

Article 10 - ADMINISTRATIVE SECTION

10.1 TITLE

These Administrative Regulations along with the requirements included in the 2005 Edition of the National Electrical Code (NFPA-70 - 2005) as approved by the North Carolina Building Code Council on December 14, 2004, to be effective January 1, 2005, with the following amendments:

(1) 210.8(a)(3) (Exception No. 2)

(2) 210.71

shall be known as the North Carolina Electrical Code, and may be cited as such or as the State Electrical Code; and will be referred to herein as “the code” or “this code”.

10.2 SCOPE

Article 80 Administration and Enforcement of the code is hereby not adopted and does not apply for this code. For Scope and Exceptions to Applicability of Technical Codes, refer to the North Carolina Administration and Enforcement Code.

10.3 PURPOSE

The purpose of the code is to provide certain minimum standards, provisions and requirements of safe and stable design, methods of construction and uses of materials in buildings and/or structures hereafter erected, constructed, enlarged, altered, repaired, moved, converted to other uses of demolished and to regulate the electrical systems, equipment, maintenance, use and occupancy of all buildings and/or structures. All regulations contained in this code shall have a reasonable and substantial connection with the public health, safety, morals, or general welfare, and their provisions shall be construed liberally to those ends.

10.4 ADMINISTRATION

For administrative regulations pertaining to inspection (rough-ins and finals), permits and Certificates of Electrical Compliance, see local ordinances and the North Carolina Administrative and Enforcement Requirements Code. When the provisions of other codes are determined to be contrary to the requirements of this code, this code shall prevail.

10.5 DEFINITION

Unless the context clearly indicates otherwise, whenever the word “building” is used in this chapter, it shall be deemed to include the word “structure” and all installations such as plumbing systems, heating systems, cooling systems, electrical systems, elevators and other installations which are parts of, or permanently affixed to, the building or structure.

10.6 APPLICATION OF CODE TO EXISTING BUILDINGS

For requirements of existing structures, refer to the North Carolina Administration and Enforcement Requirements Code.

10.7 TEMPORARY POWER

For the requirements for temporary power, refer to the North Carolina Administration and Enforcement Requirements Code.

AMENDMENT 210-8(A)(3)**(3) Outdoors**

Exception No. 1: Receptacles that are not readily accessible and are supplied by a dedicated branch circuit for electric snow-melting or deicing equipment shall be permitted to be installed in accordance with the applicable provisions of Article 426.

Exception No. 2: *A single outlet receptacle supplied by dedicated branch circuit which is located and identified for specific use by a sewage lift pump.*

AMENDMENT 210.71

FPN: Reference the North Carolina Building Code for Group classifications.

210.71 Single- and Multiple-station smoke alarms. Listed single- and multiple-station smoke alarms shall be installed in accordance with the provisions of this code and the household fire-warning equipment provisions of NFPA 72.

(A) Where required. Single- or multiple-station smoke alarms shall be installed in the locations described in Sections 210.71(A)(1) through 210.71(A)(5).

(1) Group R-1. Single- or multiple-station smoke alarms shall be installed and maintained in all the following locations in Group R-1:

- a. In sleeping areas.
- b. In every room in the path of the means of egress from the sleeping area to the door leading from the sleeping unit.
- c. In each story within the sleeping unit, including basements. For sleeping units with split-levels and without an intervening door between adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.

(2) Groups R-2, R-3, R-4 and I-1. Single- or multiple-stations smoke alarms shall be installed and maintained in Groups R-2, R-3, R-4 and I-1, regardless of occupant load at all the following locations:

- a. On the ceiling or wall outside of each separate sleeping area in the immediate vicinity of bedrooms.
- b. In each room used for sleeping purposes.
- c. In each story within a dwelling unit, including basements but not including crawl spaces and uninhabitable attics. In dwellings or dwelling units with split-levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.

(3) Group I-1. Single- or multiple-station smoke alarms shall be installed and maintained in sleeping areas in occupancies in Group I-1. Single- or multiple-station smoke alarms shall not be required where the building is equipped throughout with an automatic fire detection system in accordance with Section 907.2.6 of the North Carolina Building Code.

(4) One- and Two-Family Dwellings. Single- or multiple-station smoke alarms shall not be required where the dwelling unit is protected by an approved smoke detection system in accordance with NFPA 72.

(5) Additions, alterations or repairs to Group R. Where an addition, alteration or repair to an individual dwelling unit or guest room in Group R requires a permit, smoke alarms shall be installed within that individual dwelling unit or guest room in

accordance with this section. Where one or more sleeping rooms are added or created in an existing Group R, smoke alarms shall be installed in accordance with this section.

Exception: Repairs to the exterior surfaces of occupancies in Group R are exempt from the requirements of this section.

(B) Power source. In new construction, required smoke alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source and shall be equipped with a battery backup. Smoke alarms shall emit a signal when the batteries are low. Wiring shall be permanent and without a disconnecting switch other than as required for overcurrent protection.

Exceptions:

1. Smoke alarms are not required to be equipped with battery backup in Group R-1 where they are connected to an emergency electrical system.
2. Smoke alarms are permitted to be solely battery operated in existing buildings, buildings not served from a commercial power source and in existing areas where alterations or repairs regulated by Section 210.71(A)(5) do not result in the removal interior wall or ceiling finishes exposing the structure.

(C) Interconnection. When more than one smoke alarm is required to be installed within an individual dwelling unit in Group R-2, R-3, or R-4, or within an individual dwelling unit or sleeping unit in Group R-1, the smoke alarms shall be interconnected in such a manner that the activation of one alarm will activate all the alarms in the individual unit. The alarm shall be clearly

audible in all bedrooms over background noise levels with all intervening doors closed.

Exceptions:

1. Smoke alarms that are permitted to be solely battery operated in accordance with Section 210.71(B) are not required to be interconnected.
2. Smoke alarms in existing areas are not required to be interconnected where alterations or repairs regulated by Section 210.71(A)(5) do not result in the removal of interior wall or ceiling finishes exposing the structure.

(D) Acceptance testing. When the installation of the alarm devices is complete, each detector and interconnecting wiring for multiple-station alarm devices shall be tested in accordance with the household fire warning equipment provisions of NFPA 72.