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FIRESAFETY

FIREFIGHTERS' SERVICE FOR AUTOMATIC ELEVATORS

1. GENERAL

- 1.01 All automatic (non-designated attendant) operation elevators having a travel of 25 feet (7.62 m) or more above or below the designed level shall conform to the requirements of this Appendix.

2. AUTOMATIC ELEVATOR EMERGENCY OPERATION

- 2.01 **Phase I Emergency Recall Operation:** A three-position ("on," "off," and "by pass") key operated switch shall be provided only at the designated level for each single elevator or for each group of elevators. The key shall be removable only in the "on" and "off" positions. When the switch is the "off" position, normal elevator service shall be provided and the smoke detectors required by paragraph 3.01 of this Appendix shall be functional. When the switch is in the "by pass" position, normal elevator service shall be restored independent of the smoke detector. When the switch is in the "on" position:

- (1) All cars controlled by this switch which are on automatic service shall return nonstop to the designated level and power-operated doors shall open and remain open.
- (2) A car traveling away from the designated level shall reverse at or before the next available floor without opening its doors.

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- (3) A car stopped at a landing shall have the in-car emergency stop switch rendered inoperative as soon as the door is closed and the car starts toward the designated level. A moving car, traveling to or away from the designated level, shall have the in-car emergency stop switch rendered inoperative, immediately. Once the in-car emergency stop switch has been rendered inoperative, it shall remain inoperative while the car is on Phase I emergency recall operation. All other emergency stop switches shall remain operative.
- (4) A car standing at a floor other than the designated level, with the doors open and the in-car emergency stop switch in the run position, shall conform to the following:
 - (a) Elevators having automatic or momentary pressure closing operation shall have the closing sequence initiated without delay and the car shall proceed to the designated level.
 - (b) Elevators having power-operated doors provided with continuous pressure closing operation or elevators having manual doors, shall, when the doors are closed conform to the requirements of paragraph 2.01. Sequence operation, if provided, shall remain effective.
- (5) Door reopening devices for power-operated doors which are sensitive to smoke or flame shall be rendered inoperative. Mechanically actuated door reopening devices not sensitive to smoke or flame shall remain operative.
- (6) All car and corridor call buttons and all corridor door opening buttons shall be rendered inoperative. All call registered lights and directional lanterns shall be extinguished and remain inoperative. Position indicators, where provided, shall remain in service.
- (7) All cars shall be provided with a visual and audible signal system which shall be activated to alert the passengers that the car is returning non-stop to the designated level. The signal shall remain activated until the car has returned to the designated level.

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- (8) A car stopped at a landing shall have the door open button rendered inoperative as soon as the door is closed and the car starts toward the designated level. A moving car traveling to or away from the designated level shall have the door open button rendered inoperative immediately. Once the door open button has been rendered inoperative, it shall remain inoperative until car has returned to the designated or alternate level.

2.02

Phase II Emergency In-Car Operation: A three-position ("off," "hold," and "on," in that order) key-operated switch shall be provided in or adjacent to an operating panel in each car. It shall become effective only when the designated level Phase I switch (paragraph 2.01) is in the "on" position or a smoke detector (paragraph 3.01) has been activated, and the car has returned to the designated or alternate level by Phase I operation. The key shall be removable in each position. The "off," "hold," and "on" positions shall not change the operation until the car is at a floor with the doors fully opened.

- (1) When in the "on" position, it shall place the elevator on Phase II emergency in-car operation, for use by trained emergency service personnel only, and the elevator shall operate as follows:
 - (a) The elevator shall be operable only by a person in the car.
 - (b) All corridor call buttons and directional lanterns shall remain inoperative.
 - (c) The opening of power-operated doors shall be controlled only by continuous pressure door open buttons. If the button is released prior to the doors reaching the fully open position, the doors shall automatically re-close.
 - (d) Open power-operated doors shall be closed by continuous pressure on a door close button.
 - (e) Door reopening devices rendered inoperative per paragraph 2.01(5) shall remain inoperative. Corridor door closing buttons, if provided, shall remain operative.
 - (f) Every car shall be provided with a call cancel button, which shall be effective during Phase II emergency in-car operation. When activated, all registered calls shall be canceled and traveling car shall stop at or before the next available floor.

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- (g) Floor selection buttons shall be provided in the car to permit travel to all floors served by the car. Means which prevent the operation of these buttons shall be rendered inoperative.
- (2) When the switch is in the "hold" position, the car shall remain at the floor with its doors open, and door close buttons shall be inoperative.
- (3) When the switch is in the "off" position, the elevator is not at the designated or alternate level, and Phase I operation is in effect:
 - (a) The car shall operate in accordance with paragraph 2.01(4 & 5).
 - (b) The car shall return nonstop to the designated or alternate level and power-operated doors shall open.
- (4) Elevators shall be removed from Phase II operation only by moving the emergency key-operated switch in the car to the "off" position with the car at the designated or alternate level.

3. SMOKE DETECTORS

- 3.01 Smoke detectors shall be installed in each elevator lobby at each floor and associated machine room. The activation of a smoke detector in any elevator lobby or associated elevator machine room, other than at the designated level, shall cause all cars in all groups that serve that lobby to return nonstop to the designated level. The operation shall conform to the requirements of paragraph 2.01 of this Appendix.
- 3.02 No device, other than the Phase I switch (paragraph 2.01) or the detectors in the elevator lobby or associated machine room, shall initiate Phase I operation.
- 3.03 If the smoke detector at the designated level is activated, the cars shall return to an alternate level approved by the enforcing authority unless the Phase I the switch (paragraph 2.01) is the "on" position. Smoke detector activation shall only be reset manually.

EXCEPTION (smoke detectors): Elevator lobbies at unenclosed landings.

4. SWITCH KEYS

- 4.01 The switches required by paragraph 2.01 and paragraph 2.02 shall be operable by the same key but one which is not part of a building master key system. There

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shall be a key for the designated level switch and for each elevator in the group. These key's shall be kept on the premises in a location readily accessible to authorized personnel, but not where they are available to the public.

Note: Local authorities may specify a uniform key or key security for their jurisdiction.

5. **INTERRUPTION OF POWER**

5.01 Upon the resumption of power (normal or standby,) the car may move to re-establish absolute car position.

6. **MULTI-DECK ELEVATORS**

6.01 Multi-deck elevators shall also conform to the following requirements:

- (1) The Phase I switch (paragraph 2.01) shall be located at the designated level served by the upper deck.
- (2) The Phase II switch (paragraph 2.02) shall be located in the upper compartment. The elevator shall be provided with a means, located in that deck or adjacent to the entrance at lower lobby floor, for placing the lower deck out of service.

7. **FIREFIGHTERS' SERVICE**

7.01 **Firefighters' Service - Designated Attendant Operated Elevators:** All elevators having a travel of 25 feet (7.62 m) or more above or below the designated level which are operable only by a designated attendant in the car shall be provided with a visual and audible signal system to alert the attendant to close the doors and return nonstop to the designated level. The signal system shall be activated when the Phase I switch (paragraph 2.01) is in the "on" position or when a smoke detector (paragraph 3.01) has been activated.

7.02 **Firefighters' Service - Elevators Arranged for Dual Operation:**

- (a) When on without-designated-attendant operation, elevators shall conform to the requirements of paragraph 2.01.

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- (b) When operated by a designated attendant in the car, elevators parked at a floor shall conform to the requirements of paragraph 7.01 for a period of not less than 15 seconds nor more than 60 seconds. At the completion of the time delay, elevators shall conform to paragraph 2.01.
- (c) Elevators with any special operation designated as hospital service shall conform to the requirements of paragraph 7.01.

7.03 **Firefighters' Service - Inspection Operation:** When an elevator which is provided with firefighters' service is on inspection operation, a continuous audible signal which is audible on top of the car shall sound when the Phase I switch (paragraph 2.01) is in the "on" position or when the smoke detector (paragraph 3.01) is activated to alert the operator of an emergency. Car shall remain under the control of the operator until returned to service.

7.04 **Firefighters' Service Operating Procedures:** Instructions for operation of elevators under Phase I shall be incorporated with or adjacent to the Phase I switch at the designated level. Instructions for operation of elevators under Phase II shall be incorporated with or adjacent to the switch, in or adjacent to the operating panel in each car. Instructions shall be in letters not less than (1/8 inch (3.2 mm) in height and shall be permanently installed and protected against removal or defacement.

8. STANDBY (EMERGENCY) POWER

8.01 **Standby (Emergency) Power:** When standby (emergency) power is furnished, a manual elevator standby power selection switch shall be provided at the designated level to override any automatic sequence operation. If the manual elevator standby power selection switch is of the key-operated type, the switch keys shall conform to the requirements of paragraphs 4.01 and 5.01.

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