

**National Fire Protection Association 130 Standard for
Fixed Guideway Transit and Passenger Rail Systems, 2007 edition,
as amended by City of Seattle Ordinance 122491**

City of Seattle Ordinance 122491 adopts the 2006 Seattle Fire Code and by reference adopts the National Fire Protection Association (NFPA) 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition. Sections of NFPA 130 Standard that were amended or repealed are indicated in the excerpts shown below from City of Seattle Ordinance 122491. Text that is deleted from NFPA 130 Standard is shown with strikethrough and enclosed in double parenthesis. Text that was added as a City of Seattle amendment is shown underlined. Where an entire section was deleted, it is noted below as being repealed.

Point of Information

To purchase a copy of NFPA 130, 2007 edition, go to www.nfpa.org or contact your nearest technical book retailer.

A new subsection 5.1.1.1.1 of the National Fire Protection Association 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition, is adopted to read as follows:

5.1.1.1.1 Fixed guideway transit and passenger rail stations are classified as Group A, Division 3 occupancies in accordance with the 2006 *Seattle Building Code* and 2006 *Seattle Fire Code*.

Subsection 5.2.2 of the National Fire Protection Association 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition, is amended as follows:

5.2.2 Safeguards During Construction. During the course of construction or major modification of any structure, provisions of (~~NFPA 241, Standard for Safeguarding Construction, Alteration, and Demolition Operations~~) Chapter 14 of the 2006 *Seattle Fire Code* and Chapter 33 of the 2006 *Seattle Building Code* shall apply.

A new subsection 5.3.1 of the National Fire Protection Association 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition, is adopted to read as follows:

5.3.1 Smoke control system. A smoke control system shall be provided in underground fixed guideway transit and passenger rail stations in accordance with Section 909 of the 2006 *Seattle Building Code*. Smoke control shall restrict movement of smoke to the general area of fire origin and non-occupied exhaust areas and maintain tenability in the means of egress.

Subsection 5.5.1 of the National Fire Protection Association 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition, is amended as follows:

5.5.1 General. The provisions for means of egress for a station shall comply with ~~((Chapter 7 and Chapter 12 of NFPA 101))~~ Chapter 10 of the 2006 *Seattle Building Code*, except as herein modified.

Subsection 5.5.5.1 of National Fire Protection Association 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition, is amended as follows:

5.5.5.1 The occupant load for a station shall be based on whichever is greater:

- (1) ~~T~~~~(t)~~he train load of trains simultaneously entering the station on all tracks in normal traffic direction plus the simultaneous entraining load awaiting a train or;
- (2) The number of occupants computed at the rate of one occupant per unit of area as prescribed in Table 1004.1.1 of the 2006 Seattle Building Code.

Subsection 5.5.6.1 of National Fire Protection Association 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition, is amended as follows:

5.5.6.1 Platform Evacuation Time. There shall be sufficient egress capacity to evacuate the platform occupant load as defined in 5.5.2.8 from the station platform in 4 minutes or less, but in no case shall the required egress width be less than prescribed by Section 1005 of the 2006 Seattle Building Code.

A new subsection 5.5.6.3.2.8 of National Fire Protection Association 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition, is adopted to read as follows:

5.5.6.3.2.8 Escalators in underground fixed guideway transit and passenger rail stations shall have a clear width of 32 inches (815 mm) minimum in accordance with the 2006 Seattle Building Code.

Exception: The clear width is not required in existing facilities undergoing alterations.

A new subsection 5.5.1.3.1 of National Fire Protection Association 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition, is adopted to read as follows:

5.5.1.3.1 Access to three or more exits shall be provided from a floor area where required by Section 1019.1 of the 2006 Seattle Building Code.

A new subsection 5.5.1.3.4 of National Fire Protection Association 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition, is adopted to read as follows:

5.5.1.3.4 Every required stairway serving floor levels more than 30 feet (9144 mm) below its level of exit discharge except those regularly used by passengers shall comply with the requirements for a smokeproof enclosure as provided in Section 1020.1.7 of the 2006 Seattle Building Code.

Subsection 5.5.1.4 of National Fire Protection Association 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition, is amended as follows:

5.5.1.4 A common path of travel from the platform ends to a point where a person has a choice of two paths of egress travel to two exits shall not exceed 22.8m (75 ft) or one car length, whichever is greater.

Subsection 5.6.1 of National Fire Protection Association 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition, is amended as follows:

5.6.1 Stations shall be provided with a system of emergency lighting in accordance with ~~((NFPA-10,))~~ Section 1006 of the 2006 Seattle Building Code, except as otherwise noted herein.

Subsection 5.7.3.1 of National Fire Protection Association 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition, is amended as follows:

5.7.3.1 An automatic sprinkler protection system shall be provided in all areas of enclosed fixed guideway transit and passenger rail stations ~~((used for concessions, in storage areas, in trash rooms, and in the steel truss area of all escalators and other similar areas with combustible loadings))~~, except trainways~~((:))~~, in accordance with the following:

1. The fire area exceeds 12,000 square feet (1115 m²); or
2. The fire area has an occupant load of 300 or more.
3. The fire area is located on a floor other than the level of exit discharge.

A new subsection 5.7.3.1.2 of National Fire Protection Association 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition, is adopted to read as follows:

5.7.3.1.2 The highest level of exit discharge serving the underground portions of fixed guideway transit and passenger rail stations more than 30 feet (9144 mm) below the lowest level of exit discharge and all levels below shall be equipped with an automatic sprinkler system installed in accordance with Section 903.3.1.1 of the 2006 Seattle Fire Code.

Subsection 5.7.4.1.1 of the National Fire Protection Association 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition, is amended as follows:

5.7.4.1.1 (~~(Class of service shall be determined by the authority having jurisdiction. (See A.5.7.4.30))~~) Each elevated transit station shall be equipped throughout with a Class I standpipe system where the highest platform or floor level is more than 20 feet above the lowest level of fire department access.

Subsection 5.7.4.3* of the National Fire Protection Association 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition, is amended as follows:

5.7.4.3* Fire department connections for fire department use in supplying the standpipe system shall be located (~~(as follows:)~~) in accordance with Seattle Fire Department Administrative Rule 9.03.07 *Automatic Sprinkler and Standpipe Systems*.
~~((1. within 30.5 m (100 ft) of vehicular access and
2. within operating distance of fire hydrants as determined by the local authority having jurisdiction)).~~

Subsection 5.7.6* of National Fire Protection Association 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition, is amended as follows:

5.7.6* Fire Command Center. Underground transit stations shall be provided with a fire command center in accordance with NFPA 72 and Section 509 of the 2006 *Seattle Fire Code*.

Subsection 6.2.1.2 of National Fire Protection Association 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition, is amended as follows:

6.2.1.2 System egress (~~(points)~~) walk surfaces shall be illuminated at a level of not less than 2.69 lx (0.25 ft-candles).

Subsections 6.2.2.5, 6.2.2.5.1, 6.2.2.5.2, and 6.2.2.5.3 respectively of NFPA 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition, are hereby repealed.

Subsection 6.5.2.1 of National Fire Protection Association 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition, is amended as follows:

6.5.2.1 An approved fire standpipe system shall be provided ~~in~~ for underground and elevated fixed guideway transit and passenger rail system trainways where physical factors prevent or impede access to the water supply or fire apparatus, where required by the authority having jurisdiction.

A new subsection 6.5.2.7 of the National Fire Protection Association 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition, is adopted to read as follows:

6.5.2.7 Standpipe lines shall be sized in accordance with the following:

- (1) Standpipe lines shall be a minimum size of 152.4mm (6 in.).**
- (2) Standpipe lines exceeding 2,500 ft. in length between fire department connections shall be a minimum size of 203.2 mm (8 in.).**
- (3) Standpipe lines exceeding 15,000 ft. in length between fire department connections shall be a minimum size of 254.0 mm (10 in.).**

A new subsection 6.5.2.8 of National Fire Protection Association 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition, is adopted to read as follows:

6.5.2.8 Four-way 2½ in. fire department connections shall be provided at all emergency access points.

A new subsection 6.5.2.9 of National Fire Protection Association 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition, is adopted to read as follows:

6.5.2.9 Standpipes shall be interconnected at all tunnel cross passageways and within the stations, with isolation valves provided for each interconnection.

Subsection A.6.2.2.5.3 of Annex A of National Fire Protection Association 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition, is hereby repealed.