on the service label.

No person shall remove a service label from, or place a service label on, a fire and life safety system or item of fire and life safety equipment except when installation, service or maintenance is performed. A new label shall be attached whenever service or maintenance is performed.

No person shall deface, modify or alter any service label attached to or required to be attached to any fire and life safety system or item of fire and life safety equipment.

#### 9. DENIAL, REVOCATION AND SUSPENSION OF CERTIFICATES

The Chief may refuse to issue, renew, or may suspend or revoke any certificate if he determines

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that an applicant for or holder of a certificate has:

1. Obtained or attempted to obtain a certificate by fraud or misrepresentation.
2. Has installed, maintained, or serviced a fire and life safety system or item of fire and life safety equipment in violation of this Code, administrative ruling, or adopted standard.
3. Refused to allow inspection by the Chief or his authorized representative.
4. The applicant for a certificate does not possess the qualifications to conduct the operation for which application is made as demonstrated by written and/or practical examination.
5. The applicant for a certificate does not possess the proper facilities to conduct operations for which application is made.

Individuals whose certificates have been denied, suspended or revoked shall be so notified in writing and may request a hearing by the Chief in accordance with Section 105.7 of the Seattle Fire Code. After such hearing, the Chief shall consider the facts and circumstances surrounding the case and shall render his decision in writing. The decision of the Chief shall be final with regard to whether or not the certificate shall be denied, suspended or revoked.

In the event the State of Washington adopts legislation or rules which in the opinion of the Chief meets the intent and scope of this appendix, such legislation will supersede Appendix III-B of the Seattle Fire Code, Ordinance No. 118019. Such State legislation or rule must contain specific examination procedures and certificates for all persons who install, repair, maintain and service fire and life safety systems and equipment.

Section 133. Appendix IV A of the Uniform Fire Code, 1994 Edition is amended to read as follows:

**Division IV**  
**SPECIAL COMBUSTION HAZARDS**  
**APPENDIX IV A**  
**INTERIOR FLOOR FINISH**  
**(See U.F.C. Section 1101.1)**

**SECTION 1 -- SCOPE**

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Exposed floor surfaces of buildings, including coverings which are applied over a previously finished floor, shall be in accordance with Appendix IV-A.

**EXCEPTION:** Interior floor finish materials of a traditional type, such as wood, vinyl, linoleum, terrazzo and other resilient floor-covering materials.

## SECTION 2 -- GENERAL

Interior floor finish materials determined by the Chief to represent an unusual hazard shall meet the classification prescribed for the occupancy groups listed in Table A-IV-A-1 when tested in accordance with Section 3.

**EXCEPTION:** When an approved automatic sprinkler system with fast response sprinklers is installed, Class 2 materials are allowed to be used in areas where Class 1 materials are required and the materials need not be classified in areas where Class 2 materials are required.

## SECTION 3--TESTING AND CLASSIFICATION OF MATERIALS

**3.1 Testing.** Critical radiant flux values of interior floor finishes shall be established by tests conducted by an approved testing agency in accordance with procedures specified within nationally recognized standards. NFPA Standard 253 is an example of such standards.

### 3.2 Classification.

**3.2.1 General.** Interior floor finish materials shall be classified in accordance with the following:

1. Class 1 interior floor finish. Materials having a minimum critical radiant flux of 0.45 watt per square centimeter.
2. Class 2 interior floor finish. Materials having a minimum critical radiant flux of 0.22 watt per square centimeter.

**3.3 Test Report Availability.** A copy of the test report identifying and representing the style to be installed shall be provided to the Chief upon request. The test report shall identify the interior floor finish by manufacturer or supplier and the style name. The test report shall be representative of the current construction of the material to be installed.

**3.4 Identification.** The interior floor finish material shall be identified by a hang tag or other suitable method as to manufacturer or supplier, and style, and shall indicate the classification of the material based upon the limits specified within Section 2.

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TABLE A-IV-A-1--INTERIOR FLOOR FINISH REQUIREMENTS

OCCUPANCY	CLASS	
	Required Exits and Passageways <sup>1</sup>	Corridors Providing Exit Access <sup>4</sup>
Group A <sup>3</sup>	2	2
Group B	2	2
Group E <sup>3</sup>	2	2
Group F	2	2
Group H <sup>1-6</sup>	1	1
Group H <sup>7</sup>	2	2
Group I <sup>2-3</sup>	1	1
Group M	2	2
Group R, Division 1	2	2
Group S	2	2

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<sup>1</sup> Combustible floor finish (~~shall not be used~~) is not permitted for ~~((on))~~ stairs in Types I and II construction except for stairs of combustible construction which are permitted by either Section 602.4 or 603.4 (Building Code), where finishes are not restricted (~~or other types of construction for buildings exceeding three stories in height~~).

<sup>2</sup> Combustible floor finish shall not be used in rooms occupied by inmates or patients whose personal liberties are restrained.

<sup>3</sup> Carpeting in rooms located in Groups A, E, and I-2 shall be Class 2. Carpeting in rooms located in Group I-1, 1 nursing homes and hospitals shall be Class 1.

<sup>4</sup> Incidental carpeting less than 100 sq. ft. on a non-combustible surface may be Class 3.

Section 134. Appendix I-A of the Uniform Fire Code is hereby repealed.

Section 135. Appendix I-B of the Uniform Fire Code is hereby repealed.

Section 136. Appendix II-G of the Uniform Fire Code is hereby repealed.

Section 137. Appendix II-H of the Uniform Fire Code is hereby repealed.

Section 138. Appendix II-I of the Uniform Fire Code is hereby repealed.

Section 139. Appendix III-D of the Uniform Fire Code is hereby repealed.

Section 140. Appendix VI-C of the Uniform Fire Code is hereby repealed.

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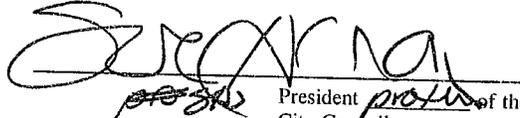
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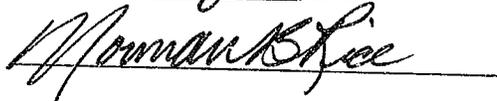
Section 141. Appendix VI-D of the Uniform Fire Code is amended by adding thereto the reference tables from the Seattle Building Code.

Section 142. This ordinance shall take effect and be in force thirty (30) days from and after its approval by the Mayor, but if not approved and returned by the Mayor within ten (10) days after presentation, it shall take effect as provided by Municipal Code Section 1.04.020.

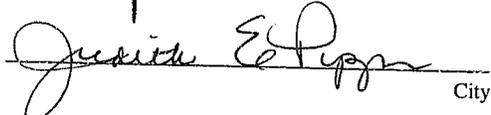
Passed by the City Council the 20 day of February, 1996, and signed by me in open session in authentication of its passage this 20 day of February, 1996.

  
President pro tem of the  
City Council

Approved by me this 22 day of February, 1996.

  
Mayor

Filed by me this 22 day of February, 1996.

  
City Clerk

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**Your  
Seattle  
Fire Department**

Claude Harris, Chief  
Norman B. Rice, Mayor



**LETTER OF TRANSMITTAL**

February 1, 1996

The Honorable Jan Drago  
President, Seattle City Council

Via The Honorable Mayor Norman B. Rice

Attention: Tom Tierney, Director  
Office of Management and Planning

Subject: **AN ORDINANCE** relating to and regulating fire and explosion hazards;  
adopting by reference the Uniform Fire Code, 1994 Edition, 1994 Uniform  
Fire Code Standards and amendments thereto and

**AN ORDINANCE** relating to and regulating fire and explosion hazards;  
and amending the Uniform Fire Code, 1994 Edition, as adopted by  
reference by Ordinance \_\_\_\_\_.

Dear President Drago:

Enclosed are drafts of ordinances which adopt by reference the Uniform Fire Code, 1994 Edition with amendments and repeal Seattle Fire Code Ordinances 116334 and 116335.

Changes to Fire Code technical provisions include:

1. The ability of the Fire Chief to determine which article of the Fire Code to apply to a situation when more than one code provision would be applicable. In certain circumstances, the more specific article may not provide adequate fire and life safety.

The design and construction of semiconductor fabrication facilities exemplifies the necessity to apply Article 80, Hazardous Materials provisions for gas scrubber installation. Article 51, the specific article for semiconductor fabrication facilities fails to mention the gas scrubber requirement because that particular article has not been updated at the national level for more than three years.

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The rationale for amending subsection 101.6 incorporates the concept that the design/development community will save unnecessary expenses by contacting the Fire Marshal's Office for code interpretation service prior to committing resources under a code provision that may not be applicable.

2. The addition of "code interpretations" and "points of interest" to make the Fire Code more "user friendly" by informing the reader about Seattle Fire Department policies and how the code is applied within the body of the Fire Code. This will save the user time in looking for answers which may lie in administrative rulings, other enforcement agencies or nationally recognized standards.
3. Permit exemptions for those who use portable (six gallon size) gasoline containers or 12 gallon or less aggregate capacity. The Uniform Fire Code requires a permit at 10 gallons aggregate capacity or two, 5 gallon portable tanks. Seattle's amendment reflects the current marketplace and portable flammable liquid container design. Those who wish to store or use more than 12 gallons of flammable liquids would still need a fire permit.
4. At the request of the City of Seattle Risk Manager, the minimum liability insurance minimum coverage amount was raised from \$1 million to \$2 million.
5. Flammable and combustible solvent distillation units are addressed via amendment to the Uniform Fire Code. The installation of these units is being pushed by environmental regulatory agencies to reduce the volume of hazardous waste. Unfortunately, some serious accidents which have caused significant property damage have occurred from the use of this equipment. To date, no industry or product standard has been developed to ensure the safety of this equipment. The solvent distillation process poses a threat to fire and life safety when flammable and combustible materials are heated beyond their flashpoint.
6. Audibility requirements for fire alarms were increased for sleeping areas and audibility measurement protocols are standardized in the proposed legislation.
7. Amusement buildings such as haunted houses shall have an automatic fire extinguishing system installed, unless safeguards already in place provide adequate fire and life safety.
8. Extensive meetings with the regulated community and affected industry groups resulted in a refinement of welding and cutting regulations and associated permit requirements.
9. Seattle will deviate from the Uniform Fire Code by prohibiting the dispensing of Class I, flammable liquids from above-ground tanks for motor vehicle fueling.

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1994 Fire Code  
Letter of Transmittal  
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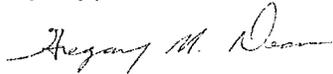
Other changes match Seattle's Fire Code to the Seattle Building Code ordinance which went into effect in December, 1995.

This legislation was reviewed in depth by the newly reconstituted Fire Code Advisory Board. The Fire Code Advisory Board legislation was passed in July, 1995 via Ordinance 117717. Board members met on a twice weekly basis from November 7, 1995 through January 16, 1996.

We recommend passage of the proposed legislation to facilitate effective Fire Code enforcement.

Any questions concerning the enclosed proposed ordinances should be directed to Chief Jerald A. Birt, Fire Marshal at 386-1452.

Very truly yours,



Gregory M. Dean, Acting Fire Chief  
Seattle Fire Department

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Enclosures (2)

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AN ORDINANCE relating to and regulating fire and explosion hazards; and amending the Uniform Fire Code, 1994 Edition, as adopted by reference by Ordinance \_\_\_\_\_

BE IT ORDAINED BY THE CITY OF SEATTLE AS FOLLOWS:

Section 1. This ordinance shall be known and cited as the Seattle Fire Code Supplement. It shall be codified, printed and bound with the Uniform Fire Code, 1994 Edition, as adopted by reference by Ordinance \_\_\_\_\_.

Section 2. Subsection 101.2 of the Uniform Fire Code is amended to read as follows:

**101.2. Scope.** This code prescribes regulations consistent with nationally recognized good practice for the safeguarding to a reasonable degree of life and property from the hazards of fire and explosion arising from the storage, handling and use of hazardous substances, materials and devices, and from conditions hazardous to life or property in the use or occupancy of buildings or premises.

The provisions of this code shall supplement any and all laws relating to firesafety and shall apply to all persons without restriction, unless specifically exempted.

Text entitled "Point of Information" or "Code Interpretation" in the Seattle Fire Code shall be guidance only and shall not have the force of law.

Section 3. Subsection 101.4 of the Uniform Fire Code is amended to read as follows:

**101.4 ((Supplemental)) Rules and Regulations.** The Chief ((-with the approval of the administrator,)) is authorized to make and enforce such rules and regulations for the prevention and control of fires and fire hazards as may be necessary from time to time to carry out the intent of this Code. ((A minimum of one certified copy or the number required by governing law of such rules and regulations shall be filed with the clerk of the jurisdiction and shall be in effect immediately thereafter and additional copies shall be kept in the office of the fire

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1 ~~department for distribution to the public.)~~ Three copies of such rules and regulations shall be  
2 filed with the City Clerk.

3 Administrative rules of general applicability which require public compliance and product  
4 approvals shall be published as provided for in Seattle Municipal Code Chapter 3.02. Sections  
5 103.1.2, 103.1.3 and 103.1.4 of the Seattle Fire Code shall apply to such rules.

6 The Chief may publish: technical, advisory, and informational material not requiring general  
7 public compliance, regulations applicable to an individual permit issued under this Code and  
8 regulations applicable to members of the Fire Department in such form as she/he may  
9 establish.

10  
11 Section 4. Subsection 101.5 of the Uniform Fire Code is hereby repealed. Section 101 of the  
12 Uniform Fire Code is amended by adding thereto a new subsection 101.5 to read as follows:

13  
14 **101.5 Liability For Damages.** This ordinance is enacted as an exercise of the police power of  
15 the City of Seattle to protect and preserve the public peace, health, safety and welfare, and its  
16 provisions shall be liberally construed for the accomplishment of these purposes.

17 It is expressly the purpose of this ordinance to provide for and promote the health, safety and  
18 welfare of the general public, and not to create or otherwise establish or designate any  
19 particular class or group of persons who will or should be especially protected or benefitted by  
20 the terms of this ordinance.

21 It is the specific intent of this ordinance to place the obligation of complying with its  
22 requirements upon the owner or occupier of premises within its scope, and no provision nor  
23 term used in this ordinance is intended to impose any duty whatsoever upon the City or any of  
24 its officers or employees, for whom the implementation or enforcement of this ordinance shall  
25 be discretionary and not mandatory.

26  
27 Nothing contained in this ordinance is intended to be nor shall be construed to create or form  
28 the basis for any liability on the part of the City, or its officers, employees or agents, for any

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1 injury or damage resulting from the failure of the owner or occupier of premises to comply with  
2 the provisions of this ordinance, or by reason or in consequence of any act or omission in  
3 connection with the implementation or enforcement of this ordinance on the part of the City by  
4 its officers, employees or agents.

5 Any suit brought against the City, or its officers, employees or agents, because of such act or  
6 omission performed in the enforcement of any provision of such codes or other pertinent laws  
7 or ordinances implemented through the enforcement of this Code or enforced by the code  
8 enforcement agency shall be defended by this jurisdiction until final termination of such  
9 proceedings, and any judgment resulting therefrom shall be assumed by this jurisdiction.

10  
11 Limited public funds are available for the implementation and enforcement of the codes  
12 adopted by this ordinance. Permit application reviews and inspections conducted pursuant to  
13 this ordinance are spot checks designed to foster and encourage compliance and are not  
14 guarantees or assurances that permits or work undertaken pursuant to permit issuance complies  
15 with all applicable codes.

16  
17 Section 5. Subsection 101.6 of the Uniform Fire Code is amended to read as follows:

18 **101.6 Conflicting Provisions.** Where there is a conflict between a general requirement and a  
19 specific requirement, the specific requirement shall be ~~((applicable.)) applied, unless in the~~  
20 opinion of the Chief, the general requirement provides adequate fire and life safety.

21  
22 Section 6. Subsection 102.1 of the Uniform Fire Code is hereby repealed. Section 102 of the  
23 Uniform Fire Code is amended by adding thereto a new subsection 102.1 to read as follows:

24  
25 **102.1 Existing Conditions.** The provisions of this Code shall apply to existing conditions as well  
26 as to conditions arising after the adoption thereof, except that conditions legally in existence at  
27 the adoption of this Code and not in strict compliance therewith shall be permitted to continue  
28 only if, in the opinion of the Chief, they do not constitute a distinct hazard to life or property.

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1 Section 7. Subsection 103.1.4 of the Uniform Fire Code is hereby repealed. Section 103 of the  
2 Uniform Fire Code is amended by adding thereto a new subsection 103.1.4 to read as follows:

3 **103.1.4 Appeals** Appeals from decisions or actions pertaining to the application and  
4 interpretation of this Code shall be addressed to the Fire Chief. If not resolved with the Chief,  
5 the appellant may submit a written request to the Fire Chief for a review by the Fire Code  
6 Appeals Board in accordance with all applicable by-laws, rules, regulations and ordinances.  
7 The results of this appeal will be advisory only, in accordance with City of Seattle Ordinance  
8 117717.

9  
10 Section 8. Subsection 103.1.5 of the Uniform Fire Code is hereby repealed.

11  
12 Section 9. Subsection 103.2.1.1, item 7 of the Uniform Fire Code is amended to read as  
13 follows:

14  
15 **103.2.1.1 General.** The Chief is authorized to administer and enforce this code. Under the  
16 chief's direction, the fire department is authorized to enforce all ordinances of the jurisdiction  
17 pertaining to:  
18 1. The prevention of fires,  
19 2. The suppression or extinguishment of dangerous or hazardous fires,  
20 3. The storage, use and handling of hazardous materials,  
21 4. The installation and maintenance of automatic, manual and other private fire alarm systems  
22 and fire-extinguishing equipment,  
23 5. The maintenance and regulation of fire escapes,  
24 6. The maintenance of fire protection and the elimination of fire hazards on land and in  
25 buildings, structures and other property, including those under construction,  
26 7. ~~((The maintenance of exits, and))~~ The means and adequacy of each exit in the event of fire,  
27 from factories, schools, hotels, lodging houses, asylums, hospitals, churches, halls, theaters,  
28 amphitheaters and all other places in which people work, live or congregate from time to time

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for any purpose.

1 8. The investigation of the cause, origin and circumstances of fire and unauthorized releases of  
2 hazardous materials.

3 For authority related to control and investigation of emergency scenes, see Section 104.

4  
5 Section 10. Section 103.3 of the Uniform Fire Code is amended by adding thereto a new  
6 subsection 103.3.5 to read as follows:

7  
8 **103.3.5 Special Inspections.** The Chief is authorized to appoint qualified persons or agencies  
9 having special technical skills as special inspectors or plan reviewers and accept their inspection,  
10 plan review and evaluation of specialized fire protection equipment.

11  
12 The Chief is authorized to accept inspections performed by other jurisdictions and honor  
13 permits and certificates issued by other jurisdictions for activities regulated by this Code, upon  
14 presentation to the Chief of satisfactory evidence that such inspections, permits and certificates  
15 are substantially in accord with the fire safety requirements of this Code.

16  
17 Section 11. Subsection 103.4.4 of the Uniform Fire Code is hereby repealed. Section 103 of  
18 the Uniform Fire Code is amended by adding thereto a new subsection 103.4.4 to read as  
19 follows:

20 **103.4.4 Citations.** ~~((Persons))~~ Any person operating or maintaining any occupancy, premises or  
21 vehicle subject to this Code who ~~((allow-a))~~ shall permit any fire hazard to exist on premises  
22 under his or her control or who shall fail to take immediate action to abate a fire hazard ~~((on~~  
23 ~~such occupancy, premises or vehicle))~~ when ordered or notified to do so by the Chief or his/her  
24 duly authorized representative, shall be guilty of a ~~((misdemeanor))~~ crime as provided for in  
25 Chapter 12A of the Seattle Municipal Code.

26  
27 Section 12. Subsection 103.4.5 of the Uniform Fire Code is hereby repealed. Section 103 of  
28 the Uniform Fire Code is amended by adding thereto a new subsection 103.4.5 to read as

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follows:

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**103.4.5 Unsafe buildings.** All buildings or structures which are structurally unsafe or not provided with adequate egress, or which constitute a fire hazard, or are otherwise dangerous to human life, or which in relation to existing use constitute a hazard to safety or health, or public welfare, by reason of inadequate maintenance, dilapidation, obsolescence, fire hazard, disaster damage or abandonment, as specified in this Code or other effective ordinances are, for the purpose of this section, unsafe buildings. All such unsafe buildings are hereby declared to be public nuisances and shall be brought into compliance as required by Ordinance, by the owner, upon notice from the Chief.

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Whenever the Chief determines that a building is unsafe the Chief shall:

11

1. Order such corrections as are necessary.

12

2. Provide an information copy of such order to the Building Official.

13

When the Chief determines that an unsafe building should be posted to prohibit entry or continued use, he/she shall post a notice on the principal entrance(s) of such building, describing the unsafe condition(s) and the specific Fire Code section(s) deemed to be in violation. The owner of a building so posted shall prohibit continued use of the premises. Only the Chief shall remove a notice posted under this Code.

14

15

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19

The Chief shall also order the termination or restoration of utilities and/or the temporary closure of streets when such action is necessary to reduce the life hazard or fire fighting hazard of an unsafe building.

20

21

22

The Chief may seek an order of the court requiring vacation of an unsafe building until corrections are made.

23

24

25

The Chief shall seize and remove hazardous materials or take such other action as may be necessary to correct an imminent hazard, when the owner fails or is unable to effect immediate correction.

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1 Whenever in the opinion of the Chief, it is essential for public safety, the Chief may order the  
2 owner or responsible party to establish additional safeguards. Such safeguards may include use  
3 of standby fire fighters, standby paramedics, special inspectors, security personnel, additional  
4 fire protection equipment and similar measures.

5 Such individuals shall be on duty at such times as the Chief may require and shall comply with  
6 the orders of the Chief. Such individuals shall inspect the required fire appliances provided to  
7 see that they are in proper place and in good working order, and shall keep diligent watch for  
8 fires during the time such place is occupied and take prompt measures for extinguishment of  
9 fires that may occur. Such individuals shall not be required or permitted, while on duty, to  
10 perform any other duties than those herein specified.

11  
12 The Chief may order Fire Department personnel to duty if the owner or responsible party  
13 refuses or is unable to establish additional safeguards when directed by the Chief. The Chief  
14 shall issue an invoice to the owner to recover actual costs for labor. Labor costs shall be based  
15 on the rates of pay as determined by the collective bargaining agreement adopted by ordinance.

16  
17 Section 13. Section 103 of the Uniform Fire Code is amended by adding thereto new  
18 subsections 103.4.7 and 103.4.8 respectively to read as follows:

19 **103.4.7 Prohibition.** The Chief may prohibit the use, display, or sale of any device, material,  
20 thing or object which is designed to be used in such a manner as to violate any provisions of  
21 this Code, or where the use or sale of such constitutes a distinct hazard to life or property.

22  
23 Any materials shown by test to have a life hazard greater than that indicated and controlled by  
24 Building Code interior finish regulations or Fire Code decorative material regulations shall be  
25 prohibited or shall be installed or used with such additional fire safety features as are necessary  
26 to substantially reduce the life hazard.

27  
28 **103.4.8 Failure to correct violations.** Failure to correct violations of fire prevention laws and

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1 ordinances within the time established on the order or notice will result in an inspection fee of  
2 one hundred dollars (\$100.00). Such fee will be imposed for each inspection performed by the  
3 Fire Marshal or his designee.

4 **Exceptions:** 1. The Chief shall waive the inspection fee if the original order or notice is  
5 determined to be invalid.

6 2. The Chief may waive the inspection fee when mitigating circumstances beyond the  
7 responsible party's control exist such as conflicting enforcement by other jurisdictions,  
8 conditions caused by third parties or where alternate materials, methods or designs are  
9 under review to meet the intent of the Seattle Fire Code.

10  
11 Section 14. Subsection 104.1.2 of the Uniform Fire Code is hereby repealed. Section 104 of  
12 the Uniform Fire Code is amended by adding thereto a new subsection 104.1.2 to read as  
13 follows:

14  
15 **104.1.2 Interference with the Fire Department.** Any person who obstructs the operation of the  
16 Fire Department in connection with extinguishing any fire, or in the performance of other  
17 duties required by this Code, is guilty of a crime under provisions of Chapter 12A of the Seattle  
18 Municipal Code.

19  
20 Section 15. Subsection 105.7 of the Uniform Fire Code is hereby repealed. Section 105 of the  
21 Uniform Fire Code is amended by adding thereto new subsections 105.7, 105.7.1 and 105.7.2  
22 respectively to read as follows:

23 **105.7 Revocation of Permits and Certificates.**

24 **105.7.1 Non-emergency Revocations.** The Fire Chief may revoke, suspend or refuse to renew  
25 any permit or certificate upon evidence submitted to him/her that any permit condition has  
26 changed so that continued operation would create an unwarranted safety risk. Such conditions  
27 include, but are not limited to:

28 1. Use by a person other than the person to whom the permit or certificate was issued.

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2. Change of location from the location specified on the permit.
3. Violation of any of the conditions and/or limitations specified in the permit or certificate.
4. Permit holder's failure, refusal or neglect to comply with any order or notice duly served upon him/her under the provisions of this Code within the time provided in such order or notice.
5. Any false statement or misrepresentation of a material fact in the application or plan specifications on which the granting of the permit or certificate was based.

The permit or certificate holder shall be notified in writing no later than five (5) business days prior to the revocation, suspension or refusal to renew such permit or certificate. The permit or certificate holder may request in writing a hearing before the Chief for reconsideration of the decision to revoke, suspend or deny renewal. The request shall be filed with the Chief by five o'clock (5:00 p.m.) of the second business day following service of the notice. The hearing shall be held no later than one (1) business day from receipt of a written request. The Chief shall issue a final decision, in writing, sustaining, modifying or withdrawing the initial decision to revoke, suspend or refuse to renew the certificate or registration no later than the next business day following such hearing.

**105.7.2 Emergency Revocations.** The Fire Chief may revoke, suspend or refuse to renew a permit or certificate in emergency situations when an imminent fire hazard exists, without providing prior notice to the permit or certificate holder. An emergency situation will be declared where the Chief finds unforeseen circumstances that call for immediate action and the failure to act may cause imminent injury, illness or harm to humans, domestic animals, livestock, wildlife, or may be dangerous or injurious to the immediate or neighboring property, lands, or premises.

Where such emergency is found to exist, all certificates and permits shall be surrendered to the Chief or his/her authorized representative upon demand. Those activities sanctioned by certificates and permits will be suspended until the Chief finds the emergency no longer exists.

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1 Persons surrendering said certificates and/or permits may appeal the Chief's action by filing a  
2 notice of appeal to the Chief by five o'clock (5:00 p.m.) of the next business day following such  
3 revocation. The hearing with the Chief shall be no later than one (1) working day from the  
4 receipt of such written appeal.

5 The Chief shall issue a final decision in writing, sustaining, modifying or withdrawing the initial  
6 decision to revoke the certificate or permit no later than the next business day following such  
7 hearing. Further appeals shall be in accordance with Section 103.1.4 of this Code.

8  
9 Section 16. The first paragraph in subsection 105.8 of the Uniform Fire Code is amended to  
10 read as follows:

11  
12 **105.8 Permits Required.** ~~((A permit shall be obtained from the bureau of fire prevention prior~~  
13 ~~to engaging in the following activities, operations, practices or functions:)) It shall be unlawful~~  
14 for any person, firm or corporation to use a building or premises or engage in any activities for  
15 which a permit is required by this Code, without first having obtained such permit. Permits are  
16 issued by the Fire Marshal's Office. The Chief may condition any permit, increasing or  
17 decreasing the scope of activity, and/or specifying fire safety provisions in addition to those  
18 established by this Code, where he or she deems such conditions are necessary to provide  
19 reasonable public safety.

20 A permit shall be obtained from the Fire Department to engage in the following activities,  
21 operations, practices or functions:

22  
23 Section 17. Subsection 105.8, item c.6 of the Uniform Fire Code is amended to read as follows:

24 \* \* \* \*

25 **c.6. Combustible material storage.** To store more than 2,500 cubic feet (70.8 m<sup>3</sup>) gross volume  
26 of combustible empty packing cases, boxes, barrels or similar containers, or rubber or cork, or  
27 other similarly combustible material. See Article 11.

28

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**CODE INTERPRETATION:**

The term "other similarly combustible material" shall include materials classified as Class IV or as high-hazard commodities under Section 8101.4 of this Code.

Section 18. Subsection 105.8, item f.3 of the Uniform Fire Code is hereby repealed. Section 105 of the Uniform Fire Code is amended by adding thereto a new subsection 105.8, item f.3 to read as follows:

\* \* \* \*

f.3. **Flammable or combustible liquids and tanks.** See Article 79.

1. To store, handle or use Class I liquids in excess of 5 gallons in a building or in excess of 10 gallons outside of any building (including heated liquids of higher flash point, such as asphalt).
2. To store, handle or use Class II and III-A liquids in excess of 25 gallons inside a building or in excess of 60 gallons outside of any building, except for fuel oil used in connection with oil-burning equipment.
3. To store, handle or use Class III-B liquids in excess of 1,000 gallons.
4. To install, alter or operate equipment in connection with the storage, handling, use or sale of flammable or combustible liquids regulated under Article 79.
5. To install, alter, remove, abandon, place temporarily out of service or otherwise dispose of any flammable or combustible liquid tank. See Article 79.
6. To change the type of contents stored in any flammable or combustible liquid tank to a material other than that for which the tank was designed and constructed.
7. Operation of an automotive self-service station or marine service station. See Article 52.
8. To operate mobile or portable refueling equipment, including marine craft.
9. To remove Class I or Class II liquids from an underground storage tank used for fueling motor vehicles by any means other than the approved, stationary on-site pumps normally used for dispensing purposes.
10. To operate tank vehicles in which flammable and combustible liquids are transported.

**EXCEPTIONS:** 1. The storage or use of liquids in the fuel tanks of motor vehicles, aircraft,

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1 motorboats, mobile power plants, mobile heating plants or portable motor boat tanks of six (6)  
2 gallons or less individual capacity and twelve (12) gallons or less aggregate capacity.

3 2. Dispensing flammable or combustible liquids from underground tanks for motor vehicle  
4 fueling at full-service stations open to the public or at private stations using approved  
5 dispensing equipment.

6 3. Transportation of liquids in factory sealed containers or in tanks excepted in Exception #1.

7 4. The incidental storage or use of paints, oils, varnishes, or similar mixtures when stored for  
8 maintenance, painting or similar purposes in quantities permitted by this Code for a period of  
9 not more than 30 days.

\* \* \* \*

10 Section 19. Section 105 of the Uniform Fire Code is amended by adding thereto a new  
11 subsection 105.8, item h.4 to read as follows:

\* \* \* \*

12 h.4. **Helicopter lifts.** To move heavy equipment via helicopter over populated areas.

\* \* \* \*

13 Section 20. Section 105 of the Uniform Fire Code is amended by adding thereto exceptions to  
14 Subsection 105.8, Item m.3 to read as follows:

\* \* \* \*

15 m.3. **Motor vehicle fuel-dispensing stations.** To dispense flammable or combustible liquids,  
16 liquefied petroleum gases or compressed natural gas at motor vehicle fuel-dispensing stations.  
17 See Article 52.

18 **EXCEPTIONS:** 1. Dispensing flammable or combustible liquids from underground tanks for  
19 motor vehicle fueling at exclusively full-service stations open to the public.

20 2. At private stations using approved dispensing equipment from underground tanks.

\* \* \* \*

21 Section 21. Subsection 105.8, item p.2 of the Uniform Fire Code is amended to read as  
22 follows:  
23

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p.2. **Places of assembly.** To operate a place of assembly with an occupant load of 100 or more as defined in Article 2. See Article 25.

2

3

\* \* \* \*

4

Section 22. Subsection 105.8, item r.2 of the Uniform Fire Code is amended by adding thereto exceptions to read as follows:

5

6

\* \* \* \*

7

r.2. **Refrigeration equipment.** To install or operate a mechanical refrigeration unit or system ~~((regulated by Article 63)).~~ See Article 63.

8

9

**EXCEPTIONS:**

10

1. Existing systems under permit by the Department of Construction and Land Use.

11

2. All units and systems exempted by Section 6301.

12

\* \* \* \*

13

Section 23. Subsection 105.8, item w.1 of the Uniform Fire Code is hereby repealed. Section 105 of the Uniform Fire Code is amended by adding thereto a new subsection 105.8, item w.1 to read as follows:

14

15

16

\* \* \* \*

17

w.1. **Welding and cutting operations.** To conduct welding or cutting operations. See Article 49, Section 4901.3.

18

19

\* \* \* \*

20

Section 24. Table 105-B -- Permit Amounts For Cryogens of the Uniform Fire Code is amended to read as follows:

21

22

**TABLE 105-B--PERMIT AMOUNTS FOR CRYOGENS<sup>1</sup>**

23

TYPE OF CRYOGEN	INSIDE BUILDING (gallons)	OUTSIDE BUILDING (gallons)
	x 3.785 for L	
Corrosive	Over 1	Over 1
Flammable	Over 1	60
Highly toxic	Over 1	Over 1
Nonflammable	60	500
Oxidizer (includes oxygen)	((50))10 (use), 45 (storage)	50

24

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<sup>1</sup>See Article 75

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1 Section 25. Article 1 of the Uniform Fire Code is amended by adding thereto new sections 106,  
2 107 and 108 respectively to read as follows:

3 **SECTION 106 -- CERTIFICATES**

4 **106.1 Definition.** A certificate is a statement that a person has demonstrated knowledge and  
5 competence in the performance of an activity regulated by this Code. All applications for a  
6 certificate required by this Code shall be made to the Chief in such form and detail as he may  
7 prescribe. Certificate fees are established in the Seattle Municipal Code to recover the City's  
8 cost in testing and issuing a certificate. Any person performing work for which a certificate is  
9 required under this Code shall have such certificate in their possession at the work site.

10 **SECTION 107 -- TEMPORARY PERMITS**

11 **107.1 Issuance.** The Chief may issue temporary permits establishing fire safety controls for:

- 12 1. An activity not specifically regulated, but where regulatory safeguards are necessary because  
13 of unusual circumstances.  
14 2. Interim operation of a regulated activity at reduced scope and/or with temporary fire  
15 safeguards until permanent fire prevention features are provided.  
16 3. Time-limited special situations where use of a permit to specify fire prevention controls is  
17 necessary in the judgement of the Chief.  
18 4. Pier crossing permits (transportation, only--no storage) for hazardous materials.

19 **SECTION 108 -- LIABILITY INSURANCE**

20 **108.1 Required.** Where liability insurance is required by any section of this Code or as a  
21 permit condition for any controlled hazardous activity, the applicant shall file with the Chief a  
22 "Certificate of Insurance." The applicant's policy shall evidence a "Comprehensive General  
23 Liability" (including automobile coverage) insurance limit of \$2 million (\$2,000,000), combined  
24 single limit per occurrence and annual aggregate, no deductible and naming the City of Seattle  
25 as an additional insured. The Chief may increase or decrease these amounts.

26 In those instances where this Code requires as a condition of issuing a permit that the applicant  
27 for the license shall provide insurance, the purpose of the requirement is to insure that  
28 members of the public and the City will be compensated for losses caused by personal injury or

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property damage resulting from the negligent acts of the licensees or their agents or employees.

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Whenever the issuance of a permit is conditioned upon obtaining a policy or policies of public liability insurance by the applicant for such license, the policy:

1. Shall be issued by a company or companies authorized to do business as an insurer in Washington State pursuant to the provisions of R.C.W. Title 48 as now or hereafter amended;

2. Shall contain, by endorsement or otherwise, the following recital:

"This policy is issued pursuant to Section 108 of the Fire Code (Ordinance No. \_\_\_\_\_, as amended), of the City of Seattle for the purpose of complying with the conditions and requirements of the Code. Any exception, limitation, provision or omission in this policy (including all other endorsements thereto) in conflict with such condition or requirement is void. This policy shall be continuous until cancelled and terminable only on at least ten (10) days written notice to the Fire Chief."

3. May be approved as to sufficiency and form by the City Attorney and/or the City Risk Manager at the request of the Chief; and

4. Shall be furnished to the Chief for filing with the City Clerk.

Section 26. Section 203 of the Uniform Fire Code is amended by adding thereto a new definition of BASEMENT and BUREAU OF FIRE PREVENTION to read as follows:

\* \* \* \*

**BASEMENT** is any floor below the first story in a building (~~except that a floor level in a building having only one floor level shall be classified as a basement unless such floor level qualifies as a first story as defined in the Building Code~~) and shall also include "stories, basement-like" which are partially below grade or otherwise enclosed and where the Fire Chief determines that egress or emergency access is restricted or that flammable vapors may concentrate in such manner that basement regulations shall apply.

\* \* \* \*

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**BUREAU OF FIRE PREVENTION** is the ~~((fire prevention bureau of the jurisdiction))~~ Seattle  
Fire Department Fire Marshal's Office.

Section 27. Section 204 of the Uniform Fire Code is amended by adding thereto new definitions of **CENTRAL STATION**, **CENTRAL STATION FIRE ALARM SYSTEM**, **CENTRAL STATION SERVICE** and **CERTIFICATION** respectively to read as follows:

\* \* \* \*

**CENTRAL STATION** shall mean a supervising station that is listed for central station service.

**CENTRAL STATION FIRE ALARM SYSTEM** shall mean a system or group of systems in which the operations of circuits and devices are transmitted automatically to, recorded in, maintained by, and supervised from a central station having competent and experienced servers and operators who, upon receipt of a signal, take such action as required by this code. Such service is to be controlled and operated by a person, firm, or corporation whose business is the furnishing, maintaining, or monitoring of supervised fire alarm systems.

**CENTRAL STATION SERVICE** shall mean the use of a system or a group of systems in which the operations of circuits and devices at a protected property are signaled to, recorded in, and supervised from a central station having competent and experienced operators who, upon receipt of a signal, take such action as required by this code. Related activities at the protected property such as equipment installation, inspection, testing, maintenance, and runner service are the responsibility of the central station or a listed fire alarm service - local company. Central station service is controlled and operated by a person, firm, or corporation whose business is the furnishing of such contracted services or whose properties are the protected premises.

\* \* \* \*

**CERTIFICATION** shall mean a complete record of tests and examination procedures, including problems found and corrections made.

Section 28. Section 207 of the Uniform Fire Code is amended by adding thereto new

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definitions to read as follows:

\* \* \* \*

**FALSE ALARM REPORTING, MALICIOUS.** A person is guilty of false alarm reporting when, with knowledge that the information reported, conveyed, or circulated is false, s/he initiates or circulates a false report or warning of an alleged or impending occurrence of a fire, explosion, crime, catastrophe, or emergency knowing that such false report is likely to cause evacuation of a building, place of assembly, or transportation facility, or to cause substantial public inconvenience or alarm.

\* \* \* \*

**FIRE DETECTION SYSTEM** is a system which uses heat, smoke or other approved devices for detection and is monitored by an approved central station.

**FIRE DISTRICT** shall consist of that part of the city within the boundary described in Section 511 of the Seattle Building Code. See Appendix VI-D.

Section 29. Section 216, **OCCUPANCY CLASSIFICATION**, first paragraph of the Uniform Fire Code is amended to read as follows:

**OCCUPANCY CLASSIFICATION.** For the purpose of this code, certain occupancies are defined as follows:

...Refer to the Seattle Building Code for additional occupancy definitions.

Section 30. Section 216, **OCCUPANCY CLASSIFICATION** of the Uniform Fire Code is amended by revising **Division 7** under **Group H Occupancies** to read as follows:

**Division 7.** Occupancies having quantities of materials in excess of those listed in Table 8001.13-B that are health hazards, including:

1. Corrosives.
2. Toxic and highly toxic materials.
- ~~(3. Irritants.)~~
- ~~(4. Sensitizers.)~~
- ~~(5. Other health hazards.)~~

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1 Section 31. Section 220 of the Uniform Fire Code is amended by adding thereto a new  
2 definition of **SOLVENT DISTILLATION UNIT** to read as follows:

3 \* \* \* \*

4 **SOLVENT DISTILLATION UNIT** shall mean an appliance that receives contaminated  
5 flammable or combustible solvents and distills the contents to remove contaminants and recover  
6 the solvent(s).

7 Section 32. Subsection 1001.5.1 of the Uniform Fire Code is hereby repealed. Section 1001 of  
8 the Uniform Fire Code is amended by adding thereto a new subsection 1001.5.1 to read as  
9 follows:

10 **1001.5.1 General.** Sprinkler systems, fire hydrant systems, stand pipe systems, fire alarm  
11 systems, portable fire extinguishers, smoke and heat ventilators, smoke-removal systems and  
12 other fire-protective or extinguishing systems or appliances shall be maintained in an operative  
13 condition at all times and shall be replaced or repaired where defective. Fire-protection or  
14 extinguishing systems coverage, spacing and specifications and fire alarm systems shall be  
15 maintained in accordance with Article 10 and recognized standards at all times. Such systems  
16 shall be extended, altered or augmented as necessary to maintain and continue protection  
17 whenever any building so equipped is altered, remodeled or added to. Additions, repairs,  
18 alterations and servicing shall be in accordance with approved standards.

19 Maintenance and periodic testing are the owner's responsibility, or the responsibility of such  
20 other person as may be designated in a lease of the premises, and are separate from Fire  
21 Department inspections.

22 Maintenance testing shall be performed in accordance with this code and Administrative  
23 Rulings published by the Chief.

24 Where certified inspection, testing, or qualification of fire protection equipment is required by  
25 nationally recognized standards, laws, ordinances, or administrative rules, the Chief shall require  
26 that the person, firm or corporation performing such work have a certificate from the Fire  
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Department. See Appendix III-B.

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Section 33. Subsection 1003.2 of the Uniform Fire Code is amended to read as follows:

**1003.2 Required Installations.** An automatic fire extinguishing system shall be installed when required by Building Code Section 904 (see Appendix VI-D).

For provisions on special hazards and hazardous materials see Articles 45, 79, 80, 81 and 88.

Additional automatic sprinkler systems may be required for:

<u>Area increase</u> .....	<u>Building Code</u> .....	<u>Sec. 505</u>
<u>Height increase</u> .....	<u>Building Code</u> .....	<u>Sec. 506</u>
<u>Fire Resistive Substitution</u> .....	<u>Building Code</u> .....	<u>Sec. 508</u>
<u>Atria</u> .....	<u>Building Code</u> .....	<u>Sec. 402</u>
<u>High-rise</u> .....	<u>Building Code</u> .....	<u>Sec. 403</u>
<u>Exiting</u> .....	<u>Housing and Building Maintenance Code</u>	
<u>Fire Dept. access</u> .....	<u>Fire Code</u> .....	<u>Section 902</u>
<u>Retroactive Ordinance</u> .....	<u>Fire Code</u> .....	<u>Articles 190-193</u>

<p><b>POINT OF INFORMATION:</b></p> <p><u>Requirements concerning automatic fire extinguishing system installations and exit lights are drawn from the Seattle Building Code. Building Code text replaces Fire Code text in those instances.</u></p>
--

Section 34. Subsection 1003.3.1 of the Uniform Fire Code is amended by adding thereto a new subsection 1003.3.1.1 to read as follows:

**1003.3.1.1 Additional requirements.** Automatic sprinkler water-flow alarms installed after the effective date of this code in occupancies requiring a fire alarm shall be connected to the alarm system.

Range hood fire suppression, approved extinguishing systems and pre-action sprinkler systems installed after the effective date of this code shall be connected to the building fire alarm system to provide an alarm when the system discharges.

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1 Equipment to be installed in areas subject to freezing shall be approved for the temperature  
2 anticipated.

3 Section 35. Subsection 1004.3 of the Uniform Fire Code is hereby repealed. Section 1004 of  
4 the Uniform Fire Code is amended by adding thereto a new subsection 1004.3 to read as  
5 follows:  
6

7 **1004.3 Location of Class I Standpipe Hose Connections.** There shall be a Class I standpipe  
8 outlet connected at every floor-level landing of every required stairway above or below grade  
9 and on each side of the wall adjacent to the exit opening of a horizontal exit. Outlets at  
10 stairways shall be located within the exit enclosure or, in the case of pressurized enclosures,  
11 within the vestibule or exterior balcony, giving access to the stairway.

12  
13 Risers and laterals of Class I standpipe systems not located within an enclosed stairway or  
14 smokeproof enclosure shall be protected by a degree of fire resistance equal to that required  
15 for vertical enclosures in the building in which they are located.

16  
17 **EXCEPTION:** In buildings equipped with an approved automatic sprinkler system,  
18 risers and laterals which are not located within an enclosed stairway  
19 or smokeproof enclosure, need not be enclosed within fire-resistive  
20 construction.

21 There shall be at least one two-way outlet above the roof line when the roof has a slope of less  
22 than 4 inches vertical in 12 inches horizontal.

23  
24 Roof outlets within 10 feet of any roof edge skylight or other opening shall be protected by a  
25 42 inch high guardrail or parapet at the opening.

26  
27 In buildings where more than one standpipe is provided, the standpipes shall be interconnected  
28 at the bottom.

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See Table 1004-A and Seattle Building Code Section 904.5 for standard code alternates.

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Section 36. Subsection 1004.4 of the Uniform Fire Code is hereby repealed. Section 1004 of the Uniform Fire Code is amended by adding thereto a new subsection, 1004.4 to read as follows:

**1004.4 Location of Class II Standpipe Hose Connections.** Class II standpipe outlets shall be accessible and shall be located so that all portions of the building are served by hose stations containing 100 feet of hose. The hose nozzle shall extend into the most remote room, vehicle or similar enclosure served.

Group A, Divisions 1 and 2.1 Occupancies with occupant loads of more than 1,000 shall have outlets located on each side of any stage, on each side of the rear of the auditorium and on each side of the balcony.

Fire-resistant protection of risers and laterals of Class II standpipe systems is not required.

Section 37. Table No. 1004-A - STANDPIPE REQUIRED SYSTEMS of the Uniform Fire Code is hereby repealed. Section 1004 of the Uniform Fire Code is amended by adding thereto a new Table No. 1004-A to read as follows:

**TABLE 1004-A--STANDPIPE REQUIRED SYSTEMS**

OCCUPANCY <sup>13</sup>	NONSPRINKLERED BUILDING <sup>1</sup>		SPRINKLERED BUILDING <sup>2,3</sup>	
	Standpipe Class	Hose Requirement	Standpipe Class	Hose Requirement
1 Occupancies exceeding 75 ft. in height <sup>10</sup>	III <sup>8,9</sup>	Yes <sup>5</sup>	I <sup>8,9</sup>	No
2 Occupancies 4 stories or more but less than 75 ft. in height, except Group R, Division 3 <sup>7</sup>	[I <sup>8,9,11</sup> , and II <sup>4</sup> ] (or III <sup>8,9</sup> )	Yes <sup>5</sup>	I <sup>8,9,11</sup> (or III <sup>8,9</sup> )	No
3 Group A Occupancies with occupant load exceeding 1,000 <sup>6</sup>	II	Yes	No requirement	No

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4. Group A, Division 2.1 Occupancies over 5,000 square feet in area used for exhibition	II	Yes	II	Yes
5. Groups I; H; B; S; M; F Division 1 Occupancies less than 4 stories in height but greater than 20,000 square feet per floor <sup>7, 12</sup>	II <sup>4</sup>	Yes	No requirement <sup>12</sup>	No <sup>12</sup>
6. Stages more than 1,000 square feet in area	II	Yes	II	Yes

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- 1 Except as otherwise specified in Item 4 of this table, Class II standpipes need not be provided in basements having an automatic fire extinguishing system throughout.
- 2 The standpipe system may be combined with the automatic sprinkler system.
- 3 Portions of otherwise sprinklered buildings which are not protected by automatic sprinklers shall have Class II standpipes installed as required for the unsprinklered portions.
- 4 In open structures where Class II standpipes may be damaged by freezing, the building official may authorize the use of Class I standpipes which are located as required for Class II standpipes.
- 5 Hose is required for 1-1/2 inch outlets only.
- 6 Class II standpipes need not be provided in assembly areas used solely for worship.
- 7 For the purposes of this table, occupied roofs of parking structures shall be considered an additional story. In parking structures, a tier is a story.
- 8 Fire department outlets on Class I and III standpipes need not be provided at grade level or floors below grade when all portions of such floor are within 150 feet (45,720 mm) hose travel distance of grade level exterior doors fronting on streets or yards usable by fire department apparatus.
- 9 Class I and III standpipes shall have two 2-1/2 inch (63.5 mm) roof outlets. The outlets shall be a minimum of 10 feet (3,045 mm) from the roof edge, skylight, light well or other opening, unless protected by a 42-inch (1,067 mm) high guardrail or equivalent.
- 10 For additional requirements, see Section 403 of the Seattle Building Code.
- 11 The Class I standpipe may be omitted in Group B and Group R, Division 1 Occupancies when primary fire department vehicle access is provided on at least one side within 3 stories of the roof (not over 35 feet (10,668 mm) total height).
- 12 See Article 81 of the Fire Code for special requirements for high-piled combustible storage.
- 13 See Section 413.8 for requirements for standpipes on waterfront structures.

Section 38. Section 1007 of the Uniform Fire Code is hereby repealed. Article 10 of the Uniform Fire Code is amended by adding thereto a new section 1007 to read as follows:

**Section 1007 -- FIRE ALARM SYSTEMS**

**1007.1 General.**

**1007.1.1 Applicability.** Installation and maintenance of fire alarm systems shall be in accordance with Section 1007.

**1007.1.2 Retroactive requirements.** Section 1007 is retroactive when an existing building has a

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1 substantial remodel, addition or change of use as defined in the Building Code or a fire alarm  
2 panel is replaced.

3 Audibility standards to 15 dBA above ambient, 60 dBA minimum are retroactive in sleeping  
4 rooms of existing residential occupancies.

5 **1007.1.3 Approval and Testing.** See Sections 1001.4 and 1007.3.4.

6 **1007.1.4 Maintenance.** See Section 1001.5.1.

7 **1007.1.5 Problematic systems and systems out of service.** In the event of temporary failure of  
8 the alarm system or an excessive number of accidental alarm activations, the Chief is authorized  
9 to require the building owner or occupant to provide standby personnel as set forth in Section  
10 2501.19 until the system is restored.

11 **1007.1.6 Definitions.**

12 **1007.1.6.1 General.** See Section 1001.2.

13 **1007.1.6.2 Limited application.** For the purpose of Article 10, certain terms are defined as  
14 follows:

15 **BASIC FIRE ALARM SYSTEM** consists of manual fire alarm boxes at the exits, approved  
16 automatic detection in unsprinklered storage rooms, retail sales areas, shops, kitchens, laundry  
17 rooms, parking garages, central furnace and boiler room and over the alarm panel. Alarms  
18 shall be audible throughout, with a control panel and system wiring approved for fire alarms.

19 **1007.2 Required Installations.**

20 **1007.2.1 General.**

21 **1007.2.1.1 When required.** An approved manual, automatic or manual and automatic fire  
22 alarm system shall be provided in accordance with Section 1007.2.

23 **1007.2.1.1.1 Occupant load considerations.** Where there are more than 200 occupants above  
24 or 25 occupants below the level of exit discharge, the building shall have a basic fire alarm  
25 system.

26 **EXCEPTIONS:** 1. Fully sprinklered Group B Occupancies.

27 2. Existing Group B office buildings with exits conforming to the current Seattle  
28 Building Code.

**1007.2.1.2 Area separation walls.** For the purposes of Section 1007, area separation walls shall  
not define separate buildings.

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1 **1007.2.1.3 Single family/duplex occupancies.** Group R occupancies require single station or  
2 interconnected smoke detection per the Seattle Building Code. This requirement is retroactive  
3 when the occupancy is sold or rented; however, single powered, line voltage or battery detectors  
4 are approved for the retroactive requirement.

5 **1007.2.2 Group A Occupancies.**

6 **1007.2.2.1 General.** Group A occupancies with an occupant load exceeding 300 shall have a  
7 basic fire alarm system with voice alarm connected to central station.

8 **EXCEPTION:** Churches, gymnasiums, field house and similar occupancies without  
9 basements or 2nd floors are exempt.

10 **1007.2.3 Group B Occupancies.** See Sections 1007.2.1.1.1 and 1007.2.12.

11 **1007.2.4 Group E Occupancies.**

12 **1007.2.4.1 General.** Group E Occupancies shall be provided with fire alarm systems in  
13 accordance with Section 1007.2.4. Group E, Division 1 Occupancies and Group E, Division 3  
14 Occupancies having an occupant load of 50 or more shall be provided with an approved basic  
15 fire alarm system.

16 When automatic sprinkler systems or smoke detectors provided in accordance with Section  
17 1007.2.4.2 are installed, such systems or detectors shall be connected to the building fire alarm  
18 system.

19 **1007.2.4.2 Smoke detectors.**

20 **1007.2.4.2.1 Increased travel distance.** Smoke detectors shall be installed when required by the  
21 Building code for increases in travel distance to exits. (See U.B.C. Section 1017.3.)

22 **1007.2.4.2.2 Exits through adjoining rooms.** Smoke detectors shall be installed when required  
23 by the Building Code to allow the only means of egress from a room to be through adjoining or  
24 intervening rooms. (See U.B.C. Section 1017.4.)

25 **1007.2.4.3 Exterior alarm-signaling device.** An alarm-signaling device shall be mounted on the  
26 exterior of the building.

27 **1007.2.4.4 Multi-level occupancies.** A basic fire alarm system shall be provided for all multi-  
28 level Group E occupancies. This includes any Group E occupancy located over another  
occupancy.

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1007.2.4.5 **Day care occupancies.** Any sleeping room shall be provided with smoke detection.

1           **EXCEPTION:** If the day care center is one story in height and has less than 50  
2           occupants, interconnected, single station smoke detectors may be used.

3 1007.2.5 **Group F Occupancies.** See Section 1007.2.1.1.1.

4 1007.2.6 **Group H Occupancies.**

5 1007.2.6.1 **General.** Group H Occupancies shall be provided with fire alarm systems in  
6 accordance with Section 1007.2.6. See also Section 1007.2.1.1.1.

7 1007.2.6.2 **Organic coatings.** Organic coating manufacturing uses shall be provided with a basic  
8 fire alarm system. See Article 50.

9 1007.2.6.3 **Group H, Division 6 Occupancies.** Group H, Division 6 Occupancies shall be  
10 provided with a basic fire alarm system. See Article 51.

11 1007.2.6.4 **Rooms used for storage, dispensing, use and handling of hazardous materials.** When  
12 required by Article 80, rooms or areas used for storage, dispensing, use or handling of highly  
13 toxic compressed gases, liquid and solid oxidizers, and Class I, II, III or IV organic peroxides  
14 shall be provided with an automatic detection system.

15 1007.2.7 **Group I Occupancies.**

16 1007.2.7.1 **Divisions 1.1, 1.2 and 2 Occupancies.**

17 1007.2.7.1.1 **System requirements.** Group I, Divisions 1.1, 1.2 and 2 Occupancies shall be  
18 provided with an approved manual and automatic fire alarm system in accordance with Section  
19 1007.2.7.1. See also Section 1007.2.12. Smoke detection shall be provided in accordance with  
20 the Building Code.

21 1007.2.7.1.1.1. **Smoke detection.** Smoke detection shall be provided at automatic-closing doors  
22 in smoke barriers and one-hour fire-resistive occupancy separations (see U.B.C. Sections  
23 308.2.2.1 and 308.8) and in waiting areas which are open to corridors (see U.B.C. Section  
24 1019.3).

25 1007.2.7.1.1.2 **Audibility.** When actuated, alarm-initiating devices shall activate an alarm signal  
26 which is audible throughout the building.

27           **EXCEPTION:** Visual alarm-signaling devices are allowed to substitute for audible  
28           devices in patient use areas.

1007.2.7.1.2 **Patient room smoke detectors.** Smoke detectors which receive their primary

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1 power from the building wiring shall be installed in patient sleeping rooms of hospital and  
2 nursing homes. Actuation of such detectors shall cause a visual display on the corridor side of  
3 the room in which the detector is located and shall cause an audible and visual alarm at the  
4 respective nurses' station. When single-station detectors and related devices are combined with  
5 a nursing call system, the nursing call system shall be listed for the intended combined use.

6 **EXCEPTION:** In rooms equipped with automatic door closers having integral smoke  
7 detectors on the room side, the integral detector may substitute for the room smoke  
8 detector, provided it performs the required alerting functions.

9 **1007.2.7.2 Division 3 Occupancies.**

10 **1007.2.7.2.1 General.** Group I, Division 3 Occupancies shall be provided with a manual and  
11 automatic fire alarm system installed for alerting staff in accordance with Section 1007.2.7.2.  
12 See also Section 1007.2.12.

13 **1007.2.7.2.2 System initiation.** Actuation of an automatic fire-extinguishing system, a manual  
14 fire alarm box or a fire detector shall initiate an approved fire alarm signal which automatically  
15 notifies staff. Presignal systems shall not be used.

16 **1007.2.7.2.3 Manual fire alarm boxes.**

- 17 1. **General.** Manual fire alarm boxes need not be located in accordance with  
18 Section 1007.3.3.1 when they are provided at staff-attended locations having  
19 direct supervision over areas where manual fire alarm boxes have been omitted.
- 20 2. **Locking of manual fire alarm boxes.** Manual fire alarm boxes are allowed to be  
21 locked in areas occupied by detainees, provided that staff members are present  
22 within the subject area and have keys readily available to operate the manual  
23 fire alarm boxes.

24 **1007.2.7.2.4 Smoke detection.** An approved automatic smoke-detection system shall be  
25 installed throughout resident housing areas, including sleeping areas and contiguous day rooms,  
26 group activity spaces and other common spaces normally accessible to residents.

27 **EXCEPTION:** Other approved smoke-detection arrangements providing equivalent  
28 protection, such as placing detectors in exhaust ducts from cells or behind protective  
grilles, are allowed when necessary to prevent damage or tampering.

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1 **1007.2.7.2.5 Zoning and annunciation.** Alarm and trouble signals shall be annunciated at an  
2 approved constantly attended location. Such signals shall indicate the zone of origin.

3 Separate zones shall be provided for individual fire-protection systems, buildings, floors, jail  
4 facilities and sections of floors compartmented by smoke-stop partitions.

5 **1007.2.7.2.6 Monitoring.** The fire alarm system shall be monitored by an approved central,  
6 proprietary or remote station service or by transmission of a local alarm which will give audible  
7 and visual signals at an approved constantly attended location.

8 **1007.2.8 Group M Occupancies.** See Sections 1007.2.1.1.1 and 1007.2.12.

9 **1007.2.9 Group R Occupancies.**

10 **1007.2.9.1 General.** Group R, Division 1 occupancies of three or more stories or 16 or more  
11 units, or 20 or more guest rooms, or 20 or more occupants in a congregate residence shall have  
12 a basic fire alarm system plus corridor smoke detection.

- 13 **EXCEPTIONS:** 1. The 16 unit requirement is not retroactive for buildings constructed  
14 prior to 1983.  
15 2. Sprinklered Group R, Division 1 buildings may delete corridor smoke detection and  
16 manual fire alarm boxes except at building exit discharge to the exterior.  
17 3. Row or townhouses three stories or less in height, where no unit extends under  
18 another and each unit has its own exit.

19 **1007.2.9.2 State licensed facilities.** Group LC occupancies three or more stories in height or  
20 with more than 16 clients shall have a basic fire alarm system.

21 **1007.2.9.3 Sprinklered buildings.** The water flow alarm shall be connected to the building fire  
22 alarm system in all Group R occupancies requiring a fire alarm system. When a fire alarm  
23 system is not required, the water flow alarm shall be audible at 70 dBA throughout and a non-  
24 supervised system may be used.

25 **1007.2.9.4 Partially sprinklered buildings.** Where there are unsprinklered areas below or  
26 adjacent to residential units and their exitways, approved automatic detection connected to the  
27 building fire alarm shall be provided.

28 **1007.2.10 Group S Occupancies.** See Sections 1007.2.1.1.1 and 1007.2.12.

**1007.2.11 Group U Occupancies.** No requirements.

**1007.2.12 Special uses and conditions.**

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**1007.2.12.1 Amusement buildings.**

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**1007.2.12.1.1 General.** An approved smoke-detection system shall be provided in amusement buildings in accordance with Section 1007.2.12.1.

**EXCEPTION:** In areas where ambient conditions will cause a smoke-detection system to alarm, an approved alternate type of automatic detection shall be installed.

**1007.2.12.1.2 Alarm system.** Activation of any single smoke detector, the automatic sprinkler system or other automatic fire-detection device shall immediately sound an alarm in the building at a constantly supervised location from which the manual operation of systems noted in Section 1007.2.12.1.3 can be initiated.

**1007.2.12.1.3 System response.** The activation of two or more smoke detectors, a single smoke detector monitored by an alarm verification zone, the automatic sprinkler system or other approved fire-detection device shall automatically:

1. Stop confusing sounds and other visual effects,
2. Activate approved directional exit marking, and
3. Cause illumination of the exit path with light of not less than one footcandle at the walking surface.

**1007.2.12.1.4 Public address system.** The public address system is also allowed to serve as an alarm.

**1007.2.12.2 High-rise buildings.**

**1007.2.12.2.1 General.** Existing high-rise buildings shall have a fire alarm system as required in Article 193. New high-rise buildings shall have a fire alarm system meeting Seattle Building Code Section 403 requirements.

**1007.2.12.2.2 Reliability.** Systems shall be designed so that no single component failure can put the entire voice alarm or shaft pressurization control systems out of service.

**1007.2.12.2.3 Buildings with atriums.** Actuation of an atrium smoke-control system required by the Building Code shall initiate an audible fire alarm signal in designated portions of the building. Manual controls for the mechanical smoke control system and where provided, for the gravity venting system shall be provided at the fire control panel.

**1007.2.12.4 High-piled combustible storage uses.** When required by Article 81, high-piled

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combustible storage uses shall be provided with an automatic smoke-detection system  
1 throughout.

2 **1007.2.12.5 Special egress-control devices.** When special egress-control devices are installed on  
3 exit doors, an automatic smoke-detection system shall be installed throughout the building.

4 (See Seattle Building Code Section 1004.5).

5 **1007.2.12.6 Aerosol storage uses.** When required by Article 88, aerosol storage rooms and  
6 general purpose warehouses containing aerosols shall be provided with an approved manual  
7 alarm system.

8 **1007.2.12.7 Smoke-control systems.** An approved automatic smoke-detection system shall be  
9 provided when required by the Building Code for automatic control of a smoke-control system.

10 (See Seattle Building Code Section 905.9.)

11 **1007.3 General System Design and Installation Requirements.**

12 **1007.3.1 Design standards.**

13 **1007.3.1.1 General.** Complete plans and specifications for fire alarm systems shall be  
14 submitted for review and approval prior to system installation. Plans and specifications shall  
15 include, but not be limited to: a floor plan, location of all alarm-initiating and alarm-signaling  
16 devices, alarm control and trouble-signaling equipment, annunciation, power connection, battery  
17 calculations, wiring type and sizes.

18 **1007.3.2 System Design.** Fire alarms shall be designed in accordance with UFC Standard 10-2  
19 except as modified by: this code, applicable sections of the Seattle Building and Electrical  
20 Codes, rulings published by the Fire Chief or Director of the Department of Construction and  
21 Land Use.

22 **1007.3.3 System layout and operation.**

23 **1007.3.3.1 Manual fire alarm boxes.** Manual fire alarm boxes shall be mounted per UFC  
24 Standard 10-2 at a maximum height of 54 inches above the floor at every exit on every floor.

25 **EXCEPTIONS:** 1. Manual fire alarm boxes at staff attended locations.

26 2. Manual fire alarm boxes are not required on sprinklered floors of Groups B, F-1, M,  
27 S-1 and S-2 Occupancies.

28 3. Manual fire alarm boxes are not required on floors above or below the level of exit  
discharge in sprinklered Group R, Division 1 buildings.

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1 4. Existing systems with manual fire alarm boxes installed on alternate floors per earlier  
standards.

2 5. Manual fire alarm boxes are not required on mezzanine floors that exit through  
3 other floors.

4 6. In those instances where no building fire alarm is required, manual fire alarm boxes  
5 may be omitted in sprinklered occupancies where the water flow alarm is connected to  
6 an approved central station.

7 **1007.3.3.2 Control units, annunciator panels and access keys.** The alarm control unit, remote  
8 annunciator panel and access keys to locked fire alarm equipment shall be installed and  
9 maintained in a location approved by the Chief.

10 **1007.3.3.2.1 Annunciator panels.** Annunciator panels shall be located at the main building  
11 entrance. When an exception is approved for any reason, a sign shall be provided at the main  
12 entrance indicating annunciators' location. Exterior annunciators shall be weather-proof.  
13 Information showing control panel location shall be provided at remote annunciators. Graphic  
14 annunciators shall be mounted to maintain the viewer's directional orientation.

15 **1007.3.3.2.2 Location.** Alarm panels and annunciators shall not be installed where they would  
16 obstruct exiting. The required exit width plus 12 inches shall be provided when the panel is  
17 located in a means of egress. Alarm panels shall not be installed in an exit enclosure providing  
the sole exit from any space.

18 Equipment installed in areas subject to freezing shall be approved for the temperature  
19 anticipated.

20 **1007.3.3.3 Alarm initiation and signal.**

21 **1007.3.3.3.1 General.** When actuated, fire alarm-initiating devices shall activate an alarm signal  
22 which is audible throughout the building or in designated portions of the building when  
23 approved by the Chief.

24 **EXCEPTION:** Single-station detectors in dwelling units, rooms used for sleeping  
25 purposes in hotel and lodging houses, and patient sleeping rooms in hospitals and  
26 nursing homes.

27 **1007.3.3.3.2 Alarm signal.** The alarm signal shall be a slow whoop in voice alarm type systems.

28 **EXCEPTIONS:** 1. A keyed temporal signal per UFC Standard 10-2 may be

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substituted for the slow whoop.

2. A chime signal may be used in patient care facilities.

**1007.3.3.3.3 Audibility.** Alarms shall be audible at 15 dBA above average ambient or 5 dBA above the maximum sound level having a duration of at least 60 seconds (whichever is greater) and 60 dBA minimum in all occupied areas. Audibility shall be measured with doors closed and after carpet and other sound-absorbing materials are installed.

**EXCEPTIONS:** 1. In sleeping areas, alarms shall be audible at 15 dBA above ambient and 70 dBA minimum.

2. In Groups A, B, E, I, and M occupancies, audibility may be measured with doors open to rooms up to 300 square feet, provided the door is not equipped with a closer.

3. Audibility is not required where patients or inmates are restrained, and as outlined in Section 1007.2.7.1.1.2.

4. Systems installed prior to the effective date of this code with alarms audible at 15 dBA above ambient, 60 dBA minimum in sleeping areas, and 10 dBA above ambient, 55 dBA minimum elsewhere measured with doors closed, unless specifically exempted.

**1007.3.3.3.3.1 Sound system shut-down.** Areas used for loud music concerts or similar activities shall have an amplifier shut-down connected to the fire alarm system.

**1007.3.3.3.4 Visual alarms.** Visual alarms for accessibility shall be installed with new fire alarm systems as required under Chapter 11 of the State Building Code. Visual alarms shall be installed in other occupancies when the Chief has determined that audible alarms are not sufficient to provide adequate fire and life safety. Visual alarms shall be installed in accordance with Uniform Fire Code Standard 10-2.

**1007.3.3.3.5 Automatic sprinkler water flow.** Automatic sprinkler water flow alarm in occupancies requiring a fire alarm shall be connected to the alarm system.

**EXCEPTIONS:** 1. Basement parking garages not used as exits from the building.

2. Systems of twenty (20) or fewer sprinklers and not part of exitway protection.

**1007.3.3.3.6 Alarm initiation devices.** All new alarm initiation devices shall be connected to the building fire alarm system.

**EXCEPTIONS:** 1. Buildings where a fire alarm system is not required.

2. In-unit residential smoke detectors.

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3. Door release devices when approved by the Chief.

1 **1007.3.3.3.7 Fire extinguishing systems.** Range hood fire suppression, approved extinguishing  
2 systems and pre-action sprinkler systems installed after the effective date of this code shall be  
3 connected to the building fire alarm system to provide an alarm when the system discharges.

4 **1007.3.3.4 Connections to other systems.** A fire alarm system shall not be used for any  
5 purpose other than fire warning unless approved by the Chief. Listed or approved combination  
6 fire alarm and security systems may be installed in any occupancy. Fire alarm signals shall be  
7 distinct from security signals.

8 Non-required fire detection may be added to security systems without plan approval or Fire  
9 Department inspection.

10 **1007.3.3.5 Supervision.** Means of interconnecting equipment, devices and appliances shall be  
11 supervised for the integrity of the interconnecting conductors or equivalent, as set forth in  
12 U.F.C. Standard 10-2.

13 **1007.3.3.6 Monitoring.**

14 **1007.3.3.6.1 General.** When required by the Chief, fire alarm systems shall be monitored by an  
15 approved central, proprietary or remote station service or a local alarm which gives audible and  
16 visual signals at a constantly attended location.

17 **1007.3.3.6.2 Automatic telephone dialing devices.** Automatic telephone dialing devices used to  
18 transmit an emergency alarm shall not be connected to any fire department telephone number  
19 unless approved by the Chief.

20 **1007.3.3.7 Annunciation.** A zoned system with annunciation shall be provided for buildings +  
21 or more stories in height, 3 or more buildings on a common alarm, or buildings with 3 or more  
22 main entrances.

23 Buildings other than high-rise may be zoned by floor or zoned by logical divisions such as: by  
24 building for multiple small buildings, by building division, by areas covered by different sprinkler  
25 systems and by elevator prime and alternate recall zones. Elevator machine rooms are a  
26 separate zone when sprinklers are valved off.

27 The maximum zone on a single water flow alarm shall not exceed 5 floors or 24,000 square feet  
28 unless other devices such as full corridor smoke detection are provided and zoned by floor.

High-rise buildings shall be zoned by floor.

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**EXCEPTIONS:** 1. Existing Article 193 buildings.

2. Where openings in the floor are permitted, adjust smoke detection zones to encompass the entire open area and adjust initial alarm zones to include the open area and floor above.

**1007.3.4 Acceptance test and certification.**

**1007.3.4.1 Acceptance test.** Upon completion and after electrical inspection of the installation, a satisfactory test of the entire system shall be made in the presence of the Chief. All functions of the system or alteration shall be tested by a certified individual. See Appendix III-B.

**1007.3.4.2 Certification.** The permit holder shall provide written certification to the Chief that the system has been installed in accordance with the approved plans and specifications. Service labels shall be affixed. See Appendix III-B.

**1007.3.4.3 Instructions.** When required by the Chief, operating, testing and maintenance instructions and "as-built" drawings and equipment specifications shall be provided at an approved on-site location.

**1007.3.4.4 Maintenance and confidence testing.** Fire alarm and fire detection systems shall be functionally tested monthly and receive a complete maintenance test annually. Persons performing the maintenance test shall have Seattle Fire Department certificates. See Appendix III-B.

High-rise buildings are required to be on a quarterly testing schedule.

**EXCEPTIONS:** 1. The monthly functional test may be eliminated, provided that a certified person performs functional tests on a quarterly schedule.

2. The annual maintenance test may be performed in increments, provided that the entire system is tested within one year.

**1007.3.5 Fire Detection.**

**1007.3.5.1 Additional required fire detection systems.** Fire detection shall be provided in all buildings or additions hereinafter constructed which exceed 3,000 square feet of gross floor area.

Audibility is not required.

UL listed burglar/fire alarm systems are approved. Systems listed for security only are not approved.

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**EXCEPTIONS:** 1. Group U or Group R Occupancies.

2. Occupancies protected by an approved automatic sprinkler system.

3. Buildings with a monitored alarm system complying with Article 193.

4. Group F, Division 2 Occupancies.

5. Group S, Division 2 and 4 Occupancies.

Section 39. Subsection 1103.2.1.4.1 of the Uniform Fire Code is amended by adding thereto an exception to read as follows:

**1103.2.1.4.1 General.** Rubbish containers kept outside of rooms or vaults shall not exceed 40.5 cubic feet (1.15 m<sup>3</sup>) capacity. Containers exceeding 5 1/3 cubic feet [40 gallons (0.15 m<sup>3</sup>)] capacity shall be constructed of noncombustible materials or nonmetallic materials complying with Section 1103.2.1.4.2.

Containers exceeding 5 1/3 cubic feet [40 gallons (0.15 m<sup>3</sup>)] capacity shall be provided with lids.

**EXCEPTION:** Waste accumulated for collection by the solid waste utility shall be stored in containers (to include recycling containers) specified in the City's solid waste collection contracts authorized by ordinance.

Section 40. Section 1103 of the Uniform Fire Code is amended by adding thereto a new subsection 1103.3.2.7 to read as follows:

**1103.3.2.7 Storage arrangements.** Storage shall be within 20 feet of two aisles each at least 44 inches wide. No block pile shall exceed 40 x 40 feet, unless approved by the Chief. No dead end aisle shall be longer than 10 times its width. All storage in unsprinklered areas shall be within 150 feet aisle travel of Fire Department exterior access openings. Storage shall not obstruct access to extinguishers, standpipe outlets, sprinkler control shut down and safety controls or Fire Department access openings.

Section 41. Section 1103 of the Uniform Fire Code is amended by adding thereto a new subsection 1103.3.4.3 to read as follows:

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**1103.3.4.3 Fuel load.** The amount of combustible furnishings, decorative or display materials located more than 20 feet from ceiling mounted sprinklers in an atrium shall not exceed a fire loading of 2 lbs./sq.ft..

Section 42. Subsection 1105.2 of the Uniform Fire Code is amended to read as follows:

**1105.2 Use.** Asphalt kettles shall not be used inside or on the roof of a building.

**EXCEPTION:** Operations authorized under Seattle Fire Department permit.

Section 43. Section 1210 of the Uniform Fire Code is amended by adding thereto a new subsection 1210.7 to read as follows:

**1210.7 Egress from stairways.** Enclosed stairways serving more than six (6) floors shall have two (2) means of egress from the stairway. Enclosed stairways serving ten (10) or more floors shall have reentry into the building at approximate 5-story intervals. Reentry signs shall be posted in the stair.

**EXCEPTIONS:** 1. Jails.

2. Where telephones connected to a 24-hour staffed location are provided in the stairway in each 5-floor increment that does not have a means of egress.

3. Where any door serving as an entrance to the stair does not automatically lock behind a person entering the stair.

4. Where alternate means of alerting building management to persons trapped in a stairwell are approved by the Building Official.

**POINT OF INFORMATION**

1. See Appendix VI-D for Seattle Building Code Sections 1012 and 1013 on exit illumination and signs.
2. The maintenance of exit signs and exit illumination is determined by the Building Code in effect at the time the building was constructed or substantially remodeled.

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1 Section 44. Subsection 1302.3 of the Uniform Fire Code is hereby repealed. Section 1302 of  
2 the Uniform Fire Code is amended by adding thereto new subsections 1302.3, 1302.3.1, and  
3 1302.3.2 respectively to read as follows:

4 **1302.3 False alarms.**

5 **1302.3.1 Unlawful acts.** It shall be unlawful for any person to give, signal or transmit or for  
6 any person to cause or permit to be given, signaled or transmitted, in any manner, any false  
7 alarm.

8 It shall be unlawful for any person to tamper with or maliciously injure any fire alarm  
9 equipment maintained for the purpose of transmitting fire alarms to the Fire Department.  
10 Reporting a false fire alarm or intentionally tampering with fire alarm equipment is a violation  
11 of Seattle Municipal Code, Section 12A.16.040 titled "False Reporting."

12 A fine in the amount of fifty (\$50) dollars may be levied against the owner or monitoring  
13 agency of any off-premises fire alarm system generating or transmitting a second and each  
14 subsequent system false alarm during any twelve (12) month period.

15 **1302.3.2 Fire Drills.** Nothing in section 1302.3 shall prohibit the sounding of any such signal  
16 essential for the carrying on of any fire drill. The Chief may require notification in advance  
17 when such signal will be sounded, and shall be notified in advance if such signal is transmitted  
18 from a system connected to a central station.

19 Section 45. Section 1302 of the Uniform Fire Code is amended by adding thereto a new  
20 subsection 1302.4 to read as follows:

21 **1302.4 Automatic alarm reporting.** Only approved fire alarm systems may automatically  
22 contact the Fire Department Alarm Center. The contact may be direct or through an approved  
23 third party, such as, but not limited to, a central station service. A third party shall not forward  
24 an alarm to the Fire Alarm Center if the third party is not approved for that purpose or if the  
25 alarm originates from a non-approved system.

26 Section 46. Section 1303 of the Uniform Fire Code is amended by adding thereto a new  
27 subsection 1303.3.7 read as follows:  
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**1303.3.7 High-rise buildings.** High-rise buildings shall conduct fire drills as required by the emergency Operation plan approved under Building Code Section 403 and/or Fire Code Article 193.

Section 47. Subsection 2401.2 of the Uniform Fire Code is amended to read as follows:

**2401.2 Permits.** For permits to use structures or enclosures for aircraft servicing or repair and aircraft refueling vehicles, see Section 105.8, ((Permits)) Items a.2 and a.3. For permits to authorize helicopter lifts of heavy equipment over populated areas, see Section 105.8, Item h.4.

Section 48. Subsection 2501.3 of the Uniform Fire Code is hereby repealed. Section 2501 of the Uniform Fire Code is amended by adding thereto a new subsection 2501.3 to read as follows:

**2501.3 Permits Required.** No place of assembly with an occupant load of 100 or more shall be maintained, operated or used without a permit (see also Section 105). Common use areas at apartments and condominiums such as cabanas and rooftops are not excepted. Any exhibition that introduces flammable or combustible material into a place of assembly or alters the existing configuration in any manner shall be under separate permit.

**EXCEPTIONS:** 1. School auditoriums, open-concept classrooms and similar areas, when used for school functions.

2. Lunchrooms, training centers and similar areas operated for employees or regular building occupants (less than 300 occupants) without appreciable fuel load.

3. Private parties at residences.

Section 49. Subsection 2501.18.3 of the Uniform Fire Code is amended by adding thereto a new item 12 to read as follows:

**2501.18.3 Candles and other open-flame decorative lighting.**

\* \* \*

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1 12. Nothing in this Code shall prevent the participants in religious ceremonies from carrying  
2 hand-held candles. (Ref. RCW 19.27.030 (3)). It is the objective of the Fire Code to prevent  
3 the risk of injury arising from the use of hand-held candles in places of public assembly by  
4 children aged 12 or under. A competent adult shall remain within 15 feet of the child, at all  
5 times, unless an alternative equal safety standard, proposed by the person requesting the  
6 permit, is approved by the Chief.

7 Section 50. Article 25 of the Uniform Fire Code is amended by adding thereto a new Section  
8 2506 - AMUSEMENT BUILDINGS to read as follows:

9  
10 **SECTION 2506 -- AMUSEMENT BUILDINGS**

11 **2506.1 General.** Occupancies used for temporary amusement events and amusement buildings  
12 shall have an automatic fire-extinguishing system installed as approved by the Chief. The Chief  
13 may waive this requirement if the Chief finds that other safeguards already in place adequately  
14 provide for fire and life safety.

15  
16 Section 51. Section 4502.6.2 of the Uniform Fire Code is hereby repealed.

17  
18 Section 52. Section 4901 of the Uniform Fire Code is amended by adding thereto a new  
19 subsection 4901.1.1 to read as follows:

20  
21 **4901.1.1 Definition.** For the purpose of Article 49, the term HOT WORK is defined as  
22 follows:

23 **HOTWORK** means any open-flame or arc-producing device and any activity involving riveting,  
24 welding, cutting, burning, silbrazing, brazing, soldering, use of powder-actuated tools or similar  
25 spark, arc or flame producing activity. Grinding, drilling, heating of couplings or other  
26 machinery, abrasive blasting and similar spark-producing operations in areas where flammable  
27 or explosive atmospheres may be present or produced may be considered hotwork.

28 Section 53. Subsection 4901.3 of the Uniform Fire Code is hereby repealed. Section 4901 of

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1 the Uniform Fire Code is amended by adding thereto a new subsection 4901.3 to read as  
2 follows:

3 **4901.3 Permits.** A permit is required to:

- 4 1. Perform welding or cutting operations.  
5 2. Perform welding or cutting operations on, over, underneath, or adjacent to any  
6 combustible structure. Such permit shall not be required for each job location, but a  
7 copy of said permit shall be available at each job site. The permit holder shall notify  
8 the Chief in advance (24 hours in advance when possible) before performing welding,  
9 burning, or cutting at locations other than those listed on the permit.  
10 3. Conduct hot work on storage tanks, piping and associated systems containing or  
11 previously containing flammable or combustible liquids.  
12 4. Conduct hot work on marine vessels.  
13 5. Produce acetylene for wholesale or retail sales, using an acetylene generator and  
14 maintain storage of calcium carbide associated with such production.

15 **EXCEPTIONS:** 1. Group R, Division 3 and Group U occupancies.

16 2. Use of jewelers' torches and similar small instruments in accordance with Article 82.

17 Section 54. Subsection 4909.1 of the Uniform Fire Code is amended to read as follows:  
18

19 **4909.1 General.** Storage of calcium carbide shall not exceed fifty (50) pounds per storage  
20 location within the Fire District (see Appendix VI-D). Storage of calcium carbide inside  
21 buildings shall be in a dry, waterproof and well-ventilated area.  
22

23 Section 55. Subsection 5201.6.3 of the Uniform Fire Code is hereby repealed. Section 5201 of  
24 the Uniform Fire Code is amended by adding thereto a new subsection 5201.6.3 to read as  
25 follows:  
26

27 **5201.6.3 Unsupervised dispensing.** Dispensing at unsupervised locations shall comply with the  
28 following:

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1. The dispensing equipment system shall be provided with an emergency shutoff switch located within 75 feet (22,860 mm) of, but not less than 25 feet (7,620 mm) from, dispensers and
2. Supervision by a qualified attendant is not required for a service station which is not open to the public and which is used only by a commercial, industrial, governmental or manufacturing establishment for fueling vehicles used in connection with their business. Such stations may include card or key operated dispensers. The owner or operator of such station is accountable for the safe operation of the station and training of the users thereof. The owner or operator shall provide daily site visits, regular equipment inspection and maintenance, conspicuously posted instructions for the safe operation of dispensing equipment, and posted telephone numbers for the owner or operators. A sign, in addition to the signs required by Section 5201.8, shall be posted in a conspicuous location reading:

<p style="text-align: center;"><b>IN CASE OF FIRE, SPILL OR RELEASE</b></p> <ol style="list-style-type: none"><li>1. Use emergency pump shutoff!</li><li>2. Report the accident! Fire Department Telephone No. Facility address</li></ol>
---

Section 56. Subsection 5202.3.1 of the Uniform Fire Code is hereby repealed. Section 5202 of the Uniform Fire Code is amended by adding thereto a new subsection 5202.3.1 to read as follows:

**5202.3 Storage of Fuel.**

**5202.3.1 General.** Class I liquids shall be stored in closed containers or in tanks located underground. Class II and III-A liquids shall be stored in containers or in tanks located underground or in special enclosures in accordance with Section 5202.3.6. See also Appendix II-F.

Section 57. Subsection 5202.4 of the Uniform Fire Code is amended to read as follows:

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**5202.4 Dispensing.**

1 **5202.4.1 Aboveground tanks.** Class I (~~and Class H~~) liquids shall not be dispensed into the  
2 fuel tank of a motor vehicle from aboveground tanks. Class II and III-A liquids shall not be  
3 dispensed into the fuel tank of a motor vehicle from aboveground tanks except when such tanks  
4 are installed inside special enclosures in accordance with Section 5202.3.6. See also Appendix  
5 II-F.

6  
7 **5202.4.2 Filling of portable containers and tanks and cargo tanks.** It is unlawful to sell, offer  
8 for sale, or distribute any container for the storage and/or handling of flammable liquids, unless  
9 such container has been approved for such purpose under applicable provisions of this Code.

10 Class I, II and III-A liquids shall not be dispensed into portable containers unless such  
11 container is of approved material and construction, and having a tight closure with screwed or  
12 spring cover so designed that the contents can be dispensed into without spilling. Liquids shall  
13 not be dispensed into portable tanks.

14 Cargo tanks shall be filled at bulk plants or terminals.

15  
16 Section 58. Subsection 5202.4.3.2 of the Uniform Fire Code is amended by adding thereto a  
17 new item 4 as follows:

18 \* \* \*

19 4. A latch-open device, if used, must disengage when the nozzle is returned to the  
20 dispenser (pump).

21 Section 59. Subsection 5202.4.4 of the Uniform Fire Code is hereby repealed. Section 5202 of  
22 the Uniform Fire Code is amended by adding thereto a new subsection 5202.4.4 to read as  
23 follows:

24  
25 **5202.4.4 Supervision.** See Section 5201.6.3.

26  
27 Section 60. Subsection 5202.11.2 of the Uniform Fire Code is amended to read as follows:

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**5202.11.2 General construction.** Piers, wharves and floats where Class I, II or III-A liquid dispensers are located shall be of fire-resistive construction and shall be impervious to spills of such liquids and oils within the immediate area of the dispenser, including areas within reach of the hose and nozzle, where the hose and nozzle are used.

**EXCEPTION:** When approved by the Chief, the non-combustible surface area does not have to accommodate all nozzle locations at stations with a full time attendant or equipped with automatic hose reel take-up.

Section 61. Subsection 5202.11.4.1.2 of the Uniform Fire Code is amended to read as follows:

**5202.11.4.1.2 Location of tanks and pumps.** Tanks and pumps, other than those integral with approved dispensing devices, supplying Class I, II or III-A liquids at marine motor vehicle fuel-dispensing stations shall be located only on shore or, when approved by the Chief, on piers of solid-fill type. ~~((Approved dispensing devices with or without integral pumps are allowed located on shore, piers of solid-fill type, open piers, wharves or floating docks.))~~

Section 62. Section 5202 of the Uniform Fire Code is amended by adding thereto new subsection 5202.11.4.1.3 to read as follows:

**5202.11.4.1.3 Location of fueling operations.** Fueling of floating marine craft in the Fire District and fueling at locations other than a marine motor vehicle fuel-dispensing station is subject to permit. See Appendix VI-D for the definition of Fire District.

Section 63. Subsection 5203.6 of the Uniform Fire Code is amended to read as follows:

**5203.6 Private Fueling of Motor Vehicles.** Self-service LP-gas dispensing systems, including key, code and card lock dispensing systems, shall not be open to the public and shall be limited to the filling of permanently mounted fuel containers on LP-gas powered vehicles.

In addition to the requirements in Section 5201.6, self-service LP-gas dispensing systems shall

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bc ~~((in accordance with the following:~~

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~~1. The system shall be)) provided with an emergency shutoff switch located within 75 feet (22,860 mm) of, but not less than 25 feet (7,620 mm) from, dispensers.~~

~~((2. The owner of the dispensing facility shall ensure the safe operation of the system and the training of users.))~~

Section 64. Subsection 5204.6 of the Uniform Fire Code is amended to read as follows:

**5204.6 Private Fueling of Motor Vehicles.** Self-service CNG-dispensing systems, including key code and card lock dispensing systems, shall be limited to the filling of permanently mounted fuel containers on CNG-powered vehicles.

In addition to the requirements in Section 5201.6, self-service CNG-dispensing systems shall be ~~((in accordance with the following:~~

~~1. The system shall be)) provided with an emergency shutoff switch located within 75 feet (22,860 mm) of, but not less than 25 feet (7,620 mm) from, dispensers ~~((and~~~~

~~2. The owner of the dispensing facility shall ensure the safe operation of the system and the training of users)).~~

Section 65. Article 61 of the Uniform Fire Code is hereby repealed. The Uniform Fire Code is amended by adding thereto a new Article 61 to read as follows:

**ARTICLE 61 -- OIL BURNING EQUIPMENT**

**SECTION 6101 -- SCOPE**

Oil-burning equipment other than internal combustion engines, oil lamps and portable devices such as blow torches, melting pots and weed burners shall be in accordance with Article 61.

**SECTION 6102 -- GENERAL**

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1 The design, construction and installation of oil-burning equipment shall be in accordance with  
2 the Mechanical Code. Oil-burning equipment shall be of an approved type.

3 **SECTION 6103 -- PERMITS**

4 See Section 105.8 for permits. A permit is required to remove, abandon, place temporarily out  
5 of service or otherwise dispose of a combustible liquids tank. Such a permit may be issued  
6 without an inspection of the tank or premises as otherwise required in Section 105.4.

7  
8 **SECTION 6104 -- ELECTRICAL WIRING AND EQUIPMENT**

9 Electrical wiring and equipment used in connection with oil-burning equipment shall be  
10 installed in accordance with the Electrical Code.

11  
12 **SECTION 6105 -- FUEL OIL**

13 The fuel oil used in a burner shall be of a type approved for the burner and in accordance with  
14 the burner manufacturer's recommendations.

15  
16 **SECTION 6106 -- ABANDONMENT OF TANKS**

17 Tanks and piping serving oil-burning equipment which have been out of service for a period of  
18 one year shall be removed from the ground or abandoned in place in accordance with Section  
19 7902.1.7 of this code.

20 **SECTION 6107 -- PORTABLE UNVENTED OIL-BURNING HEATING APPLIANCES**

21 **AND UNVENTED DECORATIVE GAS LOGS AND FIREPLACES**

22 **6107.1 General.** The design, construction and use of portable unvented oil-burning heating  
23 appliances shall be in accordance with Section 6107 and other applicable provisions of this  
24 code.

25  
26 **6107.2 Equipment.** Portable unvented oil-burning heating appliances shall be listed and shall  
27 be limited to a fuel tank capacity of 2 gallons (7.6 L).  
28

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1           **EXCEPTION:** Appliances approved for temporary use during construction processes  
2           are allowed to have a greater fuel tank capacity, provided such capacity does not exceed  
3           the terms of the listing of the appliance.

4           **6107.3 Location.** The use of listed portable unvented oil-burning heating appliances shall be  
5           limited to supplemental heating in Group S, Divisions 3,4 and 5 and Group U Occupancies.

6  
7           **EXCEPTIONS:** 1. When approved by the Chief, portable unvented oil-burning heating  
8           appliances may be used in any occupancy during construction when such use is  
9           necessary for the construction and the use does not represent a hazard to life or  
10          property.

11  
12          2. Approved, unvented portable oil-fueled heaters may be used as a supplemental heat  
13          source in any Group B, F-2, M, R or U Occupancy provided that such heaters shall not  
14          be located in any sleeping room or bathroom, and shall comply with RCW 19.27A.080,  
15          19.27A.090, 19.27A.100, 19.27A.110, and 19.27A.120.

16  
17          **6107.4 Fuel.** The grade and type of fuel shall be in accordance with the listing for the  
18          appliance. Storage and handling of fuel shall be in accordance with Article 79.

19  
20          Section 66. Section 6301 of the Uniform Fire Code is amended to read as follows:

21          **SECTION 6301 -- SCOPE**

22          Refrigeration unit and system installations having a refrigerant circuit containing more than 220  
23          pounds (100 kg) of Group A1 or 30 pounds (13.6 kg) of any other group refrigerant shall be in  
24          accordance with Article 63 and the Mechanical Code. See the Mechanical Code for refrigerant  
25          group descriptions. See also Sections 8001.1.2 and 8002.

26  
27          **EXCEPTION:** The chief is authorized to exempt temporary or portable installations.  
28

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1 The provisions of this Article may be waived when the Chief has determined that such  
2 enforcement is preempted by other codes, statutes or ordinances or that, as a matter of fire and  
3 life safety, other satisfactory regulatory safeguards or satisfactory industry standards are in  
4 place. The details of any action granting such a waiver may be, but are not required to be,  
5 recorded and entered in the files of the code enforcement agency.

6 Section 67. Section 7608 of the Uniform Fire Code is amended to read as follows:

7  
8 **SECTION 7608 -- EXPLOSION CONTROL**

9 Buildings in which flammable or explosive dusts are manufactured, processed or generated  
10 outside of dust collection equipment (~~in quantities exceeding the exempt amounts in Section~~  
11 ~~8001.13~~)) shall be provided with explosion control in accordance with the Building Code.

12  
13 Section 68. Subsection 7701.3.1 of the Uniform Fire Code is hereby repealed. Section 7701 of  
14 the Uniform Fire Code is amended by adding thereto a new subsection 7701.3.1 to read as  
15 follows:

16 **7701.3.1 Required.** Permits shall be obtained:

- 17  
18 1. To possess, store, sell, or otherwise dispose of explosive or blasting agents.  
19 2. To transport explosives or blasting agents.  
20 3. To use explosives or blasting agents.  
21 4. To operate a terminal for handling explosives or blasting agents.  
22 5. To transport blasting caps or electric blasting caps on the same vehicle with explosives.

23 See Section 105.8.

24 Section 69. Subsection 7701.3.2 of the Uniform Fire Code is hereby repealed. Section 7701 of  
25 the Uniform Fire Code is amended by adding thereto a new subsection 7701.3.2 to read as  
26 follows:

27 **7701.3.2 Unsafe material or practice.** Permits required by Section 7701.3.1 of this Article shall  
28 not be issued for:

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1. Dynamite having an unsatisfactory absorbent or one that permits leakage of a liquid explosive ingredient under any conditions liable to exist during storage.
2. Nitrocellulose in a dry and uncompressed condition in quantity greater than 10 pounds net weight in one package.
3. Fulminate of mercury in a dry condition and fulminate of other metals in any condition except as a component of manufactured articles not hereinafter forbidden.
4. Explosive compositions that ignite spontaneously or undergo marked decomposition, rendering the products or their use more hazardous, when subjected for 48 consecutive hours or less to a temperature of 167° F.
5. New explosive materials until approved by DOT, except that permits may be issued to educational, governmental or industrial laboratories for instruction or research purposes.
6. Explosive materials condemned by DOT.
7. Explosives containing an ammonium salt and a chlorate.
8. The manufacture of explosives.
9. The storage of explosives for more than 24 hours.
10. The construction of Class I magazines.
11. Liquid nitroglycerine.
12. Dynamite (except gelatin dynamite) containing over 60 percent of liquid explosive ingredient.
13. Explosives not packed or marked in accordance with the requirements of the U.S. Department of Transportation.

Section 70. Subsection 7701.4 of the Uniform Fire Code is hereby repealed. Section 7701 of the Uniform Fire Code is amended by adding thereto a new subsection 7701.4 to read as follows:

**7701.4 Liability Insurance.** Before a permit is issued as required by section 7701.3.1, Item 3 liability insurance conforming to Section 108 shall be provided.

Section 71. Subsection 7701.7.1 of the Uniform Fire Code is hereby repealed. Section 7701 of

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1 the Uniform Fire Code is amended by adding thereto a new subsection 7701.7.1 to read as  
2 follows:

3 **7701.7.1 Manufacturing.** The manufacture of explosive materials is prohibited.  
4

5 Section 72. Section 7702 of the Uniform Fire Code is amended by adding thereto new  
6 subsections 7702.1.18, 7702.1.19 and 7702.1.20 respectively to read as follows:  
7

8 **7702.1.18 Prohibition.** No person shall keep or store, nor shall any permit be issued to keep or  
9 store, any explosives at any place of habitation or within 100 feet thereof.  
10

11 **7702.1.19 Quantities established by permit.** No person possessing a permit for storage of  
12 explosives at any place shall keep or store any greater amount or other kind of explosives than  
13 are authorized in such permit.  
14

15 **7702.1.20 Supervision.** The Chief may require that any operations permitted under the  
16 provisions of Section 7701.3.1, items 2 and 3 shall be supervised at any or all times by  
17 employees of the Fire Department designated by the Chief to see that all safety and fire  
18 regulations are observed. Where, in the opinion of the Chief, no undue hazard to life or  
19 property exists, the required supervision may be waived.  
20

21 Section 73. Subsection 7801.3 of the Uniform Fire Code is amended to read as follows:  
22

23 **Section 7801.3 Permits.** The Chief shall have authority to issue and condition permits required  
24 by this article.

25 Permits shall be obtained to:

- 26 1. Store fireworks in any amount of any type.
- 27 2. Conduct a public display of fireworks.
- 28 3. Discharge special fireworks.
4. Transport any fireworks.

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EXCEPTION: Transportation by a public carrier to a licensee.

1 5. Use or discharge fireworks inside a structure.

2 6. Use or discharge fireworks for ceremonial purposes; provided that there shall be no fee  
3 for such permit.

4 All permits required by this article shall be issued by the Chief. As a condition of any permit,  
5 the Chief may specify additional safeguards as necessary to provide for the public safety.

6  
7 No person under eighteen years of age may apply for or receive a permit under this article.

8  
9 An application for a permit shall be made in writing to the Chief at least 30 days in advance.

10 After a permit is granted, transportation, storage, discharge, sale, possession, use and  
11 distribution of fireworks shall be lawful only for the purpose stated on the permit. No permit  
12 granted hereunder shall be transferable.

13  
14 The Chief may issue permits for the transportation and storage of fireworks in bulk quantities  
15 under United States Department of Transportation classifications, describing such quantity  
16 limitations, duration and conditions of storage or transport as the Chief shall deem necessary to  
17 provide for the public safety.

18  
19 No permit will be issued for the manufacture of fireworks.

20 Section 74. Subsection 7801.3.1.1 of the Uniform Fire Code is hereby repealed. Section 7801  
21 of the Uniform Fire Code is amended by adding thereto a new subsection 7801.3.1.1 to read as  
22 follows:

23 **Section 7801.3.1.1 Manufacturing.** The manufacture of fireworks and pyrotechnic special effects  
24 material is prohibited.

25  
26 Section 75. Subsection 7801.3.1.2 of the Uniform Fire Code is hereby repealed. Section 7801  
27 of the Uniform Fire Code is amended by adding thereto a new subsection 7801.3.1.2 to read as  
28 follows:

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1 **Section 7801.3.1.2 Displays.** Permits are required to conduct a fireworks display. See Section  
2 105, Permit f.2. Permit application shall be made not less than 30 days prior to the scheduled  
3 date of the display.

4 Fireworks displays shall be in accordance with this Article. Only Class B, Class C, common and  
5 special fireworks are allowed to be used. When special fireworks are used, see Article 77. The  
6 denial by the Fire Chief of a permit for the public display of fireworks may be appealed to the  
7 City Council.

8  
9 Section 76. Subsections 7802.1 through 7802.4.4.1 of the Uniform Fire Code are hereby  
10 repealed. Section 7802 of the Uniform Fire Code is amended by adding thereto new  
11 subsections 7802.1, 7802.1.1, 7802.2, 7802.3, 7802.4, 7802.4.1, 7802.4.2, 7802.4.3, 7802.4.3.1,  
12 7802.4.4 and 7802.4.4.1 respectively to read as follows:

13  
14 **SECTION 7802 -- FIREWORKS**

15 **7802.1 General.** Storage, use and handling of fireworks shall be in accordance with Section  
16 7802. The sale, possession, use or discharge of any firework in the City of Seattle is prohibited  
17 except where authorized by Fire Department permit or exempted under this Section.

18 **EXCEPTIONS:** 1. The use of fireworks by railroads or other transportation agencies for  
19 signaling or illumination.

20 2. The sale or use of blank cartridges or fireworks when approved by the Chief for theatrics,  
21 signaling or ceremonial purposes.

22 3. The use of fireworks by the United States Armed Forces.

23 **7802.1.1 Authority.** The Chief and the Chief of the Seattle Police Department have authority  
24 to enforce the provisions of this article.

25 **7802.2 Seizure of Fireworks.** The Chief is authorized to seize, take, remove or cause to be  
26 removed at the expense of the owner, all fireworks offered or exposed for sale, stored,  
27 possessed or used in violation of this article.

28 Any person whose fireworks are seized under the provisions of this article, may within 10 days

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1 after such seizure, petition the Chief in writing to return the fireworks seized upon the grounds  
2 that such fireworks were illegally or erroneously seized. Such petitions shall be considered by  
3 the Chief within 15 days after filing and an oral hearing granted to the petitioner if requested.  
4 The decision of the Chief shall be provided in writing to the petitioner. The Chief may order  
5 the fireworks seized under this article disposed of, or returned to the petitioner if illegally or  
6 erroneously seized, providing such return is in compliance with state law or this article.

7 The determination of the Chief is final, unless within 60 days an action is commenced in the  
8 Municipal Court of the City of Seattle for the recovery of fireworks seized by the Chief.

9  
10  
11 If the fireworks are not returned to the petitioner or destroyed, the Chief may sell all  
12 confiscated common fireworks and special fireworks that are legal for use and possession under  
13 State law and this article to wholesalers licensed by the State of Washington. Sales shall be  
14 made by public auction after publishing a notice of the date, place and time of the auction in a  
15 newspaper of general circulation within the City. Such note of public auction shall be made at  
16 least 14 days prior to the date of the auction. The proceeds of any sale of seized fireworks  
17 under this article, shall be deposited in a special fund which shall be used for the sole purpose  
18 of educating the public on firework safety.

19 Fireworks that are illegal for use and possession in this state shall be removed from the city and  
20 destroyed.

21 **Section 7802.3 Prohibition.** The possession, storage, handling and use of fireworks without a  
22 permit is prohibited.

23  
24 The manufacture of fireworks and pyrotechnic special effects material is prohibited.

25  
26 The discharge or possession of any fireworks in public parks is prohibited, unless approved by  
27 the Director of the Parks and Recreation Department and the Chief.

28

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1 The discharge of fireworks inside or upon a structure is prohibited, unless a permit has been  
2 obtained from the Chief.

3 The discharge of fireworks in a manner which constitutes a hazard to persons or property is  
4 prohibited.

5  
6 The discharging or throwing of ignited fireworks from vehicles or buildings is prohibited.

7  
8 The discharging or throwing of ignited fireworks from watercraft or vessels is prohibited, unless  
9 a permit has been obtained from the Chief.

10  
11  
12 Fireworks shall not be transported in or upon vehicles used for mass transportation such as  
13 buses or trains.

14  
15 **Section 7802.4 Displays.**

16 **Section 7802.4.1 General.** Fireworks displays shall be in accordance with Section 7802.4. Only  
17 Class C (Explosives, Division 1.4--see Appendix VI-E), common and special fireworks  
18 (Explosives, Division 1.2 or 1.3) are allowed to be used. When special fireworks (Explosives,  
19 Division 1.2 or 1.3--see Appendix VI-E) are used, see Section 7703. Only permitted fireworks  
20 are authorized for use. The denial by the Fire Chief of a permit for the public display of  
21 fireworks may be appealed to the City Council.

22 **Section 7802.4.2 Pyrotechnic Operator.** Every public display of fireworks shall be handled by a  
23 competent operator approved by the Chief and shall be of such character, and so located,  
24 discharged or fired, that, in the opinion of the Chief, after proper investigation, it will not  
25 constitute a hazard to property or endanger any person. A State of Washington Pyrotechnics  
26 License is required for operators of public displays of fireworks.

27  
28 Display operators and assistants shall be 18 years of age or older. The operator will ensure

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1 that no person under the age of 18 years is allowed within 200 feet of the firing and storage  
2 site.

3 **Section 7802.4.3 Bond.** A bond or certificate of insurance must be furnished to the Chief  
4 before a permit is issued. The bond shall be in the minimum amount of Two Million Dollars  
5 (\$2,000,000) and shall be conditioned upon the applicant's payment of all damages to persons  
6 and property resulting from or caused by such public display of fireworks, or by any negligence  
7 on the part of the applicant or its agents, servants, employees or subcontractors in the  
8 presentation of the display. The certificate of insurance shall evidence a comprehensive general  
9 liability (including automobile coverage) insurance policy providing limits of (Two Million  
10 Dollars (\$2,000,000)) combined single limit, per occurrence and annual aggregate, no  
11 deductible, and naming the City of Seattle as an additional insured. The insurance policy shall  
12 also meet the requirements of Section 108 of the Seattle Fire Code.

13  
14 **Section 7802.4.3.1 Transportation and Storage.** All fireworks shall be stored and transported  
15 within the City in accordance with the requirements of NFPA 1123 and NFPA 1124, as  
16 applicable to outdoor displays of fireworks.

17  
18 As soon as the fireworks have been delivered to the display site, they shall be attended and  
19 shall remain dry.

20  
21 All fireworks at the firing site must be stored in ready boxes (substantially constructed wood  
22 magazines). During the display, the magazines must be 25 feet upwind (relation to firing time)  
23 from the nearest mortar. Magazine lids must open in the opposite direction to the firing. All  
24 ready boxes are to be protected by a flameproof water repellent canvas cover until emptied.

25  
26 The shell storage area shall be located at a minimum distance of not less than 25 feet from the  
27 discharge site.

28 During the display, shells shall be stored upwind from the discharge site. If the wind shifts

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1 during the display, the shell storage area shall be relocated to be upwind from the discharge  
2 site.

3 **Section 7802.4.4 Mortars for aerial shell displays.**

4 **Section 7802.4.4.1 Site Criteria.** All dry grass, weeds and other combustible waste matter  
5 within 50 feet of the firing site shall be removed.

6  
7 When the display is fired from a barge, such barge shall be of non-combustible construction or  
8 have a non-combustible surface.

9  
10 The firing and storage site shall be located not less than 200 feet from any building, tent,  
11 canopy or membrane structure.

12  
13 No boats shall be allowed within 200 feet of the firing or storage site.

14  
15 When the display is fired from a barge or vessel, a security area shall be established around the  
16 barge to prevent boats from entering the fallout area. No boats shall be allowed within 200  
17 feet of the firing or storage site. A boat shall be on standby to remove personnel from the  
18 barge or water in an emergency. All personnel aboard the barge shall have approved flotation  
19 devices. Additional fire extinguishers, rated 2A minimum, shall be on the barge and so spaced  
20 that an extinguisher shall be available within 30 feet at all times.

21 Section 77. Subsection 7802.4.4.3 of the Uniform Fire Code is hereby repealed. Section 7802  
22 of the Uniform Fire Code is amended by adding thereto a new subsection 7802.4.4.3 to read as  
23 follows:

24  
25 **Section 7802.4.4.3 Inspection.** All shells shall be inspected upon delivery to the display site by  
26 the display operator. Any shells having tears, leaks, broken fuses, or showing signs of having  
27 been wet shall be set aside and shall not be fired. After the display, any such shells shall be  
28 either returned to the supplier or destroyed according to the supplier's instructions.

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**EXCEPTION:** Minor repairs to fuses shall be allowed. Also, for electrically ignited displays, attachment of electric matches and other similar tasks shall be permitted.

Section 78. Subsections 7802.4.9.2 and 7802.4.9.3 of the Uniform Fire Code are hereby repealed. Section 7802 of the Uniform Fire Code is amended by adding thereto new subsections 7802.4.9.2 and 7802.4.9.3 respectively to read as follows:

**Section 7802.4.9.2 Fire Protection.** The operator shall provide fire protection at the site as required by the Chief.

**Section 7802.4.9.3 Monitors.** The operator shall provide sufficient personnel to ensure that no unauthorized persons are allowed within 200 feet of the firing and storage site. This requirement shall be in effect from one-half hour prior to the arrival of fireworks until all fireworks debris, equipment and fireworks have been removed from the site.

Section 79. Subsections 7802.4.9.5, 7802.4.9.6 and 7802.4.9.7 of the Uniform Fire Code are hereby repealed. Section 7802 of the Uniform Fire Code is amended by adding thereto new subsections 7802.4.9.5, 7802.4.9.6 and 7802.4.9.7 respectively to read as follows:

**Section 7802.4.9.5 Display discontinued.** If, in the opinion of the Chief or his authorized representative, lack of crowd control should pose a danger, the display will be immediately discontinued until such time as the situation is corrected.

If at any time high winds or unusually wet weather prevail such that, in the opinion of the Chief, his authorized representative or the display operator, a definite danger exists, the public display shall be postponed until weather conditions improve to permit safe discharge of fireworks.

Light snow or mist need not cause cancellation of the display; however, all materials used in the display shall be protected from the weather until immediately prior to use.

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1 **Section 7802.4.9.6 Illumination.** Display operators and assistants shall use only flashlights or  
2 approved electrical lighting for artificial illumination.

3 **Section 7802.4.9.7 Smoking and open flames.** No smoking or open flames shall be allowed  
4 within 50 feet of the firing or storage area as long as shells are present. Signs to this effect  
5 shall be conspicuously posted.

6  
7 Section 80. Subsections 7802.4.9.8.9 and 7802.4.9.8.10 of the Uniform Fire Code are hereby  
8 repealed. Section 7802 of the Uniform Fire Code is amended by adding thereto new  
9 subsections 7802.4.9.8.9 and 7802.4.9.8.10 respectively to read as follows:

10  
11 **Section 7802.4.9.8.9 Defective aerial shells.** If an aerial shell fails to ignite in a mortar, the  
12 mortar shall be left alone for a minimum of 15 minutes, then carefully flooded with water.  
13 Immediately following the display, and not less than 5 minutes after flooding the mortar, the  
14 mortar shall be emptied into a bucket of water and properly disposed of. The supplier shall be  
15 contacted as soon as possible for proper disposal instructions.

16  
17 Operators shall not attempt to repair a damaged shell nor shall they attempt to dismantle a dry  
18 shell. In all such cases, the supplier shall be contacted as soon as possible for proper disposal  
19 instructions.

20 Operators shall not dry a wet shell, lance, or pot for reuse.

21  
22 **Section 7802.4.9.8.10 Range inspection.** The entire firing range shall be inspected immediately  
23 following a display and prior to allowing public access for the purpose of locating unexploded  
24 aerial shells. Such shells shall not be handled within 15 minutes of their firing. Such shells  
25 shall then be doused with water, allowed to stand for not less than 5 minutes and placed in a  
26 bucket of water.

27  
28 When the firing range cannot be thoroughly inspected due to darkness, the site shall be  
reinspected the following morning.

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1 Any fireworks remaining unfired after the display shall be immediately disposed of or removed  
2 from the City in a safe manner.

3 The debris from discharged fireworks shall be properly discarded.

4  
5 Section 81. Subsection 7901.1.1 of the Uniform Fire Code is amended to read as follows:  
6

7 **7901.1.1 General.** Storage, use, dispensing, mixing and handling of flammable and combustible  
8 liquids shall be in accordance with Article 79.

9 **EXCEPTIONS:** 1. ~~((As otherwise provided in other laws or regulations))~~ The  
10 provisions of this Article may be waived when the Chief has determined that such  
11 enforcement is preempted by other codes, statutes or ordinances or that, as a matter of  
12 fire and life safety, other satisfactory regulatory safeguards or satisfactory industry  
13 standards are in place. The details of any action granting such a waiver may be, but are  
14 not required to be, recorded and entered in the files of the code enforcement agency.

15 2. Transportation of flammable and combustible liquids when in accordance with DOT  
16 regulations on file with and approved by DOT.

17 3. Alcoholic beverages in retail sales or storage uses, provided the liquids are packaged  
18 in individual containers not exceeding 4 liters.

19 4. Medicines, foodstuffs and cosmetics containing not more than 50 percent by volume  
20 of water-miscible liquids and with the remainder of the solution not being flammable, in  
21 retail sales or storage uses when packaged in individual containers not exceeding 4  
22 liters.

23 5. Storage and use of fuel-oil tanks and containers connected to oil-burning equipment.  
Such storage and use shall be in accordance with Article 61 and the Mechanical Code.

24 6. Refrigerant liquids and refrigerant oils within an approved closed-cycle refrigeration  
25 system complying with the Mechanical Code. See Article 63.

26 7. Storage and display of aerosol products. See Article 88.

27 8. Materials which are solid at 100-F. (37.8-C.) or above.

28 9. Storage of liquids that have no fire point when tested in accordance with U.F.C.  
Standard 2-6.

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10. Liquids without flash points that can be flammable under some conditions, such as certain halogenated hydrocarbons and mixtures containing halogenated hydrocarbons.

Section 82. Subsection 7901.3.1 of the Uniform Fire Code is hereby repealed. Section 7901 of the Uniform Fire Code is amended by adding thereto a new subsection 7901.3.1 to read as follows:

**7901.3.1 Permits.** See also Section 105.8, Permits f.3.1 through f.3.10. A permit is required to:

1. To store, handle or use Class I liquids in excess of 5 gallons in a building or in excess of 10 gallons outside of any building (including heated liquids of higher flash point, such as asphalt).
2. To store, handle or use Class II and III-A liquids in excess of 25 gallons inside a building or in excess of 60 gallons outside of any building, except for fuel oil used in connection with oil-burning equipment.
3. To store, handle or use Class III-B liquids in excess of 1,000 gallons.
4. To install, alter or operate equipment in connection with the storage, handling, use or sale of flammable or combustible liquids regulated under Article 79.
5. To install, alter, remove, abandon, place temporarily out of service or otherwise dispose of any flammable or combustible liquid tank. See Article 79.
6. To change the type of contents stored in any flammable or combustible liquid tank to a material other than that for which the tank was designed and constructed.
7. Operation of an automotive self-service station or marine service station. See Article 52.
8. To operate mobile or portable refueling equipment, including marine craft.
9. To remove Class I or Class II liquids from an underground storage tank used for fueling motor vehicles by any means other than the approved, stationary on-site pumps normally used for dispensing purposes.
10. To operate tank vehicles in which flammable and combustible liquids are transported.

**EXCEPTIONS:**

1. The storage or use of liquids in the fuel tanks of motor vehicles, aircraft, motorboats, mobile power plants, mobile heating plants or portable motor boat tanks of six (6)

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gallons or less individual capacity and twelve (12) gallons or less aggregate capacity.

2. Dispensing flammable or combustible liquids from underground tanks for motor vehicle fueling at full-service stations open to the public or at private stations using approved dispensing equipment.
3. Transportation of liquids in factory sealed containers or in tanks excepted in Exception #1.
4. The storage or use of paints, oils, varnishes, or similar mixtures when stored for maintenance, painting or similar purposes in quantities permitted by this Code for a period of not more than 30 days.

Section 83. Subsection 7901.7.1 of the Uniform Fire Code is amended to read as follows:

**7901.7.1 General.** Flammable and combustible liquids and petroleum waste products shall not be discharged or released on sidewalks, streets, highways, drainage canals, ditches, storm drains, sewers, flood-control channels, lakes, rivers, tidal waterways or the ground.

In the event of a spill or accidental release of a flammable or combustible liquid, inside or outside of buildings, that could present a fire or life safety hazard, the owner or occupant shall immediately report such spill or release to the Fire Department. Unauthorized discharge or release of such products shall be handled as set forth in Section 8001.5.2.

**EXCEPTIONS:** 1. Materials and products intended for use in weed abatement, pest control, erosion control, paving and similar applications when applied in accordance with the manufacturer's instructions, label directions and nationally recognized standards.

2. Materials released in accordance with federal, state or local government regulations or permits of the jurisdictional air quality management board with a national pollutant discharge elimination system permit, with waste discharge requirements established by the jurisdictional water quality control board, or with local sewer pretreatment requirements for publicly owned treatment works.

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1 Section 84. Subsection 7902.1.8.1.3 of the Uniform Fire Code is hereby repealed. Section 7902  
2 of the Uniform Fire Code is amended by adding thereto a new subsection 7902.1.8.1.3 to read  
3 as follows:

4 **7902.1.8.1.3 Plastic containers.** Plastic containers shall not be used for the storage of Class I, II  
5 or III liquids unless stored in approved flammable liquid cabinets, liquid storage rooms or liquid  
6 storage warehouses. See Sections 7902.5.10.2.2, 7902.5.11 and 7902.5.12.

7  
8 **EXCEPTIONS:** 1. In sprinklered buildings, an aggregate quantity of 120 gallons of  
9 water-miscible Class I-B and I-C liquids is allowed in nonmetallic containers, each  
10 having a capacity of 16 ounces or less.

11 2. Class II and III combustible consumer products when stored less than 5 feet high; or  
12 when such storage is confined to box bins within racks and individually protected by  
13 automatic sprinklers when stored higher than 5 feet.

14  
15 Section 85. Section 7902 of the Uniform Fire Code is amended by adding thereto a new  
16 subsection 7902.1.8.1.4 to read as follows:

17 **7902.1.8.1.4 Approved containers.** It is unlawful to sell, offer for sale, or distribute any  
18 container for the storage and/or handling of flammable liquids, unless such container has been  
19 approved for such purpose under applicable provisions of this Code.

20  
21 Section 86. Section 7902 of the Uniform Fire Code is amended by adding thereto a new  
22 subsection 7902.1.10.8.5 to read as follows:

23 **7902.1.10.8.5 Fire protection.**

24 **7902.1.10.8.5.1 General.** Minimum requirements for each above-ground tank or group of tanks  
25 for storage shall be in accordance with the following:

26 **Class I liquids.** Aboveground tanks used for the storage of Class I liquids shall be protected by  
27 an approved automatic foam fire protection system.

28 **Class II liquids.** Aboveground tanks used for the storage of Class II liquids shall be protected  
by an approved automatic water spray system.

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**EXCEPTION:** Portable tanks and stationary tanks up to 660 gallon capacity provided with portable fire extinguishers and adequate water supply.

**Class III liquids.** Aboveground tanks used for the storage of Class III liquids shall be protected in accordance with Table 7902.2-A.

Section 87. Subsection 7902.5.9.4.2 of the Uniform Fire Code is hereby repealed.

Section 88. Subsection 7902.5.10.2.2 of the Uniform Fire Code is hereby repealed. Section 7902 of the Uniform Fire Code is amended by adding thereto a new subsection 7902.5.10.2.2 to read as follows:

**7902.5.10.2.2 Container type.** Containers for Class I liquids shall be metal.

**EXCEPTIONS:** 1. In sprinklered buildings an aggregate quantity of 120 gallons of water-miscible Class I-B and I-C liquids is allowed in nonmetallic containers, each having a capacity of 16 ounces or less.

2. Non-metallic containers may be used for Class II and III combustible consumer products when stored less than 5 feet high; or when such storage is confined to box bins within racks and individually protected by automatic sprinklers when stored higher than 5 feet.

Section 89. Subsection 7902.5.11.3 is amended to read as follows:

**7902.5.11.3 Spill control, drainage control and secondary containment.** Liquid storage rooms shall be provided with spill control, drainage control and secondary containment in accordance with Section 7901.8.

See Section 7902.5.11.5.1 for special fire protection requirements if secondary containment of nonwater-miscible flammable or combustible liquids is to be achieved through the use of recessed floors or liquid-tight raised sills allowed under Section 7901.8.4.

**EXCEPTIONS:** 1. Drainage control is not required for storage rooms less than or equal to 150 sq. ft. in area.

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1                   2. Drainage control is not required for storage rooms when rooms are used exclusively  
2                   for the storage of water-miscible flammable liquids.

3 Section 90. Subsection 7902.5.11.5.1 of the Uniform Fire Code is amended to read as follows:  
4

5 **7902.5.11.5.1 Fire-extinguishing systems.** Liquid storage rooms shall be protected by automatic  
6 sprinkler systems installed in accordance with the Building Code (see U.B.C. Standard 701-1) and  
7 Table 7902.5-F, 7902.5-G, 7902.5-H, 7902.5-I, 7902.5-J. In-rack sprinklers shall also comply with  
8 U.F.C. Standard 81-2.

9 ~~((Automatic foam water systems and automatic aqueous film forming foam (AFFF) water~~  
10 ~~sprinkler systems may be used only when approved by the chief.)) If secondary containment of  
11 non-water miscible flammable or combustible liquids is achieved through the use of recessed  
12 floors or liquid-tight raised sills as allowed for in Section 7901.8.4, an automatic-foam system  
13 shall be used and must be approved by the Chief. In other circumstances, automatic-foam  
14 systems may be used only when approved by the Chief.~~

15  
16 Section 91. Subsection 7902.5.12.3 of the Uniform Fire Code is hereby repealed. Section 7902  
17 of the Uniform Fire Code is amended by adding thereto a new subsection 7902.5.12.3 to read  
18 as follows:

19 **7902.5.12.3 Liquid Storage Warehouses - spill control, drainage control and secondary**  
20 **containment.** See Section 7902.5.11.5.1 for special fire protection requirements if secondary  
21 containment of nonwater-miscible flammable or combustible liquids is to be achieved through  
22 the use of recessed floors or liquid-tight raised sills allowed under Section 7901.8.4.

23  
24 Section 92. Subsection 7902.5.12.5.1 of the Uniform Fire Code is hereby repealed. Section  
25 7902 of the Uniform Fire Code is amended by adding thereto a new subsection 7902.5.12.5.1 to  
26 read as follows:

27  
28 **7902.5.12.5.1 Liquid storage warehouses-fire protection.** Liquid storage warehouses shall be  
protected by automatic sprinkler systems installed in accordance with the Building Code (see

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1 U.B.C. Standard 9-1) and Table 7902.5-F, 7902.5-G, 7902.5-H, 7902.5-I, 7902.5-J. In-rack  
2 sprinklers shall also comply with U.F.C. Standard 81-2.

3 Automatic-foam systems may only be used when approved by the Chief and shall be used if  
4 secondary containment of non-water miscible flammable or combustible liquids is achieved  
5 through the use of recessed floors or liquid-tight raised sills as allowed for in Section 7901.8.4.  
6

7 Section 93. Section 7903 of the Uniform Fire Code is amended by adding thereto a new  
8 subsection 7903.4 to read as follows:

9  
10 **7903.4 SOLVENT DISTILLATION UNITS**

11  
12 **7903.4.1 Scope.** This section shall apply to solvent distillation units used to recycle Class I, II,  
13 or III-A liquids.

- 14 **EXCEPTIONS:** 1. Solvent distillation units installed in dry-cleaning plants in  
15 accordance with Section 3603.10.  
16 2. Solvent distillation units used in continuous through-put industrial processes where  
17 the source of heat is remotely supplied using steam, hot water, oil or other heat-transfer  
18 fluids, the temperature of which is below the auto-ignition point of the solvent(s).  
19 3. Solvent distillation units which are approved by the Chief for research, testing and  
20 experimental processes.

21 Class I, II, or III-A liquids also classified as unstable (reactive) shall not be processed in solvent  
22 distillation units.

23  
24 **EXCEPTION:** Appliances listed for the distillation of unstable (reactive) solvents.  
25

26 **7903.4.2 General.** Solvent distillation units shall comply with the following operating  
27 requirements:

- 28 1. Solvent distillation units designed to process flammable liquids shall be listed for use in  
Class I, Division 1 or 2 locations in accordance with Table 7901.4-A. Solvent distillation

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1 units designed to process combustible liquids shall be listed in accordance with the  
2 Electrical Code.

- 3 2. A means to automatically interrupt distillation and prevent collection containers and  
4 portable tanks from overfilling shall be provided.
- 5 3. Safety limit controls which shut off the unit in the event of a malfunction that increases  
6 the risk of fire or explosion shall be provided.
- 7 4. Distilled liquids shall be discharged at temperatures not to exceed 10°F below the  
8 flashpoint and not over 140°F.
- 9 5. The maximum temperature of the unit distillation chamber shall not exceed the auto-  
10 ignition temperature of the liquid being distilled.

11 **EXCEPTION:** Solvent distillation units installed prior to the effective date of this code which  
12 do not meet all of the technical requirements set forth in this section may be approved by the  
13 Chief when installed in Group H, Division 2 occupancies.

14 **7903.4.3 Manufacturer's installation instructions.** An installation, maintenance and operating  
15 instruction manual shall be provided. The manual shall identify the liquids for which the unit  
16 has been listed for distillation purposes along with each liquid's flash point and auto-ignition  
17 temperature. For units with adjustable controls, the manual shall include directions for setting  
18 the heater temperature for each liquid to be distilled.

19  
20 **7903.4.4 Location.**

21 **7903.4.4.1 Inside Locations.** Solvent distillation units using quantities of flammable or  
22 combustible liquids exceeding the exempt amount for a Class I-A flammable liquid in closed use  
23 in accordance with Table 7903.2-B shall be installed in rooms or areas conforming to the  
24 Building Code requirements for Group H, Division 2 Occupancies.

25  
26 Solvent distillation units installed prior to the effective date of this code which do not meet the  
27 technical requirements set forth in Section 7903.4.2 may be approved by the Chief when  
28 installed in Group H, Division 2 occupancies.

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1 **7903.4.4.2 Outdoor Locations.** Solvent distillation units installed outside of buildings shall be  
2 located a minimum of 15 feet from public ways, property lines, combustible construction and  
3 exits and shall comply with all of the following:

- 4 1. The aggregate quantity of flammable and combustible liquids, including feed stock and  
5 product shall not exceed 100 gallons.  
6 2. Spill control is required in accordance with Section 7901.8.  
7 3. An attendant is required while the unit is in operation.  
8 4. The safeguards of Sections 7903.4.2 through 7903.4.10 shall apply.  
9 5. The unit shall be completely empty when unattended or shut down and the area secured  
10 by a 6 foot high fence or other approved security.

11 **7903.4.5 Liquid-collection vessels.** Distilled liquids from solvent distillation units shall be  
12 collected in containers and portable tanks in accordance with the appliance's listing and Section  
13 7902.

14 **7903.4.6 Grounding and bonding.** Solvent distillation units shall be grounded and bonded in  
15 accordance with manufacturer's instruction and Section 7901.

16 **7903.4.7 Storage of liquids.** Distilled liquids and liquids awaiting distillation shall be stored in  
17 accordance with Section 7902.

18 **7903.4.8 Storage of residue.** Hazardous residue from the distillation process shall be stored in  
19 accordance with Article 80.

20 **7903.4.9 Portable fire extinguishers.** Approved portable fire extinguishers shall be provided in  
21 accordance with U.F.C. Standard 10-1, except as specified elsewhere in Article 79.

22 **7903.4.9.1 Size and location.** At least one portable fire extinguisher having a rating of not less  
23 than 40B shall be located not less than 10 feet or more than 30 feet from any solvent  
24 distillation unit.  
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Section 94. Subsection 8001.1.3 is amended to read as follows:

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2 **8001.1.3 Application.** Section 8001 shall apply to all hazardous materials, including those  
3 materials regulated elsewhere in this code, except that when specific requirements are provided  
4 in other articles, those specific requirements shall apply.

5  
6 When a material has multiple hazards, all hazards shall be addressed.

7  
8 The provisions of ~~((Article 80 related to health hazards as classified in Section 8002 are))~~ this  
9 Article may be waived when the Chief has determined that such enforcement is preempted by  
10 other codes, statutes or ordinances or that, as a matter of fire and life safety, other satisfactory  
11 regulatory standards or satisfactory industry standards are in place. The details of any action  
12 granting such a waiver ~~((shall be))~~ may be, but are not required to be, recorded and entered in  
13 the files of the code enforcement agency.

14  
15 **POINT OF INFORMATION:**

16 The provisions relating to the storage and use of radioactive materials  
17 are waived and regulation of radioactive materials is deferred to the  
18 Washington State Department of Health, except that a no-fee permit,  
19 inventory statement and signs shall be provided as required by the Chief.

20 Section 95. Section 8001 of the Uniform Fire Code is amended by adding thereto a new  
21 subsection 8001.1.6 to read as follows:

22 **8001.1.6 Alternate materials and methods.** In particular installations, the provisions of Article  
23 80 may be altered in accordance with Section 103.1.2 at the discretion of the Chief after  
24 consideration of the special features such as topographical conditions, barricades, walls,  
25 adequacy of building exits, nature of occupancies, proximity to buildings or adjoining property  
26 and the character of materials to be stored, nature of process, degree of private fire protection  
27 to be provided and the adequacy of facilities of the Fire Department to cope with hazardous  
28 material fires and releases.

Section 96. Section 8001 of the Uniform Fire Code is amended by adding thereto definitions to

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subsection 8001.2.2 to read as follows:

\* \* \*

**EMERGENCY POWER** is current supply such that in the event of failure of the normal supply to, or within the building or buildings concerned, power will be available within the time required for the application, but not to exceed 10 seconds. [National Electric Code Section 700-12]

\* \* \*

**STANDBY POWER** is current supply such that in the event of failure of the normal supply to, or within the building or buildings concerned, power will be available within the time required for the application, but not to exceed 60 seconds. [National Electric Code Section 701-11]

Section 97. Subsection 8001.3.2 of the Uniform Fire Code is hereby repealed. Section 8001 of the Uniform Fire Code is amended by adding thereto a new subsection 8001.3.2 to read as follows:

**8001.3.2 Hazardous materials management plan.** When required by the Chief, each application for a permit pursuant to Article 80 shall include a Hazardous Materials Management Plan (HMMP) in accordance with requirements stipulated by the Chief. See Appendix II-E.

Section 98. Subsection 8001.3.3 of the Uniform Fire Code is hereby repealed. Section 8001 of the Uniform Fire Code is amended by adding thereto a new subsection 8001.3.3 to read as follows:

**8001.3.3 Hazardous materials inventory statement.** When required by the Chief, each application for a permit pursuant to Article 80 shall include a Hazardous Materials Inventory Statement (HMIS) in accordance with requirements stipulated by the Chief.

Section 99. Subsection 8001.4.3.3 of the Uniform Fire Code is amended to read as follows:

**8001.4.3.3 Additional regulations for supply piping for health hazard materials.** Supply piping

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1 and tubing for gases and liquids having a health hazard ranking of 3 or 4 in accordance with  
2 U.F.C. Standard 79-3 shall also be in accordance with the following:

3 1. Piping and tubing utilized for the transmission of highly toxic or toxic material shall have  
4 welded or brazed connections throughout unless an exhausted enclosure is provided if the  
5 material is a gas, or the piping is provided with a receptor for containment if the  
6 material is a liquid,

7 **EXCEPTION:** Nonmetallic piping with approved connections.

8 2. Piping and tubing shall not be located within exit corridors, within any portion of an exit  
9 required to be enclosed in fire-resistive construction, or above areas not classified as Group H  
10 Occupancies,

11 **EXCEPTION:** Piping and tubing within the space defined by the walls of exit corridors  
12 and floor or roof above or in concealed space above other occupancies when installed in  
13 accordance with the Building Code as required for Group H, Division 6 Occupancies.

14 See U.B.C. Section 307.11.6.2.

15 3. Where gases or liquids are carried in pressurized piping above 15 psig (103.4 kPa), excess  
16 flow control shall be provided. Where the piping originates from within a hazardous material  
17 storage room or area, the excess flow control shall be located within the storage room or area.  
18 Where the piping originates from a bulk source, the excess flow control shall be located as  
19 close to the bulk source as practical,

20 **EXCEPTION:** Where excess flow control is not appropriate according to nationally  
21 recognized standards of good practice.

22 and

23 4. Readily accessible manual or automatic remotely activated fail-safe emergency shutoff valves  
24 shall be installed on supply piping and tubing at the following locations:

25 4.1 The point of use, and

26 4.2 The tank, cylinder or bulk source.

27  
28 Section 100. Subsection 8001.4.5.1 of the Uniform Fire Code is amended to read as follows:

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**8001.4.5.1 Underground storage tanks.** Underground storage tanks used for the storage of hazardous materials shall be:

1. Properly installed according to industry standards.
2. Equipped with devices that prevent spills and over-fills.
3. Protected (including piping) from corrosion.
4. When required by state and federal regulations,
  - a. equipped (including piping) with leak detection and,
  - b. provided with secondary containment (see also Article 79 of this Code).

**POINT OF INFORMATION:**

The Chief may defer regulation of underground storage tank installations to the Washington State Department of Ecology.

Section 101. The first paragraph of subsection 8001.5.1 of the Uniform Fire Code is amended to read as follows:

**8001.5.1 General.** Hazardous materials shall not be released into a sewer, storm drain, ditch, drainage canal, lake, river or tidal waterway, or upon the ground, sidewalk, street, highway or into the atmosphere.

In the event of a spill or accidental release of a hazardous material, inside or outside of buildings, that could present a fire or life safety hazard, the owner or occupant shall immediately report such a spill or release to the Fire Department.

**EXCEPTIONS:** 1. Pesticide products and materials intended for use in weed abatement, erosion control, soil amendment or similar applications when applied in accordance with the manufacturer's instructions, label directions and in accordance with nationally recognized standards.

2. Materials released in accordance with federal, state or local government regulations or permits of the jurisdictional air quality management board with a national pollutant

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1 discharge elimination system permit, with waste discharge requirements established by  
2 the jurisdictional water quality control board, or with local sewer pretreatment  
3 requirements for publicly owned treatment works.

4 Section 102. Subsection 8001.5.2.2 of the Uniform Fire Code is hereby repealed. Section 8001  
5 of the Uniform Fire Code is amended by adding thereto a new subsection 8001.5.2.2 to read as  
6 follows:

7  
8 **8001.5.2.2 Notification.** The Chief shall be immediately notified in the event of an  
9 unauthorized discharge of a hazardous material.

10  
11 Section 103. Subsection 8001.9.1.2 of the Uniform Fire Code is amended to read as follows:

12  
13 **8001.9.1.2 Fire department liaison.** When required by the Chief, ((R)) responsible persons  
14 shall be designated and trained to be liaison personnel for the Fire Department. These persons  
15 shall aid the Fire Department in pre-planning emergency responses and identification of the  
16 locations where hazardous materials are located and shall have access to material safety data  
17 sheets and be knowledgeable in the site emergency response procedures.

18  
19 Section 104. Subsection 8001.9.2 of the Uniform Fire Code is hereby repealed. Section 8001  
20 of the Uniform Fire Code is amended by adding thereto a new subsection 8001.9.2 to read as  
21 follows:

22 **8001.9.2 Security.** The storage, dispensing, use and handling areas of hazardous materials shall  
23 be secured and protected against tampering or trespassers by fencing or other control  
24 measures.

25  
26 Section 105. Subsection 8001.11.1 of the Uniform Fire Code is hereby repealed. Section 8001  
27 of the Uniform Fire Code is amended by adding thereto a new subsection 8001.11.1 to read as  
28 follows:

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**8001.11.1 Temporarily out-of-service facilities.** Facilities which are temporarily out-of-service shall continue to be permitted, monitored and inspected. Facilities for which a closure plan is required shall notify the Chief when the out-of-service period exceeds 15 days.

Section 106. Subsection 8001.11.3 of the Uniform Fire Code is amended to read as follows:

**8001.11.3 Plan.** When required by the Chief, ((F)) the permit holder or applicant shall submit a plan to the Fire Department to terminate storage, dispensing, handling or use of hazardous materials at least 30 days prior to facility closure when the out of service period exceeds 15 days. The plan shall demonstrate that hazardous materials which were stored, dispensed, handled or used in the facility have been transported, disposed of or reused in a manner that eliminates the need for further maintenance and any threat ((to public health and safety)) of fire and explosion. Such plan shall be submitted in accordance with Section 8001.~~((3.1))~~11.3.

Section 107. Section 8001 of the Uniform Fire Code is amended by adding thereto a new subsection 8001.11.4 to read as follows:

**8001.11.4 Notice.** No person, firm or corporation required to file a facility closure plan in accordance with Section 8001.11.3 shall abandon, remove, close or substantially modify a facility or other area regulated by Article 80 without prior approval from the Chief. (See also Section 8001.11).

**EXCEPTIONS:** 1. Routine maintenance.

2. For emergency repair work performed on an emergency basis, application for permit shall be made within two working days of commencement of work.

The permit holder shall apply for approval to close storage, use or handling facilities at least 30 days prior to the termination of the storage, use or handling of hazardous materials. Such application shall include any change or alteration of the facility closure plan filed pursuant to Section 8001.11. This 30-day period may be waived by the Chief if there are special circumstances requiring such waiver.

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Section 108. Section 8001.12.1 of the Uniform Fire Code is amended to read as follows:

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**8001.12.1 General.** The aggregate quantity of nonflammable solid and nonflammable or noncombustible liquid hazardous materials within a single control area of a Group M retail or wholesale sales occupancy may, when approved by the Chief, ~~((is allowed to))~~ exceed the exempt amounts specified in Section 8001.13 when in accordance with Section 8001.12. The maximum quantity in pounds or gallons allowed within a single control area of a retail or wholesale sales occupancy may ~~((shall))~~ be the greater of the exempt amount derived from Section 8001.13 or the amount derived from the formula:

$$E^R = E \times R \times A$$

For **SI:**  $E^R = 10.8 \times E \times R \times A$

**Where:**

- $E^R$  = exempt amount allowed in a single control area of a retail or wholesale sales occupancy.
- F = exempt amount specified in Section 8001.13.
- R = multiplier for retail or wholesale sales occupancies from Table 8001.12-A.
- A = area of the hazardous material retail display or storage in square feet(m<sup>2</sup>).

Section 109. Table 8001.13-A Footnote 10 of the Uniform Fire Code is amended to read as follows:

\* \* \* \*

- 10. Quantities may be increased 100 percent when stored, dispensed or used inside ~~((#))~~ approved ~~((storage cabinets,))~~ exhausted gas cabinets, ~~((or))~~ exhausted enclosures or fume hoods ~~((as specified in Sections 8003.1.10, 8003.3.1.3.2 and 8003.3.1.3.3)).~~ When specifically approved under Fire Department permit, quantities may be increased in excess of 100 percent. When footnote 6 also applies, the increase for both footnotes ~~((may be applied))~~ is allowed.

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**POINT OF INFORMATION:**

This is intended to allow the Fire Department to conditionally permit gas for forklifts and acetylene used in numerous facilities without requiring a hazardous (H) occupancy.

The footnote applies to all hazard classes. Inspection guidelines will be developed to limit increases as appropriate per hazard class.

\* \* \* \*

Section 110. Table 8001.13-B Footnote 6 of the Uniform Fire Code is amended to read as follows:

\* \* \* \*

6. Quantities may be increased 100 percent when stored in approved storage cabinets, gas cabinets or exhausted enclosures as specified in Section 8003.1.10, 8003.3.1.3.2, and 8003.3.1.3.3. When specifically approved under Fire Department permit, quantities may be increased in excess of 100 percent. When Footnote 5 also applies, the increase for both footnotes may be ((applied)) adopted.

**POINT OF INFORMATION**

This is intended to allow the Fire Department to permit one 150 pound ammonia cylinder in use and one 150 pound ammonia cylinder in storage without requiring an H-7 occupancy. The footnote applies to other hazard classes. An inspection guideline will be developed to limit increases for this purpose.

\* \* \* \*

Section 111. Subsection 8003.1.1 of the Uniform Fire Code is amended to read as follows:

**8003.1.1 Applicability.** Storage of hazardous materials where the aggregate quantity is in excess of the exempt amounts set forth in Section 8001.13 shall be in accordance with Sections 8001 and 8003.

Storage of hazardous materials where the aggregate quantity does not exceed the exempt amounts set forth in Section 8001.13 shall be in accordance with Section 8001.

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For display and storage in retail and wholesale sales occupancies, see Section 8001.12.

~~((Hazardous materials regulated by other articles are not required to be in accordance with Section 8003 unless specifically indicated in Section 8003.))~~

Hazardous materials regulated by another article or articles shall also be in accord with Article 80, unless in the opinion of the Chief, the provisions in the other article or articles regarding specific quantities and safeguards for the hazardous materials provide adequate fire and life safety.

Section 112. Subsection 8003.1.6 of the Uniform Fire Code is amended to read as follows:

**8003.1.6 Storage plan.** A storage plan shall be provided ~~((for all storage facilities))~~ when required by the Chief. The plan shall indicate the intended storage arrangement, including the location and dimensions of aisles.

**EXCEPTION:** An additional storage plan will not be necessary if previously submitted as part of a hazardous materials management plan.

Section 113. Subsection 8003.1.14.1 of the Uniform Fire Code is amended to read as follows:

**8003.1.14.1 General.** Limit controls and warning devices shall be provided in accordance with Section 8003.1.14.

Section 114. Subsection 8003.1.14.2 of the Uniform Fire Code is amended to read as follows:

**8003.1.14.2 Liquid-level limit control.** Atmospheric tanks with a capacity exceeding 500 gallons (1893 L) used for the storage of hazardous materials liquids shall be equipped with a liquid-level limit control to prevent overfilling of the tank.

**EXCEPTIONS:** 1. Tanks monitored by a system which will limit net contents by weight.  
2. Atmospheric tanks used for the storage of Class II, III, IV and V organic peroxides.

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1           3. The Chief may accept audible warning systems or limit the contents of the tank by other  
2           means.

3 Section 115. Subsection 8003.13 of the Uniform Fire Code is amended to read as follows:

4  
5 **8003.13 Radioactive Materials.**

6  
7 **POINT OF INFORMATION:**

8           The provisions relating to the storage and use of radioactive materials  
9           and regulation of radioactive materials are deferred to the Washington  
10           State Department of Health, except that a no-fee permit, inventory  
11           statement and signs shall be provided as required by the Chief.

12 Section 116. Subsection 8003.15 of the Uniform Fire Code is hereby repealed. Section 8003 of  
13 the Uniform Fire Code is amended by adding thereto a new subsection 8003.15 to read as  
14 follows:

15 **8003.15 Carcinogens, Irritants, Sensitizers and Other Health Hazard Solids, Liquids and Gases.**

16 **8003.15.1 General.** Indoor and outdoor storage of carcinogens, irritants, sensitizers and  
17 other health hazard solids, liquids and gases shall be in accordance with Section 8003.15.

18 **8003.15.2 Permits.** A no fee permit shall be obtained to store and/or use a health hazard solid,  
19 liquid or gas in excess of the permit threshold quantities specified in Section 105.8 (Tables 105-  
20 A and 105-C).

21  
22 **8003.15.3 Building signs.** Visible hazard identification signs as specified in UFC Standard 79-3  
23 shall be placed at entrances to locations where other health hazard materials are stored,  
24 dispensed, used or handled in quantities requiring a permit. The Chief shall designate the  
25 specific entrances where signs are required. The Chief may waive this requirement in special  
26 cases when consistent with safety.

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28 **8003.15.4 Container labeling.** Individual containers, cartons or packages shall be conspicuously  
marked or labeled in accordance with nationally recognized standards or as approved by the  
Chief.

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**8003.15.5 Inventory statements and site maps.** When required by the Chief, each application for a permit pursuant to Section 8003.15 shall include a Hazardous Material Inventory Statement (HMIS) in accordance with requirements stipulated by the Chief.

When required by the Chief, each application for a permit pursuant to Section 8003.15 shall include a Hazardous Materials Site Map in accordance with requirements stipulated by the Chief.

Section 117. Subsection 8004.1.1 of the Uniform Fire Code is hereby repealed. Section 8004 of the Uniform Fire Code is amended by adding a new subsection 8004.1.1 to read as follows:

**8004.1.1 Applicability.** Use, dispensing and handling of hazardous materials where the aggregate quantity is in excess of the exempt amounts set forth in Section 8001.13 shall be in accordance with Sections 8001 and 8004.

Use, dispensing and handling of hazardous materials where the aggregate quantity does not exceed the exempt amounts set forth in Section 8001.13 shall be in accordance with Section 8001. For flammable, oxidizing and pyrophoric gases, see also Section 8001.14.

Hazardous materials regulated by another article or articles shall also be in accord with Article 80, unless in the opinion of the Chief, the provisions in the other article or articles regarding specific quantities and safeguards for the hazardous materials provide adequate fire and life safety.

Section 118. Subsection 8004.2.2.2 of the Uniform Fire Code is amended to read as follows:

**8004.2.2.2 Ventilation.** When gases, liquids or solids having a hazard ranking of 3 or 4 in accordance with U.F.C. Standard No. 79-3 are dispensed or used, mechanical exhaust ventilation shall be provided to ((capture)) control fumes, mists or vapors at the point of generation.

**EXCEPTION:** Gases, liquids or solids which can be demonstrated not to create

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harmful fumes, mists or vapors based on applicable recognized standards.

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Section 119. Subsection 8004.2.2.3 of the Uniform Fire Code is hereby repealed.

Section 120. Article 80 of the Uniform Fire Code is amended by adding thereto a new Section 8005 to read as follows:

**SECTION 8005 -- TRANSPORTATION**

**8005.1 Inspections of vehicles.** In order to determine compliance with Article 80, the Chief, upon presenting identification to the owner, agent or operator, is authorized to enter and inspect all vehicles,

including equipment, containers and labelling therein. Rules governing the conduct of regular, uniform and systematic inspection, entry and, where appropriate, impoundment of vehicles, shall be adopted by the Chief, pursuant to Section 101.4 of this Code.

**8005.1.1 Definitions.** For purposes of Article 80, "vehicles" means:

1. Every "combination of vehicles", "commercial vehicle", "motor truck", "motor vehicle", "semitrailer", "trailer", "truck tractor", or "vehicle", as defined in the Traffic Code, Seattle Municipal Code, Chapter 11.14; and
2. Container, cargo container, tank container, and overseas van, whether or not connected to a chassis.

**8005.1.2 Inspections of buildings.** Regular inspections of buildings and premises to determine compliance with this article shall be conducted pursuant to the provisions of Article 1 of this code.

**8005.1.3 Records.** The Chief shall make a record of inspection and a copy of said record shall be provided to the owner, operator, or agent, or attached to the vehicle. When necessary, vehicles shall be resealed using a Fire Department seal.

**8005.2 Impoundment.** In the event of a violation of Article 80 and in the event that further

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1 unrestricted movement of a vehicle may constitute a danger to persons or property, the Chief  
2 may order the impoundment of such vehicles and the immediate correction of the violation.

3 **8005.3 Access.** Upon the refusal of an owner, agent or operator to allow entry or inspection  
4 by the Chief acting under the authority of Section 8005.1, the Chief shall order the  
5 impoundment of the vehicle, and shall proceed to the Municipal Court of the City of Seattle  
6 and request an inspection warrant to complete the inspection.

7  
8 The provisions of this section shall not limit the authority of the Chief to enter and inspect  
9 vehicles if there is probable cause to believe there exists a violation of this Article therein.

10  
11 **8005.4 Failure to comply.** Failure to comply with the order of the Chief concerning the  
12 impoundment of vehicles under Section 8005.1, or the failure to stop for purposes of allowing a  
13 request for inspection to be made pursuant to Section 8005.1, or the failure to permit  
14 inspection pursuant to a lawfully issued inspection warrant shall constitute a crime as provided  
15 for in Chapter 12A of the Seattle Municipal Code.

16  
17 **8005.5 Crimes.** Any person, firm, corporation, or unincorporated association operating or  
18 maintaining any vehicle in violation of this article shall be guilty of a crime as provided for in  
19 Chapter 12A of the Seattle Municipal Code.

20 **8005.6 Unattended Vehicles**

21 **8005.6.1 General.** A vehicle containing or carrying hazardous materials shall not be left  
22 unattended at any time on any residential street, nor in or within 500 feet of any building  
23 containing a Group R, E or I occupancy, including any dwelling, apartment, hotel, day care,  
24 school, hospital or health care facility.

25  
26 For the purposes of Section 8005.6, a vehicle shall be deemed to be unattended whenever the  
27 driver cannot see the vehicle or hear noises in or near the vehicle.

28 **8005.6.2 Prohibition.** In locations other than those specified in Section 8005.6.1, a driver shall

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1 not leave a vehicle containing or carrying hazardous materials unattended on any street,  
2 highway, avenue, alley, or in any parking lot.

3 **EXCEPTIONS:** 1. The necessary absence in connection with loading and unloading the  
4 vehicle.

5 2. Stops for meals during the day or night, if the street is well lighted at the point of  
6 parking.

7 3. When, in case of accident or other emergency, the operator must leave to obtain  
8 assistance.

9  
10 **8005.6.3 Transfers.** Vehicles transferring liquids and/or gases by means of hose line shall never  
11 be left unattended during the transfer process.

12  
13 Section 121. Subsection 8102.8.1 of the Uniform Fire Code is amended by adding thereto an  
14 exception to read as follows:

15 **8102.8.1 Small hose stations.** When small hose valves and stations are required by Table 81-A,  
16 approved 1½-inch (38.1mm) hose valves shall be provided at approved locations. When  
17 required by the Chief, hose, nozzles, hose racks, and cabinets or covers shall be provided. See  
18 U.F.C. Standards 81-1 and 81-2.

19  
20 **EXCEPTION:** The Chief may waive the hose station requirement for small areas (2,500  
21 square feet or less) and/or cold storage buildings.

22  
23 Section 122. Subsection 8202.1 of the Uniform Fire Code is hereby repealed. Section 8202 of  
24 the Uniform Fire Code is amended by adding thereto a new subsection 8202.1 to read as  
25 follows:

26  
27 **8202.1 Permits and Plans.** A permit is required for storage or use of liquified petroleum gas  
28 (LPG) where noted on Table 8202-A and for any container or tank exceeding 20 gallons (100  
lbs.) LP-Gas capacity.

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**EXCEPTION:** Tanks of 125-gallon aggregate water capacity or less that are located at residential occupancies and used for heating purposes only.

Distributors shall not fill an LP-gas container for which a permit is required unless a permit for installation has been issued for that location by the chief.

Where a single container is over 2,000-gallon (7,571L) water capacity or the aggregate capacity of containers is over 4,000-gallon (15,142L) water capacity, the installer shall submit plans for such installation.

**8202.1.1 Tank storage.** Tank and container storage and use shall conform to this Article and Uniform Fire Code Standard 82-1 except where requirements of the Article and Standard are modified by Table 8202-A.

**8202.1.2 Prohibition.** Tank storage is prohibited in the Fire District.

**EXCEPTION:** Tanks up to 500 gallons LP-gas capacity are permitted west of Alaskan Way.

**8202.1.3 Permit not required.** A permit is not required for transportation of LPG in U.S. Department of Transportation (DOT) approved cylinders or tanks except:

1. Tank delivery vehicles shall have a tank vehicle permit.
2. Tanks and containers larger than 20 gallons (100 lbs.) capacity are prohibited in the Fire District east of Alaskan Way.
3. Intermodal shipping containers for water transit shall be stored and handled under Seattle Fire Department Master Harbor Permit.

A permit is not required for highway or construction vehicle fuel tanks, except use of LPG

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1 fueled construction or maintenance equipment in a basement is prohibited unless authorized by  
2 specific job site permit. Accessory fuel tanks on vehicles do not require a permit except for  
3 tanks over 20 gallons (100 lbs.) in size or vehicles serving an outdoor assembly event.

4 Section 123. Subsection 8202.2 of the Uniform Fire Code is amended to read as follows:  
5

6 **8202.2 Records.** Installers shall maintain a record of installations involving more than 60  
7 gallons for which a permit is not required by Section ((405)) 8202.1 and have such record  
8 available for inspection by the Chief.  
9

10 **EXCEPTION:** Installation of gas-burning appliances and replacement of portable cylinders.  
11

12 Section 124. Article 82 of the Uniform Fire Code is amended by adding thereto a new Table  
13 8202-A to read as follows:  
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TABLE 8202-A--LIQUIFIED PETROLEUM GAS PERMIT REQUIREMENTS

ACTIVITY	LOCATION	OCCUPANCY	MAXIMUM CONTAINER SIZE GAL. (Lbs.)	MAXIMUM TOTAL QUANTITY GAL. (Lbs.)	PERMIT THRESHOLD AMOUNT GAL. (Lbs.)	
Hand Torches	Any	A, E, I Any except A, E, I	1 qt. 1 qt.	1 (5) 2 (10)	> 1 qt. container or > 2 gallons aggregate quantity.	Permit
Jeweler, Dental labs	Any	B	2 (10)	2 (10)	> 2 gallon container or > 2 gallons aggregate quantity.	
Forklifts	Fire District or basement Elsewhere Any	Any except A Any except A A when occupied	10 (50) 10 (50) 0	40 (200) 60 (300) 0	30 (150) 0	No b H-oc Spec
Refrigeration/Processes and Accessory Fuel Tanks	Any	B, H, or outdoors	N/A	60 (300)	0	
Hot Roof Tar Kettles (0-600 GAL.)	Fire District Elsewhere	Any Any	20 (100) 20 (100)	40 (200) 80 (400)	0 0	Job comb Prohib
Hot Roof Burner Units (Torches)	Fire District Other	Unoccupied Building Occupied Building Unoccupied Building Occupied Building	6 (30) 6 (30) 6 (30) 6 (30)	70 (350) 28 (135) 70 (350) 28 (135)	0 0 0 0	Permit Permit See I Permit

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TABLE 8202-A--LIQUIFIED PETROLEUM GAS PERMIT REQUIREMENTS

OCCUPANCY	MAXIMUM CONTAINER SIZE GAL. (Lbs.)	MAXIMUM TOTAL QUANTITY GAL. (Lbs.)	PERMIT THRESHOLD AMOUNT GAL. (Lbs.)	COMMENTS
A, F 1	1 qt.	1 (5)	> 1 qt. container or > 2 gallons aggregate quantity.	Permit required for open flame in assembly or marina.
A, except A <sub>1</sub>	1 qt.	2 (10)		
B	1 (10)	2 (10)	> 2 gallon container or > 2 gallons aggregate quantity.	
Any except A	1 (50)	40 (200)	30 (150)	No bobtail refueling. See Footnote 2.
Any except A	1 (50)	60 (300)		H-occupancy required if in excess of maximum total quantity.
Unoccupied		0	0	Special permit required for any use.
A, H, no outdoors	N/A	60 (300)	0	
A <sub>2</sub>	20 (100)	40 (200)	0	Job site notice required. Prohibited on rooftop, pier or combustible deck.
Any	20 (100)	80 (400)	0	Prohibited on rooftop, pier, or combustible deck.
Unoccupied Building	6 (30)	70 (350)	0	Permit required for each job site.
Occupied Building	6 (30)	28 (135)	0	Permit required for each job site. See Footnote 1.
Unoccupied Building	6 (30)	70 (350)	0	Permit not required for each job site.
Occupied Building	6 (30)	28 (135)	0	Permit not required for each job site.

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TABLE 8202-A--LIQUIFIED PETROLEUM GAS PERMIT REQUIREMENTS

ACTIVITY	LOCATION	OCCUPANCY	MAXIMUM CONTAINER SIZE GAL. (Lbs.)	MAXIMUM TOTAL QUANTITY GAL. (Lbs.)	PERMIT THRESHOLD AMOUNT GAL. (Lbs.)	
Hot Roof Tank Trucks	Fire District	Outside	20 (100)	40 (200)	0	Permit Prohib
	Elsewhere	Outside	300 (1,500)	300 (1,500)	0	Permit Prohib
Indoor cooking Tablesides, food warming	Any	B, A	1 qt.	5 (25)	0	
		Other	5 (25)	5 (25)	0	R1 &
Outdoor Cooking	Fire District	A, E, I	5 (25)	10 (50)	0	Repea
	Elsewhere	A, E, I	10 (50)	30 (150)	0	Repea booth.
		With manifold	20 (100)	80 (400)	0	Reduc is not wall.
	Any	B	5 (25)	10 (50)	0	
Storage and Sales Miscellaneous	Any	Any	8 oz.	1 (5)	> 8oz. container or > 1 gallon aggregate quantity.	
Storage and Sales -- Containers less than 5 gallons but larger than 8 oz.	Fire District and any sprinklered building	F, M, S	1 qt.	15 (75)	> 1 qt. container or > 15 gallons aggregate quantity	Conta
		F, M, S	1 qt.	15 (75)	> 1 qt. container or > 15 gallons aggregate quantity.	Conta
	Elsewhere	H-2	2,000(10,000)	30 (150)		Conta Also a

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TABLE 8202-A--LIQUIFIED PETROLEUM GAS PERMIT REQUIREMENTS

OCCUPANCY	MAXIMUM CONTAINER SIZE GAL. (Lbs.)	MAXIMUM TOTAL QUANTITY GAL. (Lbs.)	PERMIT THRESHOLD AMOUNT GAL. (Lbs.)	COMMENTS
Outside	20 (100)	40 (200)	0	Permit required for each job site. Prohibited over combustible construction.
Outside	300 (1,500)	300 (1,500)	0	Permit required for each job site. Prohibited over combustible construction.
B, A	1 qt.	5 (25)	0	R1 & R3 Occupancies exempt from permit.
Other	5 (25)	5 (25)	0	
A, E, I	5 (25)	10 (50)	0	Repeat at 30 feet.
A, E, I	10 (50)	30 (150)	0	Repeat at 30 feet. Maximum of 3 containers per booth.
With manifold	20 (100)	80 (400)	0	Reduce total quantity to 30 gallons when storage is not separated from public by 30 ft. or a fire wall.
B	5 (25)	10 (50)	0	
Any	8 oz.	1 (5)	> 8oz. container or > 1 gallon aggregate quantity.	
F, M, S	1 qt.	15 (75)	> 1 qt. container or > 15 gallons aggregate quantity	Containers prohibited in basements.
F, M, S	1 ct.	15 (75)	> 1 qt. container or > 15 gallons aggregate quantity.	Containers prohibited in basements.
H-2	2,000(10,000)	30 (150)		Containers prohibited in basements. Also applies to larger containers.

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TABLE 8202-A--LIQUIFIED PETROLEUM GAS PERMIT REQUIREMENTS

ACTIVITY	LOCATION	OCCUPANCY	MAXIMUM CONTAINER SIZE GAL. (Lbs.)	MAXIMUM TOTAL QUANTITY GAL. (Lbs.)	PERMIT THRESHOLD AMOUNT GAL. (Lbs.)	
Storage and sales -- 5 gallon containers	Fire District	Any	0	0	N/A	
	Elsewhere	F, M, S	5 (25)	15 (75)	> 5 gallon container or > 15 gallons aggregate quantity	
Storage and sales -- 20 gallon containers						
Wholesale	Any	F, M, S	20 (100)	40 (200)	30 (150)	Automatic
Service	Any	F, H-4, M, S	20 (100)	60 (300)	30 (150)	With or w
Wholesale/service	Any	Outdoors	20 (100)	Per Permit	60 (300)	See Sectio
Buildings under construction or undergoing major repair	Any	Any	20 (100)	60 (300) per floor 360 (1,800) per site	0	
Demonstrations Except Food Booths	Any	A	2 (10)	2 (10)	0	The perm with addit approval demonstra a minimum

N/A = Not Applicable

1 Population density and occupancy activities shall be considered and quantities reduced as appropriate prior to permit issuance.

2 Refueling of forklift tanks (on or off forklifts) from bulk tankers.

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TABLE 8202-A--LIQUIFIED PETROLEUM GAS PERMIT REQUIREMENTS

OCCUPANCY	MAXIMUM CONTAINER SIZE GAL. (Lbs.)	MAXIMUM TOTAL QUANTITY GAL. (Lbs.)	PERMIT THRESHOLD AMOUNT GAL. (Lbs.)	COMMENTS
Any	0	0	N/A	
F, M, S	5 (25)	15 (75)	> 5 gallon container or > 15 gallons aggregate quantity	
F, M, S F, H-4, M, S Outdoors	20 (100) 20 (100) 20 (100)	40 (200) 60 (300) Per Permit	30 (150) 30 (150) 60 (300)	Automatic sprinklers required. With or without sprinklers. See Section 5-4, U.F.C. Standard 82-1.
Any	20 (100)	60 (300) per floor 360 (1,800) per site	0	
A	2 (10)	2 (10)	0	The permit amount may be increased with additional safeguards and the approval of the Fire Chief. Similar demonstrations must be separated by a minimum of 50 feet.

considered and quantities reduced as appropriate prior to permit issuance.  
k tankers.

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Section 125. Section 8701 of the Uniform Fire Code is amended to read as follows:

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**SECTION 8701 -- SCOPE**

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Buildings undergoing construction, alteration or demolition shall be in accordance with Article 87.

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The provisions of this Article may be waived when the Chief has determined that such enforcement is preempted by other codes, statutes or ordinances or that, as a matter of fire and life safety, other satisfactory regulatory safeguards or satisfactory industry standards are in place. The details of any action granting such a waiver may be, but are not required to be, recorded and entered in the files of the code enforcement agency.

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Section 126. Subsection 8704.4.3 of the Uniform Fire Code is hereby repealed. Section 8704 of the Uniform Fire Code is amended by adding thereto new subsection 8704.4.3 to read as follows:

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Subsection 8704.4.3 Standpipes is replaced in its entirety by Seattle Building Code Section 904.6. See Appendix IV-D.

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19

Section 127. Section 8707 of the Uniform Fire Code is amended by adding thereto a point of information to read as follows:

20

**SECTION 8707 -- ASBESTOS REMOVAL**

21

22

**POINT OF INFORMATION:**

The provisions relating to the removal of asbestos materials and regulation of asbestos-containing materials are deferred to the Puget Sound Air Pollution Control Agency.

23

24

25

Section 128. The Uniform Fire Code is amended by adding thereto a new Article, Article 190 to read as follows:

26

27

**ARTICLE 190**

28

**RESIDENTIAL OCCUPANCIES FOUR STORIES AND OVER**

**SECTION 19001 -- GENERAL**

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1 **19001.1 Definitions.** The following words and terms shall have the meaning specified in  
2 Section 19001.1:

3 **APARTMENT HOUSE:** Any building or portion thereof, containing three (3) or more  
4 dwelling units.

5 **APARTMENT HOTEL:** A building containing both dwelling units and guest rooms.

6 **GUEST ROOM:** Any room or rooms used or intended to be used for sleeping purposes by  
7 a person hiring such room or rooms.

8 **HOTEL:** A building in which is conducted the business of lodging the public and which  
9 contains six (6) or more guest rooms.

10 **19001.2 Exit Enclosure Required.** All existing apartment houses, apartment hotels and hotels  
11 four (4) stories or more in height, shall have at least two (2) fully enclosed stairways which have  
12 a one-hour fire-resistive rating throughout. The interior corridors and egressways thereof,  
13 including all doors, transoms and other openings into corridors, shall be constructed or  
14 improved to substantially have a one-hour fire-resistive rating throughout. In buildings  
15 constructed as apartment houses in accordance with the Building Code and being operated as  
16 apartment houses, walls and ceilings of plaster on wood lath or 1/2-inch plasterboard  
17 construction, and 1-3/8-inch solid core doors or equivalent shall be sufficient to meet the  
18 requirements of this section.

19 **19001.3 Sprinkler Alternative.** In lieu of compliance with the requirements of Section 19001.2,  
20 approved automatic fire sprinkler systems may be installed in all stairways, interior corridors  
21 and egressways of existing apartment houses, apartment hotels, and hotels four (4) stories or  
22 more in height. Automatic sprinkler systems, if so installed, shall also be installed in all janitor  
23 rooms, storage closets, utility rooms, and other usable spaces in which combustible materials are  
24 or may be sorted or kept, unless such rooms or spaces are equipped with self-closing fire doors  
25 having a one-hour fire-resistive rating.

26  
27 Section 129. The Uniform Fire Code is amended by adding thereto a new Article, Article 191  
28 to read as follows:

**ARTICLE 191**

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## AUTOMATIC SPRINKLER SYSTEMS IN NURSING HOMES

### SECTION 19101 -- SCOPE

19101.1 **Nursing Home Defined.** The term "nursing home" when used in this Article means any home, place, or institution which operates or maintains facilities providing convalescent or chronic care, or both, for a period in excess of 24 consecutive hours for three (3) or more patients not related by blood or marriage to the operator, who by reason of illness or infirmity are unable properly to care for themselves. Convalescent and chronic care may include, but is not limited to any or all procedures commonly employed in waiting on the sick such as administration of medicines, preparation of dressings and bandages, and carrying out of treatment prescribed by a duly licensed practitioner of the healing arts. It may also include care of mentally incompetent persons if they do not require psychiatric treatment by or under the supervision of a physician specialized in the field of medicine. Nothing in this definition shall be construed to include general hospitals or other places which provide care and treatment for the acutely ill and maintain and operate facilities for major surgery or obstetrics, or both. Nothing in this definition shall be construed to include any boarding home, guest home, hotel or related institution which is held forth to the public as providing, and which is operated to give only board, room and laundry to persons not in need of medical or nursing treatment or supervision, except in the case of temporary acute illness. The mere designation by the operator of any place or institution, which does not provide care for the acutely ill or maintain and operate facilities for major surgery or obstetrics, as a hospital, sanitarium, or similar name shall not exclude such place or institution from the provisions of Section 19102.

### SECTION 19102 -- INSTALLATION OF EQUIPMENT

19102.1 **Installation Exceptions.** Approved automatic fire sprinkler systems shall be installed in all usable rooms, corridors, and stairways of existing nursing homes with the following exceptions:

1. Nursing homes which are of Type I or II construction throughout, as defined in the Building Code.
2. Nursing homes not more than one story in height which have interiors with a one-hour fire resistance rating throughout.

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1 Section 130. The Uniform Fire Code is amended by adding thereto a new Article, Article 192  
2 to read as follows:

3 **ARTICLE 192**

4 **AUTOMATIC SPRINKLER SYSTEMS IN SCHOOLS**

5 **SECTION 19201 -- GENERAL**

6 **19201.1 School Buildings Defined.** The term "school building," when used in this Article  
7 means:

- 8 1. A public place of instruction operated by public authorities, including elementary and  
9 secondary schools.  
10 2. A place of instruction operated by private persons or private or religious organizations in  
11 which the course of study is similar to that in a public school, and which has been authorized by  
12 the State as an educational institution.

13 **SECTION 19202 -- INSTALLATION OF EQUIPMENT**

14 **19202.1 Installation Exceptions.** An approved automatic fire sprinkler system shall be installed  
15 in all usable rooms, corridors and stairways of existing school buildings, two (2) stories or more  
16 in height, with the following exceptions:

- 17 1. School buildings which are of Type I or II construction as defined in the Building  
18 Code.  
19 2. School buildings not over three (3) stories in height which have interiors with one-  
20 hour fire resistance rating throughout, and which have egress enclosures with a one-  
21 hour fire resistance rating.  
22 3. School buildings, not over three (3) stories in height, with interiors which substantially  
23 have a one-hour fire resistance rating, need only have egress corridors, stairways,  
24 janitor rooms, storage rooms and similar spaces equipped with approved automatic  
25 sprinkler systems. Classrooms and assembly rooms in such buildings need not be so  
26 equipped.

27 Section 131. The Uniform Fire Code is amended by adding thereto a new Article, Article 193  
28 to read as follows:

**ARTICLE 193**

**MINIMUM STANDARD FOR HIGH-RISE BUILDINGS**

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**SECTION 19301 -- GENERAL**

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**19301.1 Purpose.** The main purpose of this article is to improve the fire and life safety of existing high-rise buildings that do not conform to current City codes so that the health, safety and welfare of the general public is provided for and promoted. It is recognized that the application of present day fire protection techniques to some existing high-rise buildings is difficult. For this reason, this article may permit the use of alternative methods and innovative approaches and techniques to achieve its purpose, when approved by the Chief and the Building Official.

**19301.2 Scope.** This article shall apply to all high-rise buildings in existence at the time of its adoption, as well as to all high-rise buildings coming into existence after the adoption thereof.

**19301.2.1 Hazards and design features.** Whenever the Chief shall find a condition in a high-rise building not specifically addressed in this Article, which in his opinion makes fire escape or fire fighting unusually difficult, he shall declare it to be a hazard, notify the owner of such condition and order its correction in a manner consistent with these minimum safeguards.

**19301.2.2 Exempt Buildings.** The Chief and the Director of the Department of Construction and Land Use may exempt high-rise buildings that meet the requirements of Section 403 of the Building Code from complying with provisions of this Article.

**19301.2.3 Conflicts.** Where there is a conflict between an ordinance or code and the provisions of this article, this article shall govern unless the ordinance or code establishes more stringent fire and life safety requirements.

**19301.3 Definitions.** For the purpose of this Article, certain words shall be construed as specified in this section.

**CENTRAL STATION:** A fire alarm reporting service listed by the Underwriters Laboratories or authorized by the Chief to report alarms to the Seattle Fire Department Alarm Center. In lieu of connection to a central station listed by Underwriters

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Laboratories, the Chief may approve building staff monitoring of a fire alarm annunciator panel where:

1. Such staff are properly trained to monitor the annunciator panel and report alarm signals to the Fire Department Alarm Center via the 9-1-1 system.
2. One or more building staff is on duty 24 hours a day and, remains in the direct vicinity of the annunciator panel, e.g., a hotel desk clerk where the panel is behind the registration desk.
3. Staff persons in low income high-rise buildings whose primary duty requires them to be at the front desk are available.

**DEAD-END CORRIDOR:** A corridor which permits only one direction of travel from a unit or normally occupied room door to an exit, or which intersects an exit corridor on one end and does not provide an exit path on the other end. A corridor which has fire escapes directly accessible from it is not a dead-end corridor.

**FLOOR USED FOR HUMAN OCCUPANCY:** A floor designed and intended for occupancy by one or more persons for any part of a day, including a roof garden and an active storage area. An area that is permanently unoccupied or is occupied for the service of building equipment only is not included in this definition.

**HIGH-RISE BUILDING:** Buildings having floors used for human occupancy located more than 75 feet above the lowest level of Fire Department vehicle access.

**LOW INCOME RESIDENTIAL BUILDINGS:** Are defined for this Article as those buildings that meet the following requirements:

1. At least fifty percent (50%) of the dwelling or housing units as defined in the Housing Code (Seattle Municipal Code Ch. 22.204) are rented to non-transient

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persons at a rent at or below .9% of the current median income for all families in the Seattle area as determined by the United States Department of Housing and Urban Development; and

2. The average monthly rent for all dwelling or housing units in the building does not exceed 1.4% of the Median Income Limit.

For purposes of calculating the average monthly rent, a room which is rented on a hostel-style basis to three (3) or more non-related persons shall be considered as one room rented for \$200 per month.

Monthly rent shall include all charges for shelter and provision of items normally associated with such use, but shall not include board, health care, telephone charges and other such items.

**SECTION 19302 -- EXITS**

**19302.1 General.** All exits in high-rise buildings shall be illuminated as required in Section 1211 of this Code and enclosed with a minimum of one-hour fire resistive construction. Every high-rise building shall have at least one such exit. Where existing exterior fire escapes are used for additional exits, they shall be tested and identified as required in Section 19302.3.

**19302.2 Smokeproof enclosure.** Where a high-rise building has a single, enclosed exit, the enclosure shall be continued to the exterior of the building and the exit shall be smoke-proof by mechanical ventilation in accordance with Section 3310 of the 1982 Seattle Building Code, or shall be mechanically pressurized with fresh air to 0.15 inches water column and shall have a concurrent 2500 cubic feet per minute (CFM) exhaust to atmosphere in an emergency, in accordance with the provisions of the Building Code.

**EXCEPTIONS:** 1. Pressurization may be omitted when the building has an approved automatic sprinkler system, all corridor openings are self-closing, all occupied areas have

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access to a second means of egress or a fire escape and the omission is approved by the Chief.

2. A single stair may exit through a building lobby, where the lobby is of non-combustible construction, does not contain combustible furnishings, and is separated from the rest of the building by one-hour construction. Wire-glass protected by sprinklers on both sides may be accepted as one-hour construction. Where the lobby contains no combustible materials, wire-glass need only be protected by sprinklers on the side opposite the lobby.

**19302.3 Fire Escapes.** Exterior fire escapes shall be accessible and structurally safe at all times. Owners of high-rise buildings shall load test fire escapes at least once every five (5) years with a weight of not less than 100 lb/sq. foot. The results of such a load test shall be submitted in writing to the Chief. In lieu of such a test, the Chief may accept the opinion of a structural engineer licensed by the State of Washington describing his inspection and/or tests and stating that the fire escape is structurally safe and will support a load of 100 lb/sq. foot. There shall be signs approved by the Chief clearly identifying the route of access to the fire escape from every public corridor. Fire escapes which are not maintained structurally safe and not otherwise required by provisions of the Fire Code shall be removed.

Locked doors or windows are prohibited between public corridors and fire escapes.

**EXCEPTIONS:** Where all of the following criteria are met and approved by the Chief:

1. An identified tool or device for opening the locked door or window is permanently affixed in close proximity to the locked point.
2. The area around the locked door or window is served by emergency illumination.
3. Clearly understandable directions indicating the use of the tool and the route to the fire escape are posted at the locked door or window.

**19302.4 Doors.** All exit doors in the path of exit travel shall be self-closing or automatic closing in accordance with Section 713.6 of the Building Code. Doors held open by fusible

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1 links, and sliding or vertical doors are prohibited in exit-ways. Stairway doors shall be self-  
2 latching.

3 **19302.5 Unlocking of doors.** Stairway doors, including the doors between any stairway and the  
4 roof, shall not have locks or shall unlock automatically whenever a fire alarm is activated in the  
5 high-rise building. Such locks shall unlock automatically when power is off (fail safe). Where  
6 the only locked door in a stair shaft is the one that leads to the roof, it may be locked by panic  
7 hardware or approved alarm lock paddle bars.

8  
9 **19302.6 Egress from stairways.** Enclosed stairways serving more than six (6) floors shall have  
10 two (2) means of egress from the stairway. Enclosed stairways serving ten (10) or more floors  
11 shall have re-entry into the building at approximately 5-story intervals. Re-entry signs shall be  
12 posted in the stair.

13  
14 **EXCEPTIONS:** 1. Jails.

15 2. Where telephones connected to a 24-hour manned location are provided in the stairway  
16 in each 5-floor increment that does not have a means of egress.

17 3. Where any door serving as an entrance to the stair does not automatically lock behind a  
18 person entering the stair.

19 4. Where alternate means of alerting building management to persons trapped in a  
20 stairwell are approved by the Building Official.

21 **SECTION 19303 -- DEAD-END CORRIDORS**

22 Dead-end corridors are limited to 75 feet in length in office occupancies and 30 feet in length  
23 in all other occupancies. Where such limits are exceeded, automatic sprinkler protection  
24 meeting the requirements of the Fire Code and the Building Code shall be provided for the  
25 entire dead-end corridor, with one head on the room side of each door opening onto the  
26 corridor. Domestic water systems may be used to supply such sprinklers when approved by the  
27 Chief.

28 **EXCEPTIONS:** 1. In high-rise buildings, inactive doors leading from the dead-end  
corridor into spaces which are not in normal use may be covered with 5/8" type "x" gypsum

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1 board or its equivalent, in lieu of installing a sprinkler head over the door or smoke  
2 detector in the room.

3 2. In office occupancies, sprinkler heads on the room side of each door opening onto the  
4 corridor need not be installed.

5 3. In residential buildings, where corridors and each guest room are equipped with  
6 electrically supervised smoke detectors connected to the building fire alarm system,  
7 sprinkler heads, or any combination thereof. Where smoke detectors are used in rooms in  
8 lieu of sprinklers, doors must be rated at 20 minutes and must be self-closing.

9 4. In office occupancies, sprinkler systems are not required in a dead-end corridor where  
10 the corridor is equipped with smoke detectors and each room opening onto the corridor is  
11 equipped with at least one smoke detector. Such detector shall be electrically supervised  
12 and connected to the building fire alarm system.

13 5. Where there is a fire escape not directly accessible from the corridor and the exit route  
14 is protected by electrically supervised smoke detection.

15 6. Corridors within residential units are exempt.

16 7. Corridors within private offices may have corridor only smoke detection connected to  
17 the building alarm systems.

18 **SECTION 19304 -- FIRE RESISTIVE CONSTRUCTION**

19 **19304.1 Fire separation.** Any space larger than 1,500 square feet shall be separated from  
20 building stair shafts, elevator shafts and air handling shafts by non-combustible smoke resistive  
21 separation (glass walls with wood stops are acceptable) and equipped with smoke detectors  
22 connected to the building fire alarm system.

23 **EXCEPTIONS:** 1. Spaces that have approved automatic sprinkler systems.

24 2. Building lobbies or corridors which are equipped with an approved smoke control  
25 system that includes shaft pressurization and automatic smoke removal.

26 3. Building lobbies or corridors of any size that do not contain combustible furnishings  
27 (other than carpet) or commercial spaces and have non-combustible interior finish  
28 throughout.

**NOTE:** To qualify for exception 3, all spaces adjacent to the building lobby must be  
separated and equipped with smoke detectors as outlined in this section, and all doors

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1 leading into the lobby must be self-closing or automatically closing upon activation of the  
2 building fire alarm system.

3 4. Office areas above the main lobby, including open space design areas.

4 **NOTE:** This exception does not apply to retail or wholesale stores, display rooms,  
5 restaurants, cocktail lounges and bars, banquet rooms, meeting rooms, storage rooms and  
6 spaces which, because of unusual fuel load or other conditions, pose an unusual hazard in  
7 the opinion of the Chief.

8 5. Smoke detectors shall not be required in spaces which are separated by one-hour  
9 construction, with openings protected by one-hour self-closing doors.

10 Domestic water systems may be used to supply the sprinkler system referred to in this section  
11 when approved by the Chief.

12 **19304.2 Shaft enclosures.** All openings which connect three (3) or more floors shall be  
13 enclosed with a minimum of one-hour fire resistive construction.

14 **EXCEPTION:** Openings complying with Sections 304.6 or 402 of the Building Code.

15  
16 **SECTION 19305 -- HEATING, VENTILATION AND AIR CONDITIONING SYSTEM**  
17 **(HVAC) SHUTDOWN**

18 Air moving systems that serve more than the floor on which they are located shall automatically  
19 shut down on any high-rise building fire alarm, or shall be provided with a manual shutdown  
20 switch located at the fire alarm panel in the main building lobby.

21 **EXCEPTION:** Air moving systems of:

- 22 1. Less than 2,000 CFM.  
23 2. Exhaust only systems of less than 15,000 CFM, such as toilet, range hood, kitchen,  
24 fume hood, etc.  
25 3. HVAC systems of less than 15,000 CFM with automatic shut-down on smoke detectors  
26 in the area served, which are connected to the building fire alarm system.  
27 4. Life safety pressurization systems as provided in the Building Code.  
28 5. Buildings with approved automatic smoke control pursuant to Section 1807 of the 1982  
edition of the Seattle Building Code.

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**SECTION 19306 -- FIRE ALARM AND DETECTION SYSTEMS**

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**19306.1 General.** Every high-rise building, except a residential occupancy with a system installed under Ordinance 106107 as now or hereafter amended, shall have an electrically supervised fire alarm and detection system approved by the Chief, as follows:

A manual pull station shall be located at every floor exit door, except in office occupancies.

The alarm system for the high-rise building shall be monitored by a central station, or other such means approved by the Chief.

The alarm systems shall be electrically supervised and have battery emergency power sufficient to operate for a period of 24 hours and sound the alarm for 10 minutes at the end of that period.

**19306.2 Automatic smoke detection.** There shall be electrically supervised automatic smoke detection in elevator landings, public corridors, and on the corridor or floor side of each exit stairway.

**EXCEPTION:** Where a corridor has an approved automatic sprinkler system, smoke detectors may be omitted from the corridor.

There shall be electrically supervised automatic smoke detectors within 50 feet of building perimeter walls and at standard spacing (approximately 30 feet) to the center of the floor.

- EXCEPTIONS:**
1. Interior of residential units.
  2. Floors which have an approved automatic sprinkler system.
  3. Parking garages.
  4. Building Mechanical Spaces.
  5. Any space above the top occupied floor.

**19306.3 Rooms without sprinklers.** There shall be electrically supervised automatic heat or smoke detection in rooms used for storage, shops, handicraft, janitor, trash and similar purposes

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1 where the fuel load may be significantly higher than the average floor fuel load and no  
2 automatic sprinkler system exists.

- 3 **EXCEPTIONS:** 1. Rooms with an approved automatic sprinkler system.  
4 2. Rooms under 10 square feet opening onto exit corridors.  
5 3. Rooms under 100 square feet not opening onto exit corridors.  
6 4. Rooms within residential units.  
7 5. Rooms where the storage is in closed metal containers.  
8 6. Rooms other than those opening onto a corridor and within 30 ft. of an electrically  
9 supervised automatic smoke detector.

10 **19306.4 Audibility.** Alarm systems shall have audible devices producing a slow "whoop" sound  
11 audible at 15 dBA above ambient sound levels with a minimum of 60 dBA throughout  
12 residential occupancies, and 10 dBA above ambient sound levels with a minimum of 55 dBA  
13 throughout other occupancies, and shall have a microphone capable of making voice  
14 announcements simultaneously to all floors.

15 The alarm shall sound at a minimum on the floor where the fire is occurring and the floor  
16 above, and the alarm system shall be capable of sounding a general alarm throughout the high  
17 rise building. The alarm system shall be designed so that a general alarm may be activated  
18 from two separate locations.

19  
20 **19306.4.1 Zones.** Fire alarm systems shall be zoned per floor.

21  
22 **19306.4.2 Panels.** There shall be an annunciator panel in the main lobby of a high rise  
23 building or in such other areas approved by the Chief as an emergency control center.

24  
25 **19306.5 Automatic sprinklers.** Where an automatic sprinkler system has been installed for fire  
26 protection, the water flow alarm shall be connected to the building fire alarm.

27  
28 **EXCEPTION:** Where automatic smoke detectors are installed in the area and zoned, a  
single water flow alarm may be used.

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1 **19306.6 Elevator shafts.** For purposes of Section 19306, wiring for fire alarm and fire  
2 detection systems may be installed in elevator shafts, provided that:

- 3 1. Such wiring shall not interfere with the safe operation of the elevator.  
4 2. Such wiring shall be enclosed within metal conduit and all junction boxes shall be located  
5 outside the shaft.  
6 3. All wiring work shall be done under applicable permit obtained from the Department of  
7 Construction and Land Use.

8 **19306.7 Elevator recall.** A fire alarm originating on a floor other than the main lobby floor  
9 shall cause all elevators to be returned to the main floor in accordance with Chapter 30 of the  
10 Seattle Building Code. Whenever new elevator controllers are installed, they shall meet  
11 provisions of the current Building and Elevator Codes. Newly installed controllers shall have  
12 the capability of selecting alternate recall floors.

13  
14 **EXCEPTION:** Freight elevators with manually operated doors.

15  
16 **SECTION 19307 -- EMERGENCY POWER**

17 **19307.1 General.** High-rise buildings not meeting the Building Code in effect at the time of  
18 the adoption of this article shall have, as a minimum, emergency power as follows:

- 19 1. Stairway pressurization emergency power shall be provided by an on-site diesel engine  
20 generator set. Such power shall start automatically on fire alarm and the generator set  
21 shall have a two-hour fuel supply.  
22 2. Exit signs and pathway illumination shall have emergency power by trickle charged storage  
23 batteries. Such batteries shall have a capacity to provide required illumination for 90  
24 minutes.  
25 3. Fire alarm emergency power shall be provided as required in Section 19306.

26 **SECTION 19308 -- SIGN REQUIREMENTS**

27 **19308.1 General.** All signs in this section shall be approved by the Chief and have graphic  
28 symbols where possible. In hotels, signs must have graphic symbols. Sign lettering shall follow  
Appendix I-C of the Fire Code.

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1 A sign shall be posted on the room side of every hotel guest room indicating the relationship of  
2 that room to the exits and fire extinguishers, and giving basic information on what to do in the  
3 event of fire in the building.

4 **19308.2 Stairs.** Signs shall be provided on the stairway side of every stair door indicating the  
5 number of the stair, the floor that the door serves, the high-rise building re-entry points, and  
6 stair termination.

7  
8 **19308.3 Elevators.** A sign shall be posted in every elevator lobby above each call switch noting  
9 that the elevators will be recalled to the building lobby on fire alarm. This sign shall warn  
10 persons not to use the elevator in the event of fire and direct them to use the stairway.

11  
12 Where exit signs are not visible from the elevator lobby, signs shall be installed to  
13 indicate the direction to stair and fire escape exits.

14  
15 **19308.4 Emergency illumination.** Emergency illumination shall be provided at the elevator  
16 lobby sign location.

17  
18 **19308.5 Exit identification.** "NOT AN EXIT" signs shall be installed at all doorways,  
19 passageways, or stairways which are not exits, exit accesses or exit discharges, and which may be  
20 mistaken for an exit. A sign  
21 indicating the use of the doorway, passageway, or stairway, such as "to basement," "storeroom,"  
22 or "linen closet," is permitted in lieu of the "NOT AN EXIT" sign.

23 **SECTION 19309 -- EMERGENCY PREPAREDNESS**

24 **19309.1 Emergency plan.** Owners of high-rise buildings shall prepare an emergency operations  
25 plan in accordance with Section 403 of the Building Code. In addition to the requirements of  
26 Section 403 of the Building Code, the emergency operations plan shall specify the duties during  
27 a fire emergency of the building management and staff, the building fire safety directors, the  
28 fire fighting unit and floor wardens as identified in Section 19309.2.

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**19309.2 Building staff training.** Owners of high-rise buildings shall designate from existing staff a building fire safety director and a building fire fighting unit who shall be responsible for the operation of the building fire protection equipment and first aid fire fighting. Owners of high-rise buildings and/or tenants employing over 100 persons shall designate a floor warden for each floor to be responsible for evacuating the people on their respective floor in emergencies. The names and work locations of the director, the fire fighting unit and the floor wardens shall be maintained on a roster contained in the building emergency operations plan.

**EXCEPTIONS:** 1. Residential condominiums and apartment occupancies not employing staff.

2. Office and retail occupancies after normal business hours.

**NOTE:** In residential buildings employing staff, where there are not enough staff to appoint a floor warden for each floor, wardens shall be appointed to the fire floor, the floor above and as many additional floors as possible. In buildings where only one staff person is available, that person will be the Fire Safety Director.

**19309.3 Fire drills.** The staff of high-rise buildings shall conduct, and the occupants thereof shall participate in, fire drills on a regular basis at intervals not to exceed 120 days in accordance with the building's emergency operations plan.

**EXCEPTION:** Jail inmates, hospital patients, hotel guests and occupants of apartment or residential condominium units, unless such occupant is also a member of the high-rise building staff.

Section 132. Appendix III-B of the Uniform Fire Code is hereby repealed. The Appendix of the Uniform Fire Code, 1994 Edition, is amended by adding thereto a new Appendix III-B to read as follows:

#### APPENDIX III-B

#### INSTALLATION, MAINTENANCE AND SERVICING FIRE AND LIFE SAFETY SYSTEMS AND EQUIPMENT

##### 1. INTENT

It is the intent of this section to insure that fire and life safety systems and equipment are

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1 installed, serviced and maintained by individuals, businesses and firms which are qualified  
2 to perform such work in accordance with this Code, administrative rulings and adopted  
3 standards.

4 **2. SCOPE**

5 This section shall apply to all persons, businesses or firms engaged in the business of  
6 installing, maintaining, or servicing fire and life safety systems and equipment.

7 **EXCEPTIONS:**

- 8 (a) Firms or persons engaged exclusively in the business of installing or servicing fire and  
9 life safety systems or equipment on aircraft, vehicles or vessels.
- 10 (b) Members of the Fire Department engaged in servicing fire department equipment.
- 11 (c) Employees of Federal Government engaged in servicing equipment owned by the  
12 Federal Government.
- 13 (d) Employees of State Government engaged in servicing and testing of equipment  
14 installed for the protection of public rights of way.
- 15 (e) Insurance Rating Associations and building owners engaged in testing of fire and life  
16 safety equipment and systems when such testing is not required by this Code or  
17 administrative ruling.
- 18 (f) Any person who services only their own fire extinguisher(s) for their own use, provided  
19 such extinguisher(s) are not required by any statute, code or regulation.
- 20 (g) This section shall not apply to fire protection systems installed in single family  
21 dwellings unless such systems are required by Code or Administrative Ruling.

22 This section shall not prohibit the maintenance and servicing of fire and life safety systems or  
23 equipment by new employees for a period not to exceed 90 days after the beginning of  
24 employment or until the next available certification test is administered, whichever occurs first.  
25 Provided, such servicing or maintenance is conducted in the presence and under the direct  
26 supervision of another employee who holds a valid certificate for the type of work being  
27 performed. A new employee may not perform work on fire and life safety systems or  
28 equipment after the completion of the 90 day period unless s/he holds a valid certificate.

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1 This section shall not prohibit the installation, maintenance, repair and servicing of fire and life  
2 safety systems or equipment by individuals enrolled in a recognized apprenticeship program.

3 Provided, such servicing or maintenance is conducted in the presence and under the direct  
4 supervision of another employee who holds a valid certificate for the type of work being  
5 performed. Individuals who are apprentices must provide evidence of their apprentice program  
6 enrollment and program completion date.

7 **3. DEFINITIONS**

8 For the purposes of this section the following words and terms have the meanings indicated  
9 below:

10 **Certificate.** A document issued by the Fire Chief to a person who has passed the  
11 prescribed examination which grants conditional permission to perform the acts described  
12 on the document.

13 **Engineered System.** A system of components requiring design to determine flow rates,  
14 nozzle pressures, quantities of chemicals, fluids or gases, the number or type of nozzles and  
15 their placement in a specific system.

16 **Fire Alarm System.** A system of electrical devices such as flow sensors, heat or smoke  
17 detectors which is designed and installed for the purpose of warning building occupants or  
18 the Fire Department of a fire or of causing the operation of other fire and life safety  
19 equipment. The term shall include associated electrical wiring, power supplies, supervisory  
20 and control circuits.

21 **Fire and Life Safety Equipment And Systems.**

22 Automatic sprinkler systems, engineered and pre-engineered fixed extinguishing systems,  
23 automatic fire alarm systems including smoke and heat detection systems, standpipe  
24 systems including fire pump systems, smoke control systems and alarm and supervisory  
25 systems or other appurtenances attached to any of the above listed systems. The term also  
26 includes portable fire extinguishers required by this Code. The term does not include  
27 residential smoke detectors or portable fire extinguishers which are not required by this  
28 Code.

**Fixed Fire Extinguishing System.** An engineered or pre-engineered system which is  
designed and affixed for the protection of a specific hazard.

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**Maintenance.** Repair service, including periodic inspections and tests required to keep fire and life safety systems and equipment in an operative condition at all times, including the replacement of the system or component parts when they become undependable or inoperative. The term also means the disassembly of an extinguisher or extinguishing system and a complete check of all working parts and all parts which have a bearing on the performance of the extinguisher or system to insure integrity.

**Portable Fire Extinguisher.** Any approved device capable of being moved from place to place which contains dry chemicals, fluids or gases for the purpose of extinguishing fires and the means for application of its contents.

**Pre-Engineered System.** A packaged system of components designed to be installed according to pre-tested limitations as listed by a nationally recognized testing laboratory, or approved by the Chief.

**Service and Servicing.** Maintenance of portable fire and life safety systems or equipment in accordance with applicable standards.

**Automatic Sprinkler System.** An integrated system of piping connected to a water supply, including associated controlling valves and alarm and supervisory equipment, which will automatically initiate a discharge of water when one of its heat-actuated elements is heated to or above its thermal rating.

4. **CERTIFICATE REQUIRED**

No person shall engage in the business of installing, servicing or maintaining fire and life safety systems and equipment unless they have obtained a certificate from the Chief or are specifically exempted from this section.

Certificates shall remain valid for a period of time not to exceed three (3) years unless suspended or revoked by the Chief.

The Chief is authorized to recognize certificates or licenses issued by the State Fire Marshal, other Fire Departments or similar authorities, provided, such certificates establish qualifications of the holder in a manner similar to this section and to the satisfaction of the Chief.

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1 The Chief shall maintain a list of all individuals, firms and businesses which have applied for or  
2 received a certificate together with a record of the results of any examinations, hearings or  
3 investigations related thereto. Such lists and records shall be made available to the public upon  
4 request.

5 **5. TYPES OF CERTIFICATES**

- 6 Type AS-1 Installation, service and maintenance of automatic sprinkler systems in  
7 any type of building.
- 8 Type AS-2 Installation, service and maintenance of automatic sprinkler systems  
9 up to four (4) stories.
- 10 Type AS-3 Install only.
- 11 Type CT-1 Confidence Testing of specific fire and life safety systems or  
12 equipment in any building.
- 13 Type CT-2 Confidence testing of fire and life safety systems in a specific  
14 building(s).
- 15 Type E-1 Installation, service and maintenance of foam fire extinguishing systems in any  
16 occupancy.
- 17 Type E-2 Installation, service and maintenance of carbon dioxide fire extinguishing  
18 systems in any occupancy.
- 19 Type E-3 Installation, service and maintenance of engineered halon or replacement agent  
20 fire extinguishing systems in any occupancy.
- 21 Type E-4 Installation, service and maintenance of engineered dry/wet chemical fire  
22 extinguishing systems in any occupancy.
- 23 Type EG-1 Installation, service and maintenance of emergency generators in any type of  
24 building.
- 25 Type EG-2 Testing of emergency generators in a specific building.
- 26 Type FA-1 Test and service of automatic fire alarm systems in any type of building.
- 27 Type FA-2 Test and service of automatic fire alarm systems in any type of building except  
28 high-rise, hospitals and public assemblies over 300 persons.
- Type FA-3 Test and service of automatic fire alarm systems in buildings up to four (4)  
stories; except hospitals and public assemblies over 300.

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- Type FP-1 Installation, service and maintenance of fire pumps and controllers in any building.
- Type FP-2 Testing of fire pumps and controllers in a specific building.
- Type FEX-1 All activities relating to portable fire extinguishers including those listed in Types FEX-2, FEX-3, and FEX-4.
- Type FEX-2 Service, charge, recharge, inspect, or install portable fire extinguishers.
- Type FEX-3 Hydrostatic testing of fire extinguisher cylinders.
- Type FEX-4 Annual external examination of CO<sub>2</sub> or stored pressure fire extinguishers equipped with pressure indicators or gauges.
- Type SC-1 Installation, service and maintenance of smoke control systems.
- Type SC-2 Test and service of shaft pressurization systems.
- Type STP-1 Install, service and maintain Class I, II and III standpipes in any occupancy.
- Type STP-2 Install, service and maintain Class II standpipes in any occupancy (includes marine standpipes).

**6. QUALIFICATIONS AND EXAMINATIONS FOR CERTIFICATES**

Applicants for a certificate shall provide evidence that they have completed a course of instruction and training in the applicable type of system or equipment. Such evidence may include professional degrees, State licenses, training certificates from manufacturers, completion of apprenticeship programs or similar materials acceptable to the Chief.

**EXCEPTION:** Applicants for Type CT-2 and FEX-4 Certificates.

Applicants shall submit evidence that they possess necessary licenses, tools, or test equipment required for the type of work to be performed.

All applicants for a certificate shall pass a written examination given by the Chief. Such examinations shall be designed to test the applicant's qualifications to hold the type of certificate for which application has been made. Such examinations may be supplemented by practical tests or demonstrations necessary to determine the applicant's knowledge or ability.

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A list of information resources recommended to pass the examinations for certificates shall be provided by the Chief.

**7. SERVICE LABELS**

A service label conforming to this section shall be securely attached to each fire and life safety system or item of fire and life safety equipment at the time of installation, service or maintenance. The label shall be of the self-adhesive type or the wire-hanging type. Self-adhesive labels shall be manufactured in accordance with U. L. Standard 969, Marking and Labeling systems.

The label shall be placed as follows:

- Emergency Generators . . . . . On the control panel.
- Engineered Systems . . . . . On the agent supply tank or pull device.
- Fire Alarm Systems . . . . . On the Fire Alarm Panel or at power supply, if no panel.
- Fire Escapes . . . . . On or adjacent to the lowest landing.
- Fire Pumps . . . . . On the control panel.
- Pre-Engineered Systems . . . . . On the agent supply tank or pull device.
- Portable Fire Extinguishers . . . . . On the control valve of the extinguisher, or cylinder.
- Smoke Control Systems . . . . . On the manual control panel, or lowest fan if no panel is installed.
- Sprinkler Systems . . . . . On or adjacent to the sprinkler control valve.
- Standpipe Systems . . . . . On or adjacent to the lowest outlet.

The following format shall be used for all service labels:

DO NOT REMOVE  By Order of the Fire Chief	Year	Month	Next Due Date
	Firm		
	Address		
	Phone		
	Serviced by:		
Certificate NO.			
Description of work:			

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The following information shall be printed on service labels:

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1. The words "**DO NOT REMOVE BY ORDER OF THE FIRE CHIEF.**"
2. Name of the business or firm.
3. Address of the business or firm.
4. Telephone number of the business or firm.
5. Date that work was performed.
6. Signature of person performing work.
7. Description of work performed.

**8. CERTIFICATE NUMBER OF PERSON PERFORMING WORK**

When performing installation, service or maintenance, the date of work, name of firm, and the signature and certificate number of the person performing the work shall be placed on the service label.

No person shall remove a service label from, or place a service label on, a fire and life safety system or item of fire and life safety equipment except when installation, service or maintenance is performed. A new label shall be attached whenever service or maintenance is performed.

No person shall deface, modify or alter any service label attached to or required to be attached to any fire and life safety system or item of fire and life safety equipment.

**9. DENIAL, REVOCATION AND SUSPENSION OF CERTIFICATES**

The Chief may refuse to issue, renew, or may suspend or revoke any certificate if he determines that an applicant for or holder of a certificate has:

1. Obtained or attempted to obtain a certificate by fraud or misrepresentation.
2. Has installed, maintained, or serviced a fire and life safety system or item of fire and life safety equipment in violation of this Code, administrative ruling, or adopted standard.
3. Refused to allow inspection by the Chief or his authorized representative.
4. The applicant for a certificate does not possess the qualifications to conduct the

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1 operation for which application is made as demonstrated by written and/or practical  
2 examination.

- 3 5. The applicant for a certificate does not possess the proper facilities to conduct  
4 operations for which application is made.

5 Individuals whose certificates have been denied, suspended or revoked shall be so notified in  
6 writing and may request a hearing by the Chief in accordance with Section 105.7 of the Seattle  
7 Fire Code. After such hearing, the Chief shall consider the facts and circumstances surrounding  
8 the case and shall render his decision in writing. The decision of the Chief shall be final with  
9 regard to whether or not the certificate shall be denied, suspended or revoked.

10  
11 In the event the State of Washington adopts legislation or rules which in the opinion of the  
12 Chief meets the intent and scope of this appendix, such legislation will supersede Appendix III-  
13 B of the Seattle Fire Code, Ordinance No.\_\_\_\_\_. Such State legislation or rule must  
14 contain specific examination procedures and certificates for all persons who install, repair,  
15 maintain and service fire and life safety systems and equipment.

16 Section 133. Appendix IV A of the Uniform Fire Code, 1994 Edition is amended to read as  
17 follows:

18 **Division IV**  
19 **SPECIAL COMBUSTION HAZARDS**  
20 **APPENDIX IV A**  
21 **INTERIOR FLOOR FINISH**  
22 **(See U.F.C. Section 1101.1)**

23 **SECTION 1 -- SCOPE**

24  
25 Exposed floor surfaces of buildings, including coverings which are applied over a previously  
26 finished floor, shall be in accordance with Appendix IV-A.

27  
28 **EXCEPTION:** Interior floor finish materials of a traditional type, such as wood, vinyl,  
linoleum, terrazzo and other resilient floor-covering materials.

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## SECTION 2 -- GENERAL

1 Interior floor finish materials determined by the Chief to represent an unusual hazard shall  
2 meet the classification prescribed for the occupancy groups listed in Table A-IV-A-1 when  
3 tested in accordance with Section 3.

4 **EXCEPTION:** When an approved automatic sprinkler system with fast response sprinklers  
5 is installed, Class 2 materials are allowed to be used in areas where Class 1 materials are  
6 required and the materials need not be classified in areas where Class 2 materials are  
7 required.

## SECTION 3--TESTING AND CLASSIFICATION OF MATERIALS

8  
9 **3.1 Testing.** Critical radiant flux values of interior floor finishes shall be established by tests  
10 conducted by an approved testing agency in accordance with procedures specified within  
11 nationally recognized standards. NFPA Standard 253 is an example of such standards.

### 12 **3.2 Classification.**

13 **3.2.1 General.** Interior floor finish materials shall be classified in accordance with the  
14 following:

- 15 1. Class 1 interior floor finish. Materials having a minimum critical radiant flux of 0.45  
16 watt per square centimeter.
- 17 2. Class 2 interior floor finish. Materials having a minimum critical radiant flux of 0.22  
18 watt per square centimeter.

19 **3.3 Test Report Availability.** A copy of the test report identifying and representing the style to  
20 be installed shall be provided to the Chief upon request. The test report shall identify the  
21 interior floor finish by manufacturer or supplier and the style name. The test report shall be  
22 representative of the current construction of the material to be installed.

23 **3.4 Identification.** The interior floor finish material shall be identified by a hang tag or other  
24 suitable method as to manufacturer or supplier, and style, and shall indicate the classification of  
25 the material based upon the limits specified within Section 2.

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TABLE A-IV-A-1--INTERIOR FLOOR FINISH REQUIREMENTS

OCCUPANCY	CLASS	
	Required Exits and Passageways <sup>1</sup>	Corridors Providing Exit Access <sup>4</sup>
Group A <sup>3</sup>	2	2
Group B	2	2
Group E <sup>3</sup>	2	2
Group F	2	2
Group H <sup>1, 6</sup>	1	1
Group H <sup>7</sup>	2	2
Group I <sup>2, 3</sup>	1	1
Group M	2	2
Group R, Division 1	2	2
Group S	2	2

- <sup>1</sup> Combustible floor finish (~~shall not be used~~) is not permitted for ((or)) stairs in Types I and II construction except for stairs of combustible construction which are permitted by either Section 602.4 or 603.4 (Building Code), where finishes are not restricted ((or other types of construction for buildings exceeding three stories in height)).
- <sup>2</sup> Combustible floor finish shall not be used in rooms occupied by inmates or patients whose personal liberties are restrained.
- <sup>3</sup> Carpeting in rooms located in Groups A, F, and I-2 shall be Class 2. Carpeting in rooms located in Group I-1.1 nursing homes and hospitals shall be Class 1.
- <sup>4</sup> Incidental carpeting less than 100 sq. ft. on a non-combustible surface may be Class 3.

Section 134. Appendix I-A of the Uniform Fire Code is hereby repealed.

Section 135. Appendix I-B of the Uniform Fire Code is hereby repealed.

Section 136. Appendix II-G of the Uniform Fire Code is hereby repealed.

Section 137. Appendix II-H of the Uniform Fire Code is hereby repealed.

Section 138. Appendix II-I of the Uniform Fire Code is hereby repealed.

Section 139. Appendix III-D of the Uniform Fire Code is hereby repealed.

Section 140. Appendix VI-C of the Uniform Fire Code is hereby repealed.

Section 141. Appendix VI-D of the Uniform Fire Code is amended by adding thereto the reference tables from the Seattle Building Code.

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Section 142. This ordinance shall take effect and be in force thirty (30) days from and after its approval by the Mayor, but if not approved and returned by the Mayor within ten (10) days after presentation, it shall take effect as provided by Municipal Code Section 1.04.020.

Passed by the City Council the \_\_\_\_ day of \_\_\_\_\_, 1996, and signed by me in open session in authentication of its passage this \_\_\_\_ day of \_\_\_\_\_, 1996.

\_\_\_\_\_  
President \_\_\_\_\_ of the  
City Council

Approved by me this \_\_\_\_ day of \_\_\_\_\_, 1996.

\_\_\_\_\_  
Mayor

Filed by me this \_\_\_\_ day of \_\_\_\_\_, 1996.

\_\_\_\_\_  
City Clerk

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# City of Seattle

Executive Department—Office of Management and Planning

Thomas M. Tierney, Director  
Norman B. Rice, Mayor

February 2, 1996

The Honorable Mark Sidran  
City Attorney  
City of Seattle

Dear Mr. Sidran:

The Mayor is proposing to the City Council that the enclosed legislation be adopted.

REQUESTING  
DEPARTMENT      Fire

SUBJECT:            AN ORDINANCE relating to regulating fire and explosion hazards;  
and amending the Uniform Fire Code, 1994 Edition, as adopted by  
reference by Ordinance \_\_\_\_\_.

Pursuant to the City Council's S.O.P. 100-014, the Executive Department is forwarding this request for legislation to your office for review and drafting.

After reviewing this request and any necessary redrafting of the enclosed legislation, return the legislation to OMP. Any specific questions regarding the legislation can be directed to Peter Harris at 684-8368.

Sincerely,

Norman B. Rice  
Mayor

by

Tom Tierney, Director

legis:harris2

Enclosure



*Approved by  
Mark Sidran  
2/7/96*

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MAIL FILE CITY ATTORNEY

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STATE OF WASHINGTON - KING COUNTY

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City of Seattle, City Clerk

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No. ORDINANCE IN

Affidavit of Publication

The undersigned, on oath states that he is an authorized representative of The Daily Journal of Commerce, a daily newspaper, which newspaper is a legal newspaper of general circulation and it is now and has been for more than six months prior to the date of publication hereinafter referred to, published in the English language continuously as a daily newspaper in Seattle, King County, Washington, and it is now and during all of said time was printed in an office maintained at the aforesaid place of publication of this newspaper. The Daily Journal of Commerce was on the 12th day of June, 1941, approved as a legal newspaper by the Superior Court of King County.

The notice in the exact form annexed, was published in regular issues of The Daily Journal of Commerce, which was regularly distributed to its subscribers during the below stated period. The annexed notice, a

CT:ORD 118018

was published on

03/05/96

The amount of the fee charged for the foregoing publication is the sum of \$ \_\_\_\_\_, which amount has been paid in full.

Subscribed and sworn to before me on  
03/07/96  
X. *[Signature]*

Notary Public for the State of Washington,  
residing in Seattle

Affidavit of Publication

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