7.9.2.4 Emergency generators and related transfer switch equipment that provide power to emergency lighting systems shall be installed, inspected, tested, and maintained in accordance with NFPA 110. Stored electrical energy systems, where required in this Code, other than battery systems for emergency luminaires in accordance with NFPA 7.9.2.5, shall be installed, inspected, tested, and maintained in accordance with NFPA 110.

7.9.2.5 Unit equipment and battery systems for emergency luminaires shall be listed to ANSI/UL 924, Standard for Emergency Lighting and Power Equipment.

7.9.2.6 Existing battery-operated emergency lights shall use only reliable types of rechargeable batteries provided with suitable facilities for maintaining them in properly charged condition. Batteries used in such lights or units shall be approved for their intended use and shall comply with NFPA 70.

7.9.2.7 The emergency lighting system shall be either continuously in operation or capable of repeated automatic operation without manual intervention.

7.9.3 Periodic Testing of Emergency Lighting Equipment.

7.9.3.1 Required emergency lighting systems shall be tested in accordance with one of the four options offered by 7.9.3.1.1, 7.9.3.1.2, 7.9.3.1.3, or 7.9.3.1.4.

7.9.3.1.1 Testing of required emergency lighting systems shall be permitted to be conducted as follows:

1. Functional testing shall be conducted monthly, with a minimum of 3 weeks and a maximum of 5 weeks between tests, for not less than 30 seconds, except as otherwise permitted by 7.9.3.1.2(2).
2. The test interval shall be permitted to be extended beyond 30 days with the approval of the authority having jurisdiction.
3. Functional testing shall be conducted annually for a minimum of 1 1/2 hours if the emergency lighting system is battery powered.
4. The emergency lighting equipment shall be fully operational for the duration of the tests required by 7.9.3.1.1(2) and 7.9.3.1.1(3).
5. Written records of visual inspections and tests shall be kept by the owner for inspection by the authority having jurisdiction.

7.9.3.1.2 Testing of required emergency lighting systems shall be permitted to be conducted as follows:

1. Self-testing/self-diagnostic emergency battery-operated emergency lighting equipment shall be provided.
2. Not less than once every 30 days, self-testing/self-diagnostic battery-operated emergency lighting equipment shall automatically perform a test with a duration of a minimum 30 seconds and a diagnostic routine.
3. Self-testing/self-diagnostic battery-operated emergency lighting equipment shall indicate failures by a status indicator.
4. A visual inspection shall be performed at intervals not exceeding 30 days.
5. Functional testing shall be conducted annually for a minimum of 1 1/2 hours.
6. Self-testing/self-diagnostic battery-operated emergency lighting equipment shall be fully operational for the duration of the 1 1/2-hour test.
7. Written records of visual inspections and tests shall be kept by the owner for inspection by the authority having jurisdiction.

7.9.3.1.3 Testing of required emergency lighting systems shall be permitted to be conducted as follows:

1. Computer-based, self-testing/self-diagnostic battery operated emergency lighting equipment shall be provided.
2. Not less than once every 30 days, emergency lighting equipment shall automatically perform a test with a duration of a minimum of 30 seconds and a diagnostic routine.
3. The emergency lighting equipment shall automatically perform annually a test for a minimum of 1 1/2 hours.
4. The emergency lighting equipment shall be fully operational for the duration of the tests required by 7.9.3.1.3(2) and 7.9.3.1.3(3).
5. The computer-based system shall be capable of providing a report of the history of tests and failures at all times.

7.9.3.1.4 Testing of required emergency lighting systems shall be permitted to be conducted in accordance with 7.9.2.4.

7.10 Marking Of Means Of Egress

7.10.1 General.

7.10.1.1 Where Required. Means of egress shall be marked in accordance with Section 7.10 where required in Chapters 11 through Chapter 43.

7.10.2 Exits.

7.10.2.1 Exits, other than main exterior exit doors that obviously and clearly are identifiable as exits, shall be marked by an approved sign that is readily visible from any direction of exit access.

7.10.2.2 Horizontal components of the egress path within an exit enclosure shall be marked by approved exit or directional exit signs where the continuation of the egress path is not obvious.

7.10.3 Exit Door Tactile Signage. Tactile signage shall be provided to meet all the following criteria, unless otherwise provided in 7.10.1.4:

1. Tactile signage shall be located at each door requiring an exit sign.
2. Tactile signage shall read as follows: EXIT.

7.10.4 Existing Exemption. The requirements of 7.10.1.3 shall not apply to existing buildings, provided that the occupancy classification does not change.

7.10.5 Exit Access.

7.10.5.1 Access to exits shall be marked by approved, readily visible signs in all cases where the exit or way to reach the exit is not readily apparent to the occupants.

7.10.5.2 New sign placement shall be such that no point in the exit access corridor is in excess of the rated viewing distance or 100 ft (30m), whichever is less, from the nearest sign.

7.10.6 Floor Proximity Exit Signs. Where floor proximity exit signs are required in Chapters 11 through 43, such signs shall comply with 7.10.3, 7.10.4, 7.10.5, and 7.10.6 for externally illuminated signs and 7.10.7 for internally illuminated signs. Such signs shall be located near the floor level in addition to those signs required for doors or corridors. The bottom of the sign shall be not less than 6 in. (150 mm), but not more than 18 in. (455 mm), above the floor. For exit doors, the sign shall be mounted on the door or adjacent to the door, with the nearest edge of the sign within 4 in. (100 mm) of the door frame.

7.10.7 Floor Proximity Egress Path Marking. Where floor proximity egress path marking is required in Chapters 11 through 43, an approved floor proximity egress path marking system that is internally illuminated shall be installed within 18 in. (455 mm) of the floor. Floor proximity egress path marking systems shall be listed in accordance with ANSI/UL 1994, Standard for Luminous Egress Path Marking Systems. The system shall provide a visible delineation of the path of travel along the designated exit access and shall be essentially continuous, except as interrupted by doorways, hallways, corridors, or other such architectural features. The system shall operate continuously or at any time the building fire alarm is activated. The activation, duration, and continuity of operation of the system shall be in accordance with 7.9.2. The system shall be maintained in accordance with the product manufacturing listing.

7.10.8 Visibility. Every sign required in Section 7.10 shall be located and of such size, distinctive color, and design that it is readily visible and shall provide contrast with decorations, interior finish, or other signs. No decorations, furnishings, or equipment that impairs visibility of a sign shall be permitted. No brightly illuminated sign (for other than exit purposes), display, or object in near the line of vision of the required exit sign that could detract attention from the exit sign shall be permitted.