

# National Electrical Code

## ARTICLE 700 – EMERGENCY SYSTEMS 1. GENERAL

**700.1. Scope.** The provisions of this article apply to the electrical safety of the installation, operation, and maintenance of emergency systems consisting of circuits and equipment intended to supply, distribute, and control electricity for illumination or power, or both, to required facilities when the normal electrical supply or system is interrupted.

(FPN No. 1): For further information regarding wiring and installation of emergency systems in health care facilities, see Article 517.

(FPN No. 2): For further information regarding performance and maintenance of emergency systems in health care facilities, see Standard for Health Care Facilities, NFPA 99-2012.

(FPN No. 3): Emergency systems are generally installed in places of assembly where artificial illumination is required for safe exiting and for panic control in buildings subject to occupancy by large numbers of persons, such as hotels, theaters, sports arenas, health care facilities, and similar institutions. Emergency systems may also provide power for such functions as ventilation where essential to maintain life, fire detection and alarm systems, elevators, fire pumps, public safety communications systems, industrial processes where current interruption would produce serious life safety or health hazards, and similar functions.

(FPN No. 4): For specification of locations where emergency lighting is considered essential to life safety, see Life Safety Code, NFPA 101-2012.

(FPN No. 5): For further information regarding performance of emergency and standby power systems, see Standard for Emergency and Standby Power Systems, NFPA 110-2009.

### 700.2. Definitions

**Emergency Systems.** Those systems legally required and classed as emergency by municipal, state, federal or other codes, or by any governmental agency having jurisdiction. These systems are intended to automatically supply illumination, power or both, to designated areas and equipment in the event of failure of the normal supply or in the event of accident to elements of a system intended to supply, distribute, and control power and illumination essential for safety to human life.

**Informational Note:** Emergency systems are generally installed in places of assembly where artificial illumination is required for safe exiting and for panic control in buildings subject to occupancy by large numbers of persons, such as hotels, theaters, sports, arenas, health care facilities, and similar institutions. Emergency systems may also provide power for such functions as ventilation where essential to maintain life, fire detection and alarm systems, elevators, fire pumps, public safety communications systems, industrial processes where current interruption would produce serious life safety or health hazards, and similar functions.

**Relay automatic Load Control.** A device used to set normally dimmed or normally-off switched emergency lighting equipment to full power illumination levels in the event of a loss of the normal supply by bypassing the dimming/switching controls, and to return the emergency lighting equipment to normal status when the device senses the normal supply has been restored.

**Informational Note:** See NFPA 924, Emergency Lighting and Power Equipment, for the requirements covering automatic load control relays.

### 700.3. Tests and Maintenance.

**(A) Conduct or Witness Test.** The authority having jurisdiction shall conduct or witness a test of the complete system upon installation and periodically afterward.

**(B) Tested Periodically.** Systems shall be tested periodically on a schedule acceptable to the authority having jurisdiction to ensure the systems are maintained in proper operating condition.

**(C) Battery Systems Maintenance.** Where battery systems or unit equipment are involved, including batteries used for starting, control, or ignition in auxiliary engines, the authority having jurisdiction shall require periodic maintenance.

**(D) Written Record.** A written record shall be kept of such tests and maintenance.

**(E) Testing Under Load.** Means for testing all emergency lighting and power systems during maximum anticipated load conditions shall be provided.

For information on testing and maintenance of emergency power supply systems (EPSs), see NFPA 110-2013, Standard for Emergency and Standby Power Systems.

### 700.4. Capacity.

**(A) Capacity and Rating.** An emergency system shall have adequate capacity and rating for all loads to be operated simultaneously. The emergency system equipment shall be suitable for the maximum available fault current at its terminals.

**(B) Selective Load Pickup, Load Shedding, and Peak Load Shaving.** The alternate power source shall be permitted to supply emergency, legally required standby, and optional standby system loads where the source has adequate capacity or where automatic selective load pickup and load shedding is provided as needed to ensure adequate power to (1) the emergency circuits, (2) the legally required standby circuits, and (3) the optional standby circuits, in that order of priority. The alternate power source shall be permitted to be used

for peak load shaving, provided the above conditions are met.

Peak load shaving operation shall be permitted for satisfying the test requirement of Section 700.3(B), provided all other conditions of Section 700.3 are met. A portable or temporary alternate source shall be available whenever the emergency generator is out of service for major maintenance or repair.

### 700.5. Transfer Equipment.

**(A) General.** Transfer equipment, including automatic transfer switches, shall be automatic and identified for emergency use and approved by the authority having jurisdiction. Transfer equipment shall be designed and installed to prevent the inadvertent interconnection of normal and emergency sources of supply in any operation of the transfer equipment. Transfer equipment and electric power production systems, installed to permit operation in parallel with the normal source shall meet the requirements of article 705.

**(B) Bypass Isolation Switches.** Means shall be permitted to bypass and isolate the transfer equipment. Where bypass isolation switches are used, inadvertent parallel operation shall be avoided.

**(C) Automatic transfer switches** shall be electrically operated and mechanically held. Automatic transfer switches, rated 1000 VAC and below, shall be listed for emergency system use.

**(D) Use.** Transfer equipment shall supply only emergency loads.

**700-6. Signals.** Audible and visual signal devices shall be provided, where practicable, for the following purposes described in 700.6(A) through (D).

**(A) Derangement.** To indicate derangement of the emergency source.

**(B) Carrying Load.** To indicate that the battery is carrying load.

**(C) Not Functioning.** To indicate that the battery charger is not functioning.

**(D) Ground Fault.** To indicate a ground fault in solidly grounded wye emergency systems of more than 150 volts to ground and circuit protective devices rated 1000 amperes or more. The sensor for the ground-fault signal devices shall be located at, or ahead of, the main system disconnecting means for the emergency source, and the maximum setting of the signal devices shall be for a ground-fault current of 1200 amperes. Instructions on the course of action to be taken in event of indicated ground fault shall be located at or near the sensor location.

**Informational Note:** For signals for generator sets, see NFPA 110-2013, Standard for Emergency and Standby Power Systems.

### 700.7. Signs.

**(A) Emergency Sources.** A sign shall be placed at the service entrance equipment indicating type and location of on-site emergency power sources.

**Exception:** A sign shall not be required for individual unit equipment as specified in Section 700-12(F).

**(B) Grounding.** Where removal of a grounding or bonding connection in the normal power source equipment interrupts the grounding-electrode conductor connection to the alternate power source(s) grounded conductor, a warning sign shall be installed at the normal power source equipment stating:

#### WARNING

SHOCK HAZARD EXISTS IF GROUNDING ELECTRODE CONDUCTOR OR BONDING JUNCTION CONNECTION IN THIS EQUIPMENT IS REMOVED WHILE ALTERNATE SOURCE(S) IS ENERGIZED. The warning sign(s) or label(s) shall comply with 110.25(B).

### 700.8

**Emergency Sources.** A listed SPD shall be installed in or on all emergency systems switchboards and panelboards.

## 11. CIRCUIT WIRING

### 700-10. Wiring, Emergency System.

**(A) Identification.** All boxes and enclosures (including transfer switches, generators, and power panels) for emergency circuits shall be permanently marked so they will be readily identified as a component of an emergency circuit or system.

**(B) Wiring.** Wiring of two or more emergency circuits supplied from the same source shall be permitted in the same raceway, cable, box, or cabinet. Wiring from an emergency source distribution overcurrent protection to emergency loads shall be kept entirely independent of all other wiring and equipment, unless otherwise permitted in 700-10(B) (1) through (5).

**(1) Wiring from the normal power source located in transfer equipment enclosures.**

**(2) Wiring supplied from two sources in exit or emergency luminaires.**

**(3) Wiring from two sources in a listed load control relay supplying exit or emergency luminaires, or in a common junction box, attached to exit or emergency luminaires.**

**(4) Wiring within a common junction box attached to unit equipment, containing only the branch circuit supplying the unit equipment and the emergency circuit supplied by the unit equipment.**

**(5) Wiring from an emergency source to supply emergency and other loads in accordance with 700-10(B)(5)a, b, c, and d as follows:**

- Separate vertical switchgear sections or separate vertical switchboard sections, with or without a common bus, or individual disconnects mounted in separate enclosures shall be used to separate emergency loads from all other loads.

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**Howard C. Massey**



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## **Table of Contents 15 National Electrical Code Download**

1. Understanding the eBook 15 National Electrical Code Download
  - The Rise of Digital Reading 15 National Electrical Code Download
  - Advantages of eBooks Over Traditional Books
2. Identifying 15 National Electrical Code Download
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an 15 National Electrical Code Download
  - User-Friendly Interface
4. Exploring eBook Recommendations from 15 National Electrical Code Download
  - Personalized Recommendations
  - 15 National Electrical Code Download User Reviews and Ratings
  - 15 National Electrical Code Download and Bestseller Lists
5. Accessing 15 National Electrical Code Download Free and Paid eBooks
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  - Highlighting and Note-Taking 15 National Electrical Code Download
  - Interactive Elements 15 National Electrical Code Download
8. Staying Engaged with 15 National Electrical Code Download
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 15 National Electrical Code Download
9. Balancing eBooks and Physical Books 15 National Electrical Code Download
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 15 National Electrical Code Download
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine 15 National Electrical Code Download
  - Setting Reading Goals 15 National Electrical Code Download
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 15 National Electrical Code Download
  - Fact-Checking eBook Content of 15 National Electrical Code Download
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- 
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