

ELECTRICAL

2702.2 Where required. Emergency and standby power systems shall be provided where required by this section.

2702.2.1 Group A occupancies. Emergency power shall be provided for voice/alarm communication systems in Group A occupancies in accordance with Section 907.5.2.2.4.

2702.2.2 Smoke control systems. Standby power shall be provided for smoke control systems in accordance with Section 909.11.

2702.2.3 Exit signs. Emergency power shall be provided for exit signs in accordance with Section 1011.5.3.

2702.2.4 Means of egress illumination. Emergency power shall be provided for means of egress illumination in accordance with Section 1006.3.

2702.2.5 Accessible means of egress elevators. Standby power shall be provided for elevators that are part of an accessible means of egress in accordance with Section 1007.4.

⇒ **2702.2.6 Horizontal sliding doors.** Standby power shall be provided for horizontal sliding doors in accordance with Section 1008.1.4.3.

2702.2.7 Semiconductor fabrication facilities. Emergency power shall be provided for semiconductor fabrication facilities in accordance with Section 415.8.10.

2702.2.8 Membrane structures. Standby power shall be provided for auxiliary inflation systems in accordance with Section 3102.8.2. Emergency power shall be provided for exit signs in tents and membrane structures.

2702.2.9 Hazardous materials. Emergency or standby power shall be provided in occupancies with hazardous materials in accordance with Section 414.5.4 and the *New York City Fire Code*.

2702.2.10 Highly toxic and toxic materials. Emergency power shall be provided for occupancies with highly toxic or toxic materials in accordance with the *New York City Fire Code*.

2702.2.11 Organic peroxides. Standby power shall be provided for occupancies with organic peroxides in accordance with the *New York City Fire Code*.

2702.2.12 Pyrophoric materials. Emergency power shall be provided for occupancies with silane gas in accordance with the *New York City Fire Code*.

2702.2.13 Covered mall buildings. Standby power shall be provided for voice/alarm communication systems in covered mall buildings in accordance with Section 402.14.

2702.2.14 High-rise buildings. Emergency and standby power shall be provided in high-rise buildings in accordance with Sections 403.4.7 and 403.4.8.

2702.2.15 Underground buildings. Emergency and standby power shall be provided in underground buildings in accordance with Sections 405.8 and 405.9.

2702.2.16 Group I-3 occupancies. Emergency power shall be provided for doors in Group I-3 occupancies in accordance with Section 408.4.2.

2702.2.17 Elevators. Standby power for elevators, including elevators provided to accommodate ambulance stretchers pursuant to Section 3002.4, shall be provided as set forth in Section 3003.1. Controls, elevator cab light, ventilation and associated equipment required for elevator operation shall be connected to emergency power.

2702.2.18 Airport traffic control towers. Standby power shall be provided in airport traffic control towers in accordance with Section 412.3.5.

2702.2.19 Smokeproof enclosures and pressurized elevator shafts. Standby power shall be provided for smokeproof enclosures as required by Section 909.20.6.2 and for pressurized elevator shafts provided in accordance with Section 708.14.2.5.

2702.2.20 Occupancy Groups B, E and R-1. Emergency and standby power shall be required in those Group B, E and R-1 occupancies specified in this section:

1. Group B occupancies with occupied floor less than 75 feet (22 860 mm) above the lowest fire department vehicle access having a gross floor area over 15,000 square feet (1393.6 m²) per floor or a total gross floor area of 100,000 square feet (9290.3 m²) or more.
2. Group E occupancies with occupied floor less than 75 feet (22 860 mm) above the lowest level of Fire Department vehicle access having a gross floor area over 15,000 square feet (1393.6 m²) per floor or a total gross floor area of 100,000 square feet (9290.3 m²) or more.
3. All Group R-1 occupancies.

2702.2.20.1 Equipment requiring emergency power system. With respect to such Occupancy Groups B, E and R-1, the following equipment, where such equipment is required by this code, shall be provided with an emergency power system:

1. Exit signs and means of egress illumination required by Chapter 10;
2. Elevator car lighting;
3. Emergency voice/alarm communications systems, including Fire Department in-building Auxiliary Radio Communication systems (ARCs) provided where required or installed voluntarily in accordance with Section 917;
4. Automatic fire detection systems;
5. Fire alarm systems; and
6. Electrically powered fire pumps, including manual fire pumps, automatic fire pumps and sprinkler booster pumps.

2702.2.20.2 Equipment requiring standby power system. With respect to such Occupancy Groups B, E and R-1, the following equipment, where such equip-

ment is required by this code, shall be provided with a standby power system:

1. Ventilating systems used for smoke venting or control;
2. Stair pressurization; and
3. At least three elevators in a building at one time with manual transfer to other elevators as required by Section 3003.
4. Power and lighting for the fire command center required by Section 403.4.5.

2702.3 Maintenance. Emergency and standby power systems shall be maintained and tested in accordance with the *New York City Fire Code* and *New York City Electrical Code*.

2702.4 Required loads for optional standby power systems. In addition to any other loads, optional standby power systems shall be capable of providing power to the following systems upon failure of the normal power supply or the emergency or standby power system:

1. Emergency lighting;
2. Fire alarm systems; and
3. Elevators as follows:
 - 3.1. For Group R-2 occupancies in buildings greater than 125 feet (38 100 mm) in height, at least one elevator serving all floors, or one elevator per bank where different banks serve different portions of the building; or
 - 3.2. For all other buildings having occupied floors located more than 75 feet (22 860 mm) above the lowest level of fire department vehicle access, at least one elevator that serves all floors.

