

F-CAC CH 6 Work Group  
Draft September 23, 2017

**SECTION 606  
ELEVATOR OPERATION,  
MAINTENANCE AND FIRE SERVICE KEYS**

**606.1 General.** Elevators and conveying systems required by this code or the *International Building Code* shall comply with Chapter 30 of the *International Building Code* and Sections 606.1 through 606.6.

**606.1 Emergency operation.** Existing elevators with a travel distance of 25 feet (7620 mm) or more shall comply with the requirements in Chapter 11 of this code. New elevators shall be provided with Phase I emergency recall operation and Phase II emergency in-car operation in accordance with ASME A17.1/CSA B44.

**606.2 Standby power.** In buildings and structures where standby power is required or furnished to operate an elevator, standby power shall be provided in accordance with Section 1203 of this code. Operation of the system shall be in accordance with Sections 606.2.1 through 606.2.4.

**606.2.1 Manual transfer.** Standby power shall be manually transferable to all elevators in each bank.

**606.2.2 One elevator.** Where only one elevator is installed, the elevator shall automatically transfer to standby power within 60 seconds after failure of normal power.

**606.2.3 Two or more elevators.** Where two or more elevators are controlled by a common operating system, all elevators shall automatically transfer to standby power within 60 seconds after failure of normal power where the standby power source is of sufficient capacity to operate all elevators at the same time. Where the standby power source is not of sufficient capacity to operate all elevators at the same time, all elevators shall transfer to standby power in sequence, return to the designated landing and disconnect from the standby power source. After all elevators have been returned to the designated level, not less than one elevator shall remain operable from the standby power source.

**606.2.4 Machine room ventilation.** Where standby power is connected to elevators, the machine room ventilation or air conditioning shall be connected to the standby power source.

**[BE] 606.3 Emergency signs.** For other than occupant evacuation elevators. An approved pictorial sign of a standardized design shall be posted adjacent to each elevator call station on all floors instructing occupants to use the *exit stairways* and not to use the elevators in case of fire. The sign shall read: ~~IN FIRE EMERGENCY, DO NOT USE ELEVATOR. USE EXIT STAIRS.~~ IN CASE OF FIRE, ELEVATORS ARE OUT OF SERVICE. USE EXIT STAIRS.

**Exceptions:**

1. The emergency sign shall not be required for elevators that are part of an accessible *means of egress* complying with Section 1009.4
2. ~~The emergency sign shall not be required for elevators that are used for occupant self-evacuation in accordance with Section 3008 of the *International Building Code*.~~

**606.3.1 Emergency signs for occupant evacuation elevators.** An approved pictorial sign of a standardized design shall be posted adjacent to each elevator call station on all floors

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instructing occupants to use occupant evacuation elevators in the event of fire or other emergency. The sign shall read: IN FIRE OR OTHER EMERGENCY, USE THIS OCCUPANT EVACUATION ELEVATION TO EXIT THE BUILDING.

**606.4 Maintenance of elevators. Required elevator features and lobbies shall be maintained in accordance with Section 3006 of the *International Building Code* and Sections 606.4.1 thru 606.4.3**

**606.4.1 Fire service access elevators and lobbies.** Where fire service access elevators are required by Section 3007 of the *International Building Code*, fire service access elevator fire protection and safety features and lobbies shall be maintained in accordance with Section 3007 of the *International Building Code* and maintained free of storage and furniture.

**606.54.2 Occupant evacuation elevators and lobbies.** Where occupant evacuation elevators are provided in accordance with Section 3008 of the *International Building Code*, occupant evacuation elevator fire protection and safety features and lobbies shall be maintained in accordance with Section 3008 of the *International Building Code* and maintained free of storage and furniture.

**606.64.3 Water protection of hoistway enclosures.** Methods to prevent water from infiltrating into a hoistway enclosure required by Section 3007.4 and Section 3008.4 of the *International Building Code* shall be maintained.

**606.5 Elevator keys.** All elevators shall be provided with elevator car door and fire-fighter service keys in accordance with Sections 606.5.1 thru 606.5.3

**606.75.1 Elevator key location.** Keys for the elevator car doors and fire-fighter service keys shall be kept in an *approved* location for immediate use by the fire department.

**606.85.2 Standardized fire service elevator keys.** Buildings with elevators equipped with Phase I emergency recall, Phase II emergency in-car operation, or a fire service access elevator shall be equipped to operate with a standardized fire service elevator key approved by the *fire code official*.

**Exception:** The owner shall be permitted to place the building's nonstandardized fire service elevator keys in a key box installed in accordance with Section 506.1.2.

**606.8-15.2.1 Requirements for standardized fire service elevator keys.** Standardized fire service elevator keys shall comply with all of the following:

1. All fire service elevator keys within the jurisdiction shall be uniform and specific for the jurisdiction. Keys shall be cut to a uniform key code.
2. Fire service elevator keys shall be of a patent-protected design to prevent unauthorized duplication.
3. Fire service elevator keys shall be factory restricted by the manufacturer to prevent the unauthorized distribution of key blanks. Uncut key blanks shall not be permitted to leave the factory.

**Comment [JB1]:** Possibly add requirement for correlation with ASME A17.1

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4. Fire service elevator keys subject to these rules shall be engraved with the words "DO NOT DUPLICATE."

**606.8-25.2.2 Access to standardized fire service keys.** Access to standardized fire service elevator keys shall be restricted to the following:

1. Elevator owners or their authorized agents.
2. Elevator contractors.
3. Elevator inspectors of the jurisdiction.
4. *Fire code officials* of the jurisdiction.
5. The fire department and other emergency response agencies designated by the *fire code official*.

**606.8-35.2.3 Duplication or distribution of keys.** A person shall not duplicate a standardized fire service elevator key or issue, give, or sell a duplicated key unless in accordance with this code.

**606.8-45.2.4 Responsibility to provide keys.** The building owner shall provide up to three standardized fire service elevator keys where required by the *fire code official*, upon installation of a standardized fire service key switch or switches in the building.

**606.6 Storage.** Furniture, materials or combustible waste shall not be stored in elevator cars or elevator machine rooms.

Exception: Blankets used for protection of elevator call walls during construction or renovation.

IBC Chapter 30 Changes:

Scope – to correlate with IFC Ch 6/signage;

Review "F" Sections and standby power requirements

IBC code proposals will require coordination and approval from B-CAC

**IBC Chapter 30  
Proposed Change**

**3002.3 Emergency signs.** For other than occupant evacuation elevators , An *approved* pictorial sign of a standardized design shall be posted adjacent to each elevator call station on all floors instructing occupants to use the *exit stairways* and not to use the elevators in case of fire. The sign shall read: IN CASE OF FIRE OR OTHER EMERGENCY, ELEVATORS ARE OUT OF SERVICE. USE EXIT STAIRS.

**Exceptions:**

1. The emergency sign shall not be required for elevators that are part of an *accessible means of egress* complying with Section 1009.4.

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~~2. The emergency sign shall not be required for elevators that are used for occupant self-evacuation in accordance with Section 3008.~~

**3002.3.1 Emergency signs for occupant evacuation elevators.** An approved pictorial sign of a standardized design shall be posted adjacent to each elevator call station on all floors instructing occupants to use occupant evacuation elevators in the event of fire or other emergency. The sign shall read: IN FIRE OR OTHER EMERGENCY, USE THIS OCCUPANT EVACUATION ELEVATION TO EXIT THE BUILDING.

Reason Statement (draft):

Added a "general" subsection at the beginning of this Section to cover the scoping of the requirements.

Re-ordered the subsection/requirements into a more logical presentation for ease of use

Correlated requirements with IBC Chapter 30 and addressed different language for Signage in IFC and IBC.

Added language to IFC and IBC for occupant evacuation elevator signage to ensure consistency between codes and to provide clear and concise building occupant instruction for their use.

**IFC Section 315.3.3  
Proposed Change**

**315.3.3 Equipment rooms.** Combustible material shall not be stored in boiler rooms, mechanical rooms, elevator machine rooms, electrical equipment rooms or in *fire command centers* as specified in Section 508.1.5.