

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 March 1, 2005, with the following amendments:

(1) 100

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

(3) 250.50

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 Administrative Code and Policies.

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 Code and Policies. 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 Administrative Code and Policies.

10.7 Service Utilities

10.7.1 Connection of Service Utilities – No person shall make connections from a utility, source of energy, fuel or power to any building or system which is regulated by the technical codes until approved by the Inspection Department and a Certificate of Compliance is issued (General Statute 143-143.2)

10.7.2 Authority to disconnect Service Utilities – The Inspection Department shall have the authority to require disconnecting a utility service to the building, structure or system regulated by the technical codes, in case of emergency or where necessary to eliminate an imminent hazard to life or property. The Inspection Department shall have the authority to disconnect a utility service when a building has been occupied prior to Certificate of Compliance or entry into the building for purposes of making inspections cannot be readily granted. The Inspection Department shall notify the serving utility, and whenever possible the owner or occupant of the building, structure or service system of the decision to disconnect prior to taking such action. If not notified prior to disconnecting, the owner or occupant shall be notified in writing within eight (8) working hours (General Statutes 143-143.2, 153A-365, 153A-366, 160A-425 and 160A-426).

10.8 Temporary Power

10.8.1 Scope. *The provisions of this section apply to the utilization of portions of the wiring system within a building to facilitate construction.*

10.8.2 Provisions for Temporary Power. *The Code enforcement official shall give permission and issue a permit to energize the electrical service when the provisions of 10.8 and the following requirements have been met:*

- 1) The service wiring and equipment, including the meter socket enclosure, shall be installed, the service wiring terminated, and the service equipment covers installed.*
- 2) The portions of the electrical system that are to be energized shall be complete and physically protected.*
- 3) The grounding electrode system shall be complete.*
- 4) The grounding and the grounded conductors shall be terminated in the service equipment.*
- 5) At least one receptacle outlet with ground fault circuit interrupter protection for personnel shall be installed with the circuit wiring terminated.*
- 6) The applicable requirements of the North Carolina Electrical Code shall apply.*

10.8.3 Uses Prohibited. *In no case shall any portion of the permanent wiring be energized until the portions have been inspected and approved by an electrical Code Enforcement Official. Failure to comply with this section may result in disconnection of power or revocation of permit.*

10.8.4 Application for Temporary Power. *Application for temporary power shall be made by and in the name of the applicant. The application shall explicitly state the portions of the energized electrical system, mechanical system, or plumbing system for which application is made, its intended use and duration.*

10.8.5 Security and Notification. *The applicant shall maintain the energized electrical system or that portion of the building containing the energized electrical system in a secured and locked manner or under constant supervision to exclude unauthorized personnel. The applicant shall assume the responsibility to alert personnel working in the vicinity of the energized electrical system to its presence.*

10.9 Requirements of Other State Agencies, Occupational Licensing Boards, or Commissions

The North Carolina State Building Codes do not include all additional requirements for buildings and structures that may be imposed by other State agencies, occupational licensing boards, and commissions. It shall be the responsibility of a permit holder, design professional, contractor, or occupational license holder to determine whether any additional requirements exist.

10.10 Approval. *The Authority Having Jurisdiction shall base his approval or disapproval of industrial equipment or industrial machinery by one of the following methods:*

- (1) Evaluation by a Registered Design Professional registered or licensed in the State of North Carolina. The Registered Design Professional shall submit a report detailing compliance with applicable national standards and the NC Electrical Code; or*
- (2) Listing or Labeling by a Third Party Testing Agency approved pursuant to GS 66-25. When Listing or Labeling is a result of a Field Evaluation, the Third Party Testing Agency shall submit a report detailing compliance with applicable national standards and the NC Electrical Code; or*
- (3) Evaluation by a certified Electrical Code Enforcement Official. The Code Enforcement Official shall submit a report detailing compliance with applicable national standards and the NC Electrical Code.*

AMENDMENT 100

Article 100

Equipment. A general term including material, fittings, devices, appliances, luminaires (fixtures), apparatus, *industrial equipment*, *industrial machinery*, and the like used as a part of, or in connection with, an electrical installation.

AMENDMENT 210.8(A)(3)

(3) Outdoors

Exception No. 1 to (3): 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 to (3): A single outlet receptacle supplied by dedicated branch circuit which is located and identified for specific use by a sewage lift pump.

AMENDMENT 250.50

Delete NEC 2005 text and replace with:

250.50 Grounding Electrode System. If available on premises at each building or structure served, each item in 250.52(A)(1) through (A)(6) shall be bonded together to form the grounding electrode system. Where none of these electrodes are available, one or more of the electrodes specified in 250.52(A)(4) through (A)(7) shall be installed and used.