

Ordinance No. 124580

Council Bill No. 118175

AN ORDINANCE relating to the 2012 Seattle Fire Code as adopted by Chapter 22.600.020 of the Seattle Municipal Code; amending and adding various provisions to that Fire Code all as regulated and allowed by the State Building Code Act, Chapter 19.27 of the Revised Code of Washington.

Related Legislation File: _____

Date Introduced and Referred: <u>8/11/14</u>	To: (committee): <u>Public Safety, Civil Rights, and Technology</u>
Date Re-referred:	To: (committee):
Date Re-referred:	To: (committee):
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The City of Seattle – Legislative Department

Council Bill/Ordinance sponsored by: Bruce C. Hull

Committee Action:

Date	Recommendation	Vote
<u>9/17/14</u>	<u>Pass</u>	<u>BH, NL</u>

This file is complete and ready for presentation to Full Council. _____

Full Council Action:

Date	Decision	Vote
<u>Sept. 22, 2015</u>	<u>Passed</u>	<u>9-0</u>

Law Department

CITY OF SEATTLE
ORDINANCE 124580
COUNCIL BILL 118175

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4 AN ORDINANCE relating to the 2012 Seattle Fire Code; as adopted by Chapter 22.600.020 of
5 the Seattle Municipal Code; amending and adding various provisions to that Fire Code all as
6 regulated and allowed by the State Building Code Act, Chapter 19.27 of the Revised Code of
7 Washington.

8 WHEREAS, the Seattle Fire Department and the Seattle Fire Code Advisory Board have
9 reviewed and approved the additions and revisions to the 2012 Seattle Fire Code
10 contained herein; and

11 WHEREAS, the additions and revisions to the 2012 Seattle Fire Code contained herein either
12 address a state requirement, clarify a code interpretation, or correct an error or omission
13 which occurred at the adoption of the 2012 Seattle Fire Code; NOW, THEREFORE,

14 **BE IT ORDAINED BY THE CITY OF SEATTLE AS FOLLOWS:**

15 Section 1. Section 105 of the 2012 Seattle Fire Code is amended as follows:

16 **105.6.48 Temporary assembly occupancy.** An operational permit is required to use any
17 building or structure, or portion thereof other than established Group A occupancies for assembly
18 purposes or where temporary alterations are made to the existing means of egress, character, or
19 use of any building or facility where the occupant load is more than 50 persons. Plans shall be
20 submitted to the fire code official at least 30 days prior to the event where temporary alterations
21 are made to the existing means of egress. The number of such permits for any building or
22 structure, or portion thereof, is limited to one per quarter. Additional permits may be issued
23 where application for a change of use for the building or structure, or portion thereof, has been
24 submitted to the Department of Planning (DPD) with the approval of DPD.
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[A] 105.7.13 Solar photovoltaic power systems. A construction permit is required to install or modify solar photovoltaic power systems.

* * *

Section 2. Section 202 of the 2012 Seattle Fire Code is amended as follows:

[W] CLUSTER. Clusters are multiple portable school classrooms separated by less than the requirements of the building code for separate buildings.

* * *

HELIPAD. A structural surface that is used for landing, taking off, taxiing and parking of helicopters.

* * *

[W] PORTABLE SCHOOL CLASSROOM. A prefabricated structure consisting of one or more rooms with direct exterior egress from the classroom(s). ((A)) The structure ((;)) is transportable in one or more sections, ((which requires a chassis to be transported)) and is designed to be used as an educational space with or without a permanent foundation. The structure shall be ((trailerable and)) capable of being demounted and relocated to other locations as needs arise.

* * *



Section 3. Section 603 of the 2012 Seattle Fire Code is amended as follows:

603.4.2.3 Gas containers. Fuel gas containers for portable outdoor gas-fired heating appliances shall comply with Sections 603.4.2.3.1 through 603.4.2.3.4.

603.4.2.3.1 Approved containers. Only approved DOTn or ASME gas containers shall be used.

603.4.2.3.2 Container replacement. Replacement of fuel gas containers in portable outdoor gas-fired heating appliances shall not be conducted while the public is present.

603.4.2.3.3 Container capacity. The maximum individual capacity of gas containers used in connection with portable outdoor gas-fired heating appliances shall not exceed 20 pounds (9 kg).

603.4.2.3.4 Indoor storage prohibited. Gas containers shall ~~((not))~~ be stored ~~((inside))~~ outside of buildings ~~((except))~~ in accordance with ~~((Section 6109.9))~~ the provisions of Sections 6109.12 through 6109.15.

* * *

Section 4. Section 605.11 of the 2012 Seattle Fire Code is amended as follows:

[W] 605.11 Solar photovoltaic power systems. Installation, modification, or alteration of solar photovoltaic power systems shall be in accordance with Sections 605.11.1 through 605.11.4, the International Building Code and NFPA 70.

Exception: Detached, nonhabitable Group U structures shall not be subject to the requirements of Sections 605.11.2 through 605.11.3.3.3.



1 **605.11.1 Marking.** Marking is required on interior and exterior direct-current (DC) conduit,
2 enclosures, raceways, cable assemblies, junction boxes, combiner boxes and disconnects.

3 **605.11.1.1 Materials.** The materials used for marking shall be reflective, weather
4 resistant and suitable for the environment. Marking as required in Sections 605.11.1.2
5 through 605.11.1.4 shall have all letters capitalized with a minimum height of 3/8 inch
6 (9.5 mm) white on red background.

7 **[W] 605.11.1.2 Marking content.** The marking shall contain the words
8 “PHOTOVOLTAIC POWER SOURCE.”

9 **605.11.1.3 Main service disconnect.** The marking shall be placed adjacent to the main
10 service disconnect in a location clearly visible from the location where the disconnect is
11 operated.

12 **605.11.1.4 Location of marking.** Marking shall be placed on interior and exterior DC
13 conduit, raceways, enclosures and cable assemblies every 10 feet (3048 mm), within 1
14 foot (305 mm) of turns or bends and within 1 foot (305 mm) above and below
15 penetrations of roof/ceiling assemblies, walls or barriers.

16 **[W] 605.11.2 Locations of DC conductors.** Conduit, wiring systems, and raceways for
17 photovoltaic circuits shall be located as close as possible to the ridge or hip or valley and from
18 the hip or valley as directly as possible to an outside wall to reduce trip hazards and maximize
19 ventilation opportunities. Conduit runs between sub arrays and to DC combiner boxes shall be
20 installed in a manner that minimizes the total amount of conduit on the roof by taking the
21 shortest path from the array to the DC combiner box. The DC combiner boxes shall be located
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1 such that conduit runs are minimized in the pathways between arrays. DC wiring shall be
2 installed in metallic conduit or raceways when located within enclosed spaces in a building.

3 **605.11.3 Access and pathways.** Roof access, pathways, and spacing requirements shall be
4 provided in accordance with Sections 605.11.3.1 through 605.11.3.3.3.

5 **Exception:**

6 1. Residential structures shall be designed so that each photovoltaic array is no greater
7 than 150 feet (45720 mm) by 150 feet (45720 mm) in either axis.

8 **605.11.3.1 Roof access points.** Roof access points shall be located in areas that do not
9 require the placement of ground ladders over openings such as windows or doors, and
10 located at strong points of building construction in locations where the access point does
11 not conflict with overhead obstructions such as tree limbs, wires, or signs.

12 **[W] 605.11.3.2 Residential systems for one- and two- family dwellings.** Access to
13 residential systems for one- and two-family dwellings shall be provided in accordance with
14 Sections 605.11.3.2.1 through 605.11.3.2.4.

15 **Exceptions:**

- 16 1. Residential dwellings with an approved automatic fire sprinkler system installed.
17
18 2. These requirements shall not apply to roofs where the total combined area of the solar
19 array does not exceed thirty-three percent as measured in plan view of the total roof
20 area of the structure, where the solar array will measure 1,000 sq. ft. or less in area, and
21 where a minimum eighteen inches unobstructed pathway shall be maintained along each
22 side of any horizontal ridge.
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1 **605.11.3.2.1 Residential buildings with hip roof layouts.** Panels/modules installed on
2 residential buildings with hip roof layouts shall be located in a manner that provides a 3-
3 foot-wide (914 mm) clear access pathway from the eave to the ridge on each roof slope
4 where panels/modules are located. The access pathway shall be located at a structurally
5 strong location on the building capable of supporting the live load of fire fighters
6 accessing the roof.

7 **Exception:** These requirements shall not apply to roofs with slopes of two units
8 vertical in 12 units horizontal (2:12) or less.

9 **605.11.3.2.2 Residential buildings with a single ridge.** Panels/modules installed on
10 residential buildings with a single ridge shall be located in a manner that provides two, 3-
11 foot-wide (914 mm) access pathways from the eave to the ridge on each roof slope where
12 panels/modules are located.

13 **Exception:** This requirement shall not apply to roofs with slopes of two units vertical
14 in 12 units horizontal (2:12) or less.

15 **[W] 605.11.3.2.3 Residential buildings with roof hips and valleys.** Panels/modules
16 installed on residential buildings with roof hips and valleys shall be located no closer than
17 18 inches (457 mm) to a hip or a valley where panels/modules are to be placed on both
18 sides of a hip or valley. Where panels are to be located on only one side of a hip or
19 valley, the panels shall be permitted to be placed directly adjacent to the hip or valley.

20 **Exception:** These requirements shall not apply to roofs with slopes of two units
21 vertical in 12 units horizontal (2:12) or less.



1 **605.11.3.2.4 Residential building smoke ventilation.** Panels/modules installed on
2 residential buildings shall be located no higher than 18 inches below the ridge in order to
3 allow for fire department smoke ventilation operations.

4 **605.11.3.3 Other than residential buildings.** Access to systems for occupancies other
5 than one- and two- family dwellings shall be provided in accordance with Sections
6 605.11.3.3.1 through 605.11.3.3.3.

7 **Exception:** Where it is determined by the fire code official that the roof configuration is
8 similar to that of a one- or two-family dwelling, the residential access and ventilation
9 requirements in Sections 605.11.3.2.1 through 605.11.3.2.4 shall be permitted to be used.

10 **605.11.3.3.1 Access.** There shall be a minimum 6- foot-wide (1829 mm) clear perimeter
11 around the edges of the roof.

12 **Exception:** Where either axis of the building is 250 feet (76 200 mm) or less, there
13 shall be a minimum 4-foot-wide (1290 mm) clear perimeter around the edges of the
14 roof.

15 **605.11.3.3.2 Pathways.** The solar installation shall be designed to provide designated
16 pathways. The pathways shall meet the following requirements:

17 1. The pathway shall be over areas capable of supporting the live load of fire fighters
18 accessing the roof.

19 2. The centerline axis pathways shall be provided in both axes of the roof. Centerline
20 axis pathways shall run where the roof structure is capable of supporting the live load of
21 fire fighters accessing the roof.



1 3. Shall be a straight line not less than 4 feet (1290 mm) clear to skylights or ventilation
2 hatches.

3 4. Shall be a straight line not less than 4 feet (1290 mm) clear to roof standpipes.

4 5. Shall provide not less than 4 feet (1290 mm) clear around roof access hatch with at
5 least one not less than 4 feet (1290 mm) clear pathway to parapet or roof edge.

6 **605.11.3.3 Smoke ventilation.** The solar installation shall be designed to meet the
7 following requirements:

8 1. Arrays shall be no greater than 150 feet (45720 mm) by 150 feet (45 720 mm) in
9 distance in either axis in order to create opportunities for fire department smoke
10 ventilation operations.

11 2. Smoke ventilation options between array sections shall be one of the following:

12 2.1. A pathway 8 feet (2438 mm) or greater in width.

13 2.2. A 4-foot (1290 mm) or greater in width pathway and bordering roof skylights or
14 smoke and heat vents.

15 2.3. A 4-foot (1290 mm) or greater in width pathway and bordering 4-foot by 8-foot
16 (1290 mm by 2438 mm) "venting cutouts" every 20 feet (6096 mm) on alternating sides
17 of the pathway.

18 **605.11.4 Ground-mounted photovoltaic arrays.** Ground-mounted photovoltaic arrays
19 shall comply with Sections 605.11 through 605.11.2 and this section. Setback requirements
20 shall not apply to ground-mounted, free-standing photovoltaic arrays.

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Section 5. Section 901 of the 2012 Seattle Fire Code is amended as follows:

901.6 Inspection, testing and maintenance. Fire detection, alarm, and extinguishing systems, mechanical smoke exhaust systems, fire hydrant systems, fire standpipe systems, fire pump systems, private fire service mains, and smoke and heat vents shall be maintained in an operative condition at all times, and shall be replaced or repaired where defective. Nonrequired *fire protection systems* and equipment shall be inspected, tested and maintained or removed when approved by the *fire code official*.

~~((901.6.1 Confidence Test. All *Fire protection systems*, including nonrequired systems, shall be confidence tested in accordance with the Administrative Rule 9.02.09 Confidence Test Requirements for Life Safety Systems and any future revisions of this rule adopted by the *fire code official*.)~~

Exceptions:

- ~~1. NFPA 13D sprinkler systems.~~
- ~~2. Single and multiple station smoke alarms.~~
- ~~3. Fire hydrants and fire service mains owned by the City of Seattle.)~~

901.6.1 Standards. *Fire protection systems* shall be inspected, tested and maintained in accordance with Seattle Fire Department Administrative Rule 9.02.14 *Inspection, Testing and Maintenance Requirements for Fire Protection Systems* and any future revisions of this rule adopted by the *fire code official* and also in accordance with the referenced standards listed in Table 901.6.1.

TABLE 901.6.1
FIRE PROTECTION SYSTEM MAINTENANCE STANDARDS

SYSTEM	STANDARD
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Portable fire extinguishers	NFPA 10
Carbon dioxide fire-extinguishing system	NFPA 12
Halon 1301 fire-extinguishing systems	NFPA 12A
Dry-chemical extinguishing systems	NFPA 17
Wet-chemical extinguishing systems	NFPA 17A
Water-based fire protection systems	NFPA 25
Fire alarm systems	NFPA 72
Mechanical smoke exhaust systems	NFPA 204
Smoke and heat vents	NFPA 204
Water-mist systems	NFPA 750
Clean-agent extinguishing systems	NFPA 2001

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8 **901.6.2 Records.** Records of all system inspections, tests and maintenance required by the
9 referenced standards shall be maintained on the premises for a minimum of three years and
10 shall be copied to the *fire code official* upon request. ~~((Additionally, Confidence test~~
11 ~~documentation shall be submitted to the *fire code official* in accordance with Administrative~~
12 ~~Rule 9.02.09, Confidence Test Requirements for Life Safety Systems and any future revisions~~
13 ~~of this rule adopted by the *fire code official*.)~~

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15
16 **901.6.2.1 Records information.** Initial records shall include the name of the installation
17 contractor, type of components installed, manufacturer of the components, location and
18 number of components installed per floor. Records shall also include the manufacturers'
19 operation and maintenance instruction manuals. Such records shall be maintained on the
20 premises.

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23 **901.9. Point of Information**

24 Termination of monitoring service only applies when monitoring contracts expire, or are
25 cancelled
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2 **901.9 Termination of monitoring service.** For fire alarm systems required to be monitored by
3 this code, notice shall be made to the *fire code official* whenever alarm monitoring services are
4 terminated. Notice shall be made in writing, to the *fire code official* by the monitoring service
5 provider being terminated.

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7 * * *

8 Section 6. Section 903 of the 2012 Seattle Fire Code is amended as follows:

9
10 **[W] 903.2.3 Group E.** An *automatic sprinkler system* shall be provided for Group E
11 occupancies. ((as follows:

- 12 1. Throughout all Group E *fire areas* greater than 12,000 square feet (1115 m²) in area.
13
14 2. Throughout every portion of educational buildings below the lowest *level of exit discharge*
15 serving that portion of the building.

16 **Exception:** An *automatic sprinkler system* is not required in any area below the lowest
17 *level of exit discharge* serving that area where every classroom throughout the building has
18 at least one exterior exit door at ground level.))

19
20 **Exceptions:**

- 21 1. Portable school classrooms with an *occupant load* of 50 or less calculated in accordance
22 with Table 1004.1.2, provided that the aggregate area of any cluster of portable school
23 classrooms does not exceed ((5)) 6,000 square feet (((1465 m²))) (557 m²); and clusters of
24 portable school classrooms shall be separated as required in Chapter 5 of the Seattle
25 Building Code((-)); or
26



1 2. Portable school classrooms with an occupant load from 51 through 98, calculated in
 2 accordance with Table 1004.1.2, and provided with two means of direct independent
 3 exterior egress from each classroom in accordance with Ch. 10, and one exit from each
 4 classroom shall be accessible, provided that the aggregate area of any cluster of portable
 5 classrooms does not exceed 6,000 square feet (557 m²), and clusters of portable school
 6 classrooms shall be separated as required by the building code, or

7
 8 3. Group E occupancies with an *occupant load* of 50 or less, calculated in accordance with
 9 Table 1004.1.2.

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 13 **903.2.11.1.3 Basements.** Where any portion of a *basement* is located more than 75 feet (22 860
 14 mm) from openings required by Section 903.2.11.1, (~~or where walls, partitions or other~~
 15 ~~obstructions are installed that restrict the application of water from hose streams,)) the *basement*~~
 16 shall be equipped throughout with an *approved automatic sprinkler system*.

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 18 * * *

19 Section 7. Section 907 of the 2012 Seattle Fire Code is amended as follows:

20 **[W] 907.2.3 Group E.** A manual fire alarm system that initiates the occupant notification signal
 21 utilizing an emergency voice/alarm communication system meeting the requirements of Section
 22 907.5.2.2 and installed in accordance with Section 907.6 shall be installed in Group E
 23 occupancies. When *automatic sprinkler systems* or smoke detectors are installed, such systems or
 24 detectors shall be connected to the building fire alarm system.
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Exceptions:

1
2 1. A manual fire alarm system is not required in Group E occupancies with an *occupant*
3 *load* of ((30)) 50 or less.

4
5 2. Emergency voice/alarm communication systems meeting the requirements of Section
6 907.5.2.2 and installed in accordance with Section 907.6 shall not be required in Group E
7 occupancies with occupant loads of 100 or less, provided that activation of the manual fire
8 alarm system initiates an approved occupant notification signal in accordance with Section
9 907.5.

10
11 3. Manual fire alarm boxes are not required in Group E occupancies where all of the
12 following apply:

13
14 3.1 Interior *corridors* are protected by smoke detectors.

15
16 3.2 Auditoriums, cafeterias, gymnasiums and similar areas are protected by *heat*
17 *detectors* or other *approved* detection devices.

18
19 3.3 Shops and laboratories involving dusts or vapors are protected by *heat detectors* or
20 other *approved* detection devices.

21 4. Manual fire alarm boxes shall not be required in Group E occupancies where the
22 building is equipped throughout with an *approved automatic sprinkler system* installed in
23 accordance with Section 903.3.1.1, the emergency voice/alarm communication system will
24 activate on sprinkler water flow and manual activation. ~~((is provided from a normally~~
25 ~~occupied location.))~~
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* * *

1 [W] 907.2.9.1.1 Group R-2 boarding homes. A manual fire alarm system shall be installed in
2 Group R-2 occupancies where the building contains a boarding home licensed by the state of
3 Washington.

4 **Exception:** In boarding homes licensed by the state of Washington, manual fire alarm boxes
5 in resident sleeping areas shall not be required at exits if located at all constantly attended
6 staff locations, provided such staff locations are visible, continuously accessible, located on
7 each floor, and positioned so no portion of the story exceeds a horizontal travel distance of
8 200 feet to a manual fire alarm box.

9 * * *

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12 **907.2.13.1 Automatic smoke detection.** Automatic smoke detection in *high-rise buildings* shall
13 be in accordance with Sections 907.2.13.1.1 and 907.2.13.1.2.

14
15 **907.2.13.1.1 Area smoke detection.** Area smoke detectors shall be provided in accordance
16 with this section. Smoke detectors shall be connected to an automatic fire alarm system. The
17 activation of any detector required by this section shall activate the emergency voice/alarm
18 communication system in accordance with Section 907.5.2.2. In addition to smoke detectors
19 required by Sections 907.2.1 through 907.2.10, smoke detectors shall be located as follows:

- 20
21 1. In each mechanical equipment, electrical, transformer, telephone equipment or similar
22 room which is not provided with sprinkler protection.
23
24 2. In each elevator machine room and in elevator lobbies.



1 3. Within 5 feet (1524 mm) of doors exiting into stairways that are smokeproof enclosures,
2 or that are pressurized stairways.

3 **Exception:** If such locations are within parking garages, smoke detectors are not
4 required

5
6 **907.2.13.1.2 Duct smoke detection.** Duct smoke detectors complying with Section 907.4.1
7 shall be located as follows:

8 1. In the main return air and exhaust air plenum of each air-conditioning system having a
9 capacity greater than 2,000 cubic feet per minute (cfm) (0.94 m³/s). Such detectors shall be
10 located in a serviceable area downstream of the last duct inlet.

11 2. At each connection to a vertical duct or riser serving two or more stories from a return
12 air duct or plenum of an air-conditioning system. In Group R-1 and R-2 occupancies, a
13 smoke detector is allowed to be used in each return air riser carrying not more than 5,000
14 cfm (2.4 m³/s) and serving not more than 10 air-inlet openings.

15 3. Two smoke detectors are required for stair and elevator shaft pressurization air intakes
16 arranged to automatically shut down the pressurization fans only when both detectors
17 activate. The detectors shall be located downstream of each fan and shall be connected to
18 the fire alarm as a supervisory signal.

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21 * * *

22 **907.2.18.1 Smoke detectors.** A minimum of one smoke detector *listed* for the intended purpose
23 shall be installed in the following areas:
24



- 1 1. Mechanical equipment, electrical, transformer, telephone equipment, elevator machine or
2 similar rooms.
- 3 2. Elevator lobbies.
- 4 3. The main return and exhaust air plenum of each air-conditioning system serving more than
5 one story and located in a serviceable area downstream of the last duct inlet.
- 6 4. Each connection to a vertical duct or riser serving two or more floors from return air ducts
7 or plenums of heating, ventilating and air-conditioning systems, except that in Group R
8 occupancies, a *listed* smoke detector is allowed to be used in each return air riser carrying not
9 more than 5,000 cfm (2.4 m³/s) and serving not more than 10 air inlet openings.
- 10 5. Within 5 feet (1524 mm) of doors exiting into stairways that are smokeproof enclosures, or
11 that are pressurized stairways.

12 **Exception:** If such locations are within parking garages, smoke detectors are not required.

- 13 6. Two smoke detectors are required for stair and elevator shaft pressurization air intakes,
14 arranged to automatically shut down the pressurization fans only when both detectors activate.
15 The detectors shall be located downstream of each fan and shall be connected to the fire alarm
16 as a supervisory signal.

17 * * *

18 **907.5.2.2 Emergency voice/alarm communication systems.** Emergency voice/alarm
19 communication systems required by this code shall be designed and installed in accordance with
20 NFPA 72. The operation of any automatic fire detector, sprinkler waterflow device or manual
21 fire alarm box shall automatically sound an alert tone followed by voice instructions giving
22 *approved* information and directions for a general or staged evacuation in accordance with the
23



1 building's fire safety and evacuation plans required by Section 404. In *high-rise buildings*, the
2 system shall operate on a minimum of the alarming floor, the floor above and ~~((the))~~ two floors
3 below. Speakers shall be provided throughout the building by paging zones. At a minimum,
4 paging zones shall be provided as follows:

- 5 1. Elevator groups.
- 6 2. *Exit stairways*.
- 7 3. Each floor.
- 8 4. *Areas of refuge* as defined in Chapter 2.

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12 **907.6.5.2 Point of Information**

13 Termination of monitoring service only applies when monitoring contracts expire, or are
14 cancelled

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17 **907.6.5.2 Termination of monitoring service.** Termination of fire alarm monitoring services
18 shall be in accordance with Section 901.9.

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20 **[W] 908.7 Carbon monoxide alarms.** Group I or R occupancies ~~((located in a building~~
21 ~~containing a fuel-burning appliance or in a building which has an attached garage))~~ shall be
22 equipped with single-station carbon monoxide alarms installed outside of each sleeping area in
23 the immediate vicinity of the bedrooms in dwelling units or sleeping units and on each level of
24 the dwelling. The carbon monoxide alarms shall be *listed* as complying with UL 2034 and be
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1 installed and maintained in accordance with NFPA 720 and the manufacturer's instructions. An
2 open parking garage, as defined in Chapter 2 of the *International Building Code*, or an enclosed
3 parking garage ventilated in accordance with Section 404 of the *International Mechanical Code*
4 shall not be considered an attached garage.

5 **[W] Exceptions:**

- 6 1. For other than R-2 occupancies, where the building does not contain a fuel-burning
7 appliance, a fuel burning fireplace, or an attached garage.
8
- 9 2. *Sleeping units* or *dwelling units* in I and R-1 occupancies and R-2 college dormitories,
10 hotels, DOC prisons and work releases, and DSHS licensed boarding home and residential
11 treatment facility occupancies which do not themselves contain a fuel-burning appliance,
12 or fuel-burning fireplace, or have an attached garage, ~~((but which are located in a building
13 with a fuel-burning appliance or an attached garage,))~~ need not be equipped with single-
14 station carbon monoxide alarms provided that:
15
- 16 2.1. The *sleeping unit* or *dwelling unit* is not adjacent to ~~((located more than one story
17 above or below))~~ any room ~~((story))~~ which contains a fuel-burning appliance, fuel-
18 burning fireplace, or an attached garage; and
19
- 20 2.2. The *sleeping unit* or *dwelling unit* is not connected by duct work or ventilation
21 shafts with a supply or return register in the same room to any room containing a fuel-
22 burning appliance, fuel-burning fireplace, or ~~((to))~~ an attached garage; and
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1 2.3. The building is equipped with a common area carbon monoxide detection ((alarm))
2 system.

3 * * *
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5 Section 8. Section 1103 of the 2012 Seattle Fire Code is amended as follows:

6 [W] **1103.9 Carbon monoxide alarms.** Existing Group I or R occupancies ((located in a
7 building containing a fuel-burning appliance or a building which has an attached garage)) shall
8 be equipped with single-station carbon monoxide alarms in accordance with section 908.7. The
9 carbon monoxide alarms shall be *listed* as complying with UL 2034, and be installed and
10 maintained in accordance with NFPA 720 and the manufacturer's instructions. An open parking
11 garage, as defined in the *International Building Code*, or an enclosed parking garage ventilated
12 in accordance with Section 404 of the *International Mechanical Code* shall not be deemed to be
13 an attached garage.
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16
17 **Exceptions.**

- 18 1. For other than R-2 occupancies, if the building does not contain a fuel-burning
19 appliance, a fuel-burning fireplace, or an attached garage.
20
21 2. *Sleeping units* or *dwelling units* in I and R-1 occupancies and R-2 college dormitories,
22 hotel, DOC prisons and work releases, and DSHS licensed boarding home and
23 residential treatment facility occupancies which do not contain a fuel-burning
24 appliance, a fuel-burning fireplace, or have an attached garage, provided that:

25 2.1 The *sleeping units* or *dwelling unit* is not adjacent to any room which contains a
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1 fuel-burning appliance, a fuel-burning fireplace, or an attached garage; and

2 2.2 The *sleeping units* or *dwelling unit* is not connected by duct work or ventilation
3 shafts with a supply or return register in the same room to any room containing a
4 fuel-burning appliance, a fuel-burning fireplace, or to an attached garage; and

5 2.3 The building is provided with a common area carbon monoxide detection system.

6
7 ~~((Exception: *Sleeping units* or *dwelling units* which do not themselves contain a fuel-burning
8 appliance or have an attached garage, but which are located in a building with a fuel-burning
9 appliance or an attached garage, need not be equipped with single station carbon monoxide
10 alarms provided that:~~

11
12 1. ~~The *sleeping unit* or *dwelling unit* is located more than one story above or below any
13 story that contains a fuel-burning appliance or an attached garage;~~

14
15 2. ~~The *sleeping unit* or *dwelling unit* is not connected by duct work or ventilation shafts to
16 any room containing a fuel-burning appliance or to an attached garage; and~~

17
18 3. ~~The building is provided with a common area carbon monoxide alarm system.))~~

19 * * *

20
21 Section 9. Section 2007 of the 2012 Seattle Fire Code is amended as follows:

22 **2007.1 General.** Helistops and heliports shall be maintained in accordance with Sections 2007.2
23 through 2007.8. Helistops and heliports on buildings shall comply with NFPA 418 and be
24 constructed in accordance with the *International Building Code*.
25



1 **2007.2 Clearances.** The landing area for helicopters less than 3,500 pounds (1588 kg) shall be not
2 less than 20 feet (6096 mm) in length and width. The ((touchdown)) landing area shall be
3 surrounded on all sides by a clear area having minimum average width at roof level of 15 feet
4 (4572 mm) but no width less than 5 feet (1524 mm). The clear area shall be maintained.

5
6 * * *

7 **2007.5 Standpipe systems.** A building, equipped with a standpipe system, ((with)) that has a
8 rooftop helistop or heliport shall be provided with a Class I or III stand pipe system extended to
9 the roof level on which the helistop or heliport is located. All portions of the helistop and
10 heliport area shall be within 150 feet (45 720 mm) of a 2 ½ -inch (63.5 mm) outlet on the
11 standpipe system.

12
13
14 * * *

15 **2007.9 Restrictions in Fire District.** Heliports shall not be located in the *Fire District*.

16
17 * * *

18 Section 10. Chapter 61 of the 2012 Seattle Fire Code is amended as follows:

19
20 **6103.2.1.8 Use on roofs and exterior balconies.** A single LP-gas container having an individual
21 capacity not exceeding 48 pounds (nominal 20 pound LP-gas) connected to a grill is allowed on
22 a roof or exterior balcony of a building.

23
24 * * *



1 **6104.3 Container location.** LP-gas containers shall be located with respect to buildings, public
2 ways and lot lines of adjoining property that can be built upon, in accordance with Table 6104.3.

3 **Exception:** LP-gas containers not exceeding 48 pounds (nominal 20 pound LP-gas)
4 connected to equipment or portable heaters are allowed to be located on public ways if located
5 a minimum of 5 feet from buildings.

6
7 **6104.3.1 Installation on roof ((and exterior balconies)) prohibited.** LP-gas containers used
8 in stationary installations shall not be located on the roofs of buildings.

9 ~~((Exception: A single LP-gas container having an individual capacity not exceeding 48~~
10 ~~pounds (nominal 20 lb. LP-gas) connected to a grill.))~~

11 * * *

12
13 Section 11. Chapter 80 of the 2012 Seattle Fire Code is amended as follows:

14		
15	80—10	Fire Doors and Other Opening Protectives 703.1.3, 1008.1.3.3
16	85—11	Boiler and Combustion System Hazards Code Table 1304.1
17	86—11	Ovens and Furnaces 2101.1
18	92B—09	Smoke Management Systems in Malls, Atria and Large Spaces 909.8
19	96—10	Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations 609.3
20	99—10	Health Care Facilities 3006.4
21	101—12	Life Safety Code 1028.6.2
22	105—10	Installation of Smoke Door Assemblies and Other Opening Protectives 703.1.2
23	110—10	Emergency and Standby Power Systems 604.1, 604.3, 604.4, 913.5.2, 913.5.3
24	111—10	Stored Electrical Energy Emergency and Standby Power Systems 604.1, 604.3, 604.4
25	120—010	Coal Preparation Plants Table 1304.1
26	130-10 as amended	Standard for Fixed Guideway Transit and Passenger Rail Systems 318
27	160—11	Flame Effects Before an Audience 308.3.2
28	170—09	Standard for Fire Safety and Emergency Symbols 1024.2.6.1
	211—10	Chimneys, Fireplaces, Vents and Solid Fuel-burning Appliances 603.2
	241—09	Safeguarding Construction, Alteration and Demolition Operations 1401.1
	253—11	Standard Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source 804.3
	260—09	Methods of Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture 805.1.1.1, 805.2.1.1, 805.3.1.1, 805.4.1.1
	261—09	Method of Test for Determining Resistance of Mock-up Upholstered Furniture Material Assemblies to Ignition by Smoldering Cigarettes 805.2.1.1, 805.3.1.1, 805.4.1.1
	265—11	Method of Fire Tests for Evaluating Room Fire Growth Contribution of Textile Wall Coverings in Full Height Panels and Walls 803.5.1, 803.5.1.1, 803.5.1.2, 805.4.1.1
	286—11	Standard Method of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth 803.1, 803.1.2, 803.1.2.1, 803.5.1
	303—11	Fire Protection Standard for Marinas and Boatyards 905.3.7, 4503.5, 4503.6, 4504.2
	385—07	Tank Vehicles for Flammable and Combustible Liquids 3406.5.4.5, 3406.6, 3406.6.1
	407—12	Aircraft Fuel Servicing 1106.2, 1106.3



1	409—10	Aircraft Hangars	914.8.2, Table 914.8.2, 914.8.2.1, 914.8.5
	418—11	Standard for Heliports	2007.1
2	430—10	Storage of Liquid and Solid Oxidizers	4004.1.4
	484—12	Combustible Metals	Table 1304.1
3	490—10	Storage of Ammonium Nitrate	3301.1.5
	495—10	Explosive Materials Code	911.1, 911.4, 3301.1.1, 3301.1.5, 3302.1, 3304.2, 3304.6.2, 3304.6.3, 3304.7.1, 3305.1, 3306.1, 3306.5.2.1, 3306.5.2.3, 3307.1, 3307.9, 3307.11, 3307.15
4	498—10	Safe Havens and Interchange Lots for Vehicles Transporting Explosives	3301.1.2
	502 - 11 as amended	Standard for Road Tunnels, Bridges, and Other Limited Access Highways	319
5	505—10	Powered Industrial Trucks, Including Type Designations, Areas of Use, Maintenance and Operation ..	2703.7.3
	654—11	Prevention of Fire and Dust Explosions from the Manufacturing, Processing and Handling of Combustible Particulate Solids	Table 1304.1
6	655—12	Prevention of Sulfur Fires and Explosions	Table 1304.1
	664—012	Prevention of Fires and Explosions in Wood Processing and Woodworking Facilities ..	Table 1304.1, 1905.3
7	701—10	Methods of Fire Tests for Flame-propagation of Textiles and Films	806.2, 807.1, 807.1.2, 807.2, 807.4.2.2, 1703.5, 2404.2
8	703—12	Fire Retardant Impregnated Wood and Fire Retardant Coatings for Building Materials	803.4
	704—12	Identification of the Hazards of Materials for Emergency Response	606.7, 1802.1, 2404.2, 2703.2.2.1, 2703.2.2.2, 2703.5, 2703.10.2, 2705.1.10, 2705.2.1.1, 2705.4.4, 3203.4.1, 3404.2.3.2, F101.1, F101.2
9	720—05	Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment	907.2.8, 907.2.9, 907.2.10
10	750—10	Water Mist Fire Protection Systems	Table 901.6.1
	1122—08	Model Rocketry	3301.1.4
	1123—10	Fireworks Display	3302.1, 3304.2, 3308.1, 3308.2.2, 3308.5, 3308.6
11	1124—12	Manufacture, Transportation, Storage and Retail Sales of Fireworks and Pyrotechnic Articles	3302.1, 3304.2, 3305.1, 3305.3, 3305.4, 3305.5
12	1125—12	Manufacture of Model Rocket and High Power Rocket Motors	3301.1.4
	1126—11	Use of Pyrotechnics Before a Proximate Audience	3304.2, 3305.1, 3308.1, 3308.2.2, 3308.4, 3308.5
	1127—08	High Power Rocketry	3301.1.4
13	1142—12	Water Supply for Suburban and Rural Fire Fighting	B103.3
	2001—11	Clean Agent Fire Extinguishing Systems	Table 901.6.1, 904.10

14

15 Section 12. This ordinance shall take effect and be in force 30 days after its approval by

16 the Mayor, but if not approved and returned by the Mayor within ten days after presentation, it

17 shall take effect as provided by Seattle Municipal Code Section 1.04.020.

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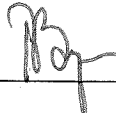
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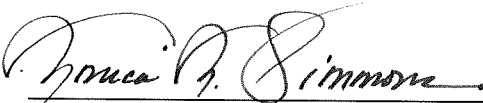
1 Passed by the City Council the 22nd day of September, 2014, and
2 signed by me in open session in authentication of its passage this
3 22nd day of September, 2014.

4
5 
6 _____
7 President _____ of the City Council

8 Approved by me this 23rd day of September, 2014.

9
10 
11 _____
12 Edward B. Murray, Mayor

13 Filed by me this 23rd day of September, 2014.

14
15 
16 _____
17 Monica Martinez Simmons, City Clerk

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23
24
25
26
27
28 (Seal)



FISCAL NOTE FOR NON-CAPITAL PROJECTS

Department:	Contact Person/Phone:	CBO Analyst/Phone:
Fire	Rich Richardson/684-5014	Melissa Lawrie/684-5805

Legislation Title:

AN ORDINANCE relating to the 2012 Seattle Fire Code; as adopted by Chapter 22.600.020 of the Seattle Municipal Code; amending and adding various provisions to that Fire Code all as regulated and allowed by the State Building Code Act, Chapter 19.27 of the Revised Code of Washington.

Summary of the Legislation:

This legislation is a mid-code cycle supplement that will incorporate into the Seattle Fire Code requirements for solar photovoltaic power system installation details as mandated by the state legislature; correlate helistop and heliport requirements with the 2012 Seattle Building Code; remove a requirement to submit fire protection system confidence testing documentation to the Fire Department; incorporate new exceptions for fire protection systems in small educational occupancies as mandated by the state legislature; and incorporate new carbon monoxide requirements for prison and work release facilities as mandated by the state legislature. The legislation also corrects minor errors and omissions made at the time of adoption of the code.

Background:

The current edition of the Seattle Fire Code was adopted in September 2013. This legislation is a mid-code cycle supplement to include new requirements mandated by the state legislature, as well as errors and omissions that were identified since the Fire Code's adoption in 2013.

Please check one of the following:

This legislation does not have any financial implications.

This legislation has financial implications.

Other Implications:

- a) Does the legislation have indirect financial implications, or long-term implications?
No
- b) What is the financial cost of not implementing the legislation? None
- c) Does this legislation affect any departments besides the originating department?



Yes, aligns the Seattle Fire Code with the Department of Planning and Development's Building Code requirements.

- d) **What are the possible alternatives to the legislation that could achieve the same or similar objectives?** None
- e) **Is a public hearing required for this legislation?** No
- f) **Is publication of notice with *The Daily Journal of Commerce* and/or *The Seattle Times* required for this legislation?** No
- g) **Does this legislation affect a piece of property?** No, however building owners throughout Seattle are expected to comply with all city regulations and codes.
- h) **Other Issues:** None

List attachments to the fiscal note below: None





City of Seattle
Edward B. Murray
Mayor

July 29, 2014

Honorable Tim Burgess
President
Seattle City Council
City Hall, 2nd Floor

Dear Council President Burgess:

I am pleased to transmit the attached proposed Council Bill that amends the current Seattle Fire Code. This legislation will incorporate into the Seattle Fire Code requirements for solar photovoltaic power system installation details as mandated by the state legislature; correlate helistop and heliport requirements with the 2012 Seattle Building Code; remove a requirement to submit fire protection system confidence testing documentation to the Fire Department; incorporate new exceptions for fire protection systems in small educational occupancies as mandated by the state legislature; and include new carbon monoxide requirements for prison and work release facilities as mandated by the state legislature. The legislation also corrects minor errors and omissions made at the time of adoption of the code.

The proposed code changes will aid in fighting fires by ensuring that when solar photovoltaic power systems installed on roofs, an acceptable amount of space remains for emergency roof ventilation procedures. The proposed changes also align the Seattle Fire Code with requirements in the Seattle Building Code prohibiting helistop and heliport installations in the downtown fire district. Fire protection systems like sprinklers and fire alarms require testing to ensure they are functional. This process is known as confidence testing and is required by the Seattle Fire Code as well as the State and International Fire Codes. Proposed changes to the 2012 Seattle Fire Code clarify that normal test results no longer need to be submitted to the Seattle Fire Department. Testing remains required by the Seattle Fire Code, however, with documentation of test results maintained at each facility, and the Seattle Fire Department must be notified whenever fire and life safety systems are impaired.

The modifications to the Seattle Fire Code have been reviewed over a period of many months and approved by the Seattle Fire Code Advisory Board. The proposed changes resolve specific inconsistencies between different state and local codes and represent a reasonable approach to improving fire prevention and public safety. Thank you for your consideration of this legislation. Should you have questions, please contact Assistant Chief John Nelsen, Fire Marshal, at 386-1164.

Sincerely,

Edward B. Murray
Mayor of Seattle

cc: Honorable Members of the Seattle City Council

Office of the Mayor
Seattle City Hall, 7th Floor
600 Fourth Avenue
PO Box 94749
Seattle, Washington 98124-4749

Tel (206) 684-4000
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Hearing Impaired use the Washington Relay Service (7-1-1)
www.seattle.gov/mayor



STATE OF WASHINGTON -- KING COUNTY

--ss.

316591

No. 124580,581,582,583,584

CITY OF SEATTLE, CLERKS OFFICE

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.

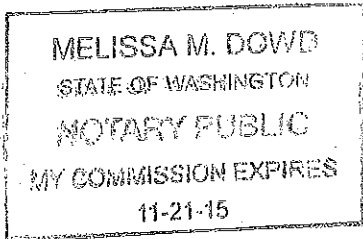
The notice in the exact form annexed, was published in regular issues of The Daily Journal of Commerce, which was regularly distributed to its subscribers during the below stated period. The annexed notice, a

CT:ORDIANNCBS IN FULL

was published on

10/17/14

The amount of the fee charged for the foregoing publication is the sum of \$96.73 which amount has been paid in full.



[Handwritten Signature]

Subscribed and sworn to before me on

10/17/2014

[Handwritten Signature]

Notary public for the State of Washington,
residing in Seattle

Affidavit of Publication

State of Washington, King County

City of Seattle Title Only Ordinances

The full text of the following legislation, passed by the City Council on September 22, 2014, and published below by title only, will be mailed upon request, or can be accessed at <http://clerk.seattle.gov>. For information on upcoming meetings of the Seattle City Council, please visit <http://www.seattle.gov/council/calendar>.

Contact: Office of the City Clerk at (206) 884-8844.

ORDINANCE NO. 124580

AN ORDINANCE relating to the 2012 Seattle Fire Code, as adopted by Chapter 22.600.020 of the Seattle Municipal Code; amending and adding various provisions to that Fire Code all as regulated and allowed by the State Building Code Act, Chapter 19.27 of the Revised Code of Washington.

ORDINANCE NO. 124581

AN ORDINANCE relating to Discovery Park; authorizing the execution of Lot Boundary Adjustment 8012091; authorizing the exchange of property and property interests in and adjacent to Discovery Park to complete the Lot Boundary Adjustment; finding, after a public hearing, that the exchange of property and property interests meets the requirements of Ordinance 118477, which adopted initiative 42; authorizing the Superintendent of Parks and Recreation to negotiate and enter into agreements to exchange restrictive use covenants from the property to be transferred by the City of Seattle to the property to be transferred to the City of Seattle; and ratifying and confirming certain prior acts.

ORDINANCE NO. 124582

AN ORDINANCE relating to Seattle Public Utilities; prohibiting food waste and compostable paper from disposal as garbage; and amending Sections 21.36.082, 21.36.083 and 21.36.922 of the Seattle Municipal Code.

ORDINANCE NO. 124583

AN ORDINANCE authorizing Seattle Public Utilities to enter into an Easement Agreement with the Port of Seattle for the construction, operation, maintenance and monitoring of City-owned stormwater drainage facilities including an outfall pipeline at the Terminal-117 cleanup site on the Lower Duwamish Waterway.

ORDINANCE NO. 124584

AN ORDINANCE relating to historic preservation, imposing controls upon the Northwest Rooms and International Fountain Pavilion, a landmark designated by the Landmarks Preservation Board under Chapter 25.12 of the Seattle Municipal Code, and adding it to the Table of Historical Landmarks contained in Chapter 25.32 of the Seattle Municipal Code.

Date of publication in the Seattle Daily Journal of Commerce, October 17, 2014.

10/17(316591)