Elevator Lobby Exit Access Door Assemblies Locking

The provisions of 7.2.1.6.3, Chapter 7, Means of Egress, are new to the 2009 edition of NFPA 101 Code and provide the technical details supporting the exemption offered by 7.4.1.6.3 to the requirements of 7.4.1.6.1 and 7.4.1.6.2 for unencumbered access to at least one exit from each elevator landing and lobby. The provisions of 7.2.1.6.3 for the locking of elevator lobby access door assemblies are permitted to be used only where another portion of the Code, typically an occupancy chapter, specifically permits their use. Many of the occupancy chapters were revised concurrently with the development of 7.2.1.6.3 to permit its use.

The occupancies permitting the locking of elevator lobby access door assemblies are as follows:
1. Assembly occupancies (12.2.2.2.7, 13.2.2.2.7)
2. Educational occupancies (14.2.2.2.4, 15.2.2.2.4)
3. Day-care occupancies (16.2.2.2.4, 17.2.2.2.4)
4. Health care occupancies [18.2.2.2.4(4), 19.2.2.2.4(4)]
5. Ambulatory health care occupancies (20.2.2.3, 21.2.2.3)
6. Hotels and dormitories (28.2.2.2.2.4, 29.2.2.2.2.4)
7. Apartment buildings (30.2.2.2.2.4, 31.2.2.2.2.4)
8. Mercantile occupancies (36.2.2.2.3, 37.2.2.2.3)
9. Business occupancies (38.2.2.2.3, 39.2.2.2.3)

Where the provisions of 7.2.1.6.3 are used, all the criteria detailed in 7.2.1.6.3(1) through (15) must be met. When the criteria of all 15 items are met, the locked door between the elevator lobby or landing and the exit should present a minimal, but tolerable, obstruction to speedy egress. The criteria blend a host of provisions for fire detection and alarm systems, sprinkler systems, occupant and staff two-way communication systems, and automatic lock release systems.

7.2.1.6.3 Elevator Lobby Exit Access Door Assemblies Locking. Where permitted in Chapter 11 through 43, door assemblies separating the elevator lobby from the exit access required by 7.4.1.6.1 shall be permitted to be electronically locked, provided that all the following criteria are met:

1. The electronic switch for releasing the lock is listed in accordance with UL-294, Standard for Access Control System Units.
2. The building is protected throughout by a fire alarm system in accordance with Section 9.6.
3. The building is protected throughout by an approved, supervised automatic sprinkler system in accordance with Section 9.7.
4. Waterflow in the sprinkler system required by 7.2.1.6.3(3) is arranged to initiate the building fire alarm system.
5. The elevator lobby is protected by an approved, supervised smoke detection system in accordance with Section 9.6.
6. Detection of smoke by the detection system required by 7.2.1.6.3(5) is arranged to initiate the building fire alarm system.
7. Initiation of the building fire alarm system by other than manual fire alarm boxes unlocks the elevator lobby door assembly.
8. Loss of power to the elevator electronic lock system unlocks the elevator lobby door assemblies.
9. The elevator lobby electronic lock system is not supplied with emergency or standby electrical power.
10. Once unlocked, the elevator lobby door assemblies remain unlocked until the building fire alarm system has been manually reset.
11. Where the elevator lobby door assemblies remain latched after being unlocked, latch-releasing hardware in accordance with 7.2.1.5.9 is affixed to the door leaves.
12. A two-way communication system is provided for communication between the elevator lobby and a central control point that is constantly staffed.
13. The central control point staff required by 7.2.1.6.3(12) is capable, trained, and authorized to provide emergency assistance.
14. The provisions of 7.2.1.6.1 for delayed-egress locking systems are not applied to the elevator lobby door assemblies.
15. The provisions of 7.2.1.6.2 for access-controlled egress door assemblies are not applied to the elevator lobby door assemblies.

7.4.1.6 Elevator Landing and Lobby Exit Access.
7.4.1.6.1 Each elevator landing and lobby shall have access to at least one exit.
7.4.1.6.2 The elevator landing and lobby exit access required by 7.4.1.6.1 shall not require the use of a key, a tool, special knowledge, or special effort, unless permitted by 7.4.1.6.3.
7.4.1.6.3 Doors separating the elevator lobby from the exit access required by 7.4.1.6.1 shall be permitted to be electronically locked in accordance with 7.2.1.6.3.

To acquire CEP points, answer the following questions:

1. The electronic switch for releasing a lock shall be listed in accordance with

2. An elevator lobby electronic lock system is to be supplied with standby power.
   - True
   - False

3. Under 7.2.16.1 delayed egress can be used at the lobby doors.
   - True
   - False

4. Once unlocked, the building fire alarm system must be reset manually.
   - True
   - False

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3. Under 7.2.16.1 delayed egress can be used at the lobby doors.

4. Once unlocked, the building fire alarm system must be reset manually.

- True
- False