

1 10 NCAC 13D .3402 is proposed for amendment as follows:

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3 **10A NCAC 13D .3402 EMERGENCY ELECTRICAL SERVICE**

4 ~~Emergency electrical service shall be provided~~ A facility shall provide an emergency electrical service for use in the  
5 event of failure of the normal electrical service. This emergency electrical service shall consist of the following:

- 6 (1) In any existing ~~facility, the following shall be provided:~~ facility:  
7 (a) type 1 or 2 emergency lights as required by the North Carolina State Building ~~Code,~~  
8 Codes: Electrical Code;  
9 (b) additional emergency lights for all ~~nursing stations~~ control points required by Rule  
10 .3201(1)(9) of this Subchapter, ~~drug~~ medication preparation areas required by Rule  
11 .3201(1)(1) of this Subchapter and storage areas, and for the telephone switchboard, if  
12 applicable;  
13 (c) one or more portable battery-powered lamps at each ~~nursing station~~ control point required  
14 by Rule .3201(1)(9) of this Subchapter; and  
15 (d) a ~~suitable~~ source of emergency power for life-sustaining equipment, if the facility admits  
16 or cares for occupants needing such equipment, to ensure continuous operation with on-  
17 site fuel storage for a minimum of 72 hours.

18 ~~(2) Any new addition to an existing facility shall meet the same requirements as new construction.~~

19 ~~(3) Any conversion of an existing building (hotel, motel, abandoned hospital, abandoned school, or~~  
20 ~~other building) shall meet the same requirements for emergency electrical services as required for~~  
21 ~~new construction.~~

22 ~~(4)~~(2) An emergency power generating set, including the prime mover and generator, shall be located on  
23 the premises and shall be reserved exclusively for supplying the emergency essential electrical  
24 system. For the purposes of this Rule, the “essential electrical system” means a system comprised  
25 of alternate sources of power and all connected distribution systems and ancillary equipment,  
26 designed to ensure continuity of electrical power to designated areas and functions of a facility  
27 during disruption of normal power sources, and also to minimize disruption within the internal  
28 wiring system as defined by the North Carolina State Building Codes: Electrical Code.

29 ~~(5)~~(3) Emergency electrical services shall be provided as required by Rule .3101(b) of this Subchapter  
30 with the following ~~modifications:~~ modification: Section 517.10(B)(2) of the North Carolina State  
31 Building Codes: Electrical Code shall not apply to new facilities.

32 ~~(a) Section (B)(2) contained in Section 517-10 of the North Carolina State Building Code,~~  
33 ~~Electrical Code shall not apply to new facilities.~~

34 ~~(b) Egress lighting shall be connected to the essential electrical system at exterior of exits.~~

35 ~~(c) Task illumination in the switchgear and boiler rooms shall be connected to the essential~~  
36 ~~electrical system.~~

- 1           ~~(6)~~(4) The following equipment, devices, and systems which are essential to life ~~safety~~, safety and the  
2 protection of important equipment or vital materials shall be connected to the critical branch of the  
3 emergency essential electrical system as follows:
- 4           (a) nurses' calling system;
  - 5           (b) fire ~~pump~~ pump, if installed;
  - 6           ~~(c)~~ (e) ~~sewerage lift or sump pumps if installed;~~
  - 7           ~~(d)~~(c) one elevator, where elevators are used for ~~vertical~~ the transportation of patients;
  - 8           ~~(e)~~(d) equipment such as burners and pumps necessary for operation of one or more boilers  
9 and their necessary auxiliaries and controls, required for heating and sterilization, if  
10 installed;
  - 11           ~~(f)~~(e) equipment necessary for maintaining telephone service; and
  - 12           ~~(g)~~(f) task illumination of boiler rooms, if applicable.
- 13           ~~(7)~~(5) A ~~minimum of one~~ dedicated emergency critical branch circuit per bed for ventilator-dependent  
14 patients is ~~required~~ required, ~~in addition to the normal system receptacle at each bed location~~  
15 ~~required by the North Carolina State Building Code, Electrical Code.~~ This emergency critical  
16 branch circuit shall be provided with a ~~minimum of~~ two duplex receptacles identified for  
17 emergency use. ~~Additional emergency branch circuits/receptacles shall be provided where~~ When  
18 staff determines that the electrical life support needs of the patient exceed the ~~minimum~~  
19 ~~requirements stated in this Paragraph.~~ Item, additional critical branch circuits and receptacles shall  
20 be provided. ~~Each emergency circuit serving ventilator dependent patients shall be fed from the~~  
21 ~~automatically transferred critical branch of the essential electrical system.~~ For the purposes of this  
22 Rule, a "critical branch circuit" is a circuit of the critical branch subsystem of the essential  
23 electrical system which supplies energy to task lighting, selected receptacles and special power  
24 circuits serving patient care areas as defined by the North Carolina State Building Codes:  
25 Electrical Code. ~~This Paragraph shall apply~~ Item applies to both new and existing facilities.
- 26           ~~(8)~~(6) Heating equipment provided for ventilator dependent patient bedrooms shall be connected to the  
27 critical branch of the essential electrical system and arranged for delayed automatic or manual  
28 connection to the emergency power source if the heating equipment depends upon electricity for  
29 proper operation. ~~This Paragraph shall apply~~ Item applies to both new and existing facilities.
- 30           ~~(9)~~(7) Task lighting connected to the automatically transferred critical branch of the essential electrical  
31 system shall be provided for each ventilator dependent patient bedroom. For the purposes of this  
32 Item, task lighting is defined as lighting needed to carry out necessary tasks for the care of a  
33 ventilator dependent patient. ~~This Paragraph shall apply~~ Item applies to both new and existing  
34 facilities.
- 35           ~~(10)~~(8) Where electricity is the only source of power normally used for ~~space~~ the heating of space, ~~the an~~  
36 emergency service essential electrical system shall provide for heating of patient rooms.  
37 Emergency heating of patient rooms ~~will not be~~ is not required in areas where the facility is

1 supplied by at least two separate generating ~~sources,~~ sources or a network distribution system  
2 with the facility feeders so routed, connected, and protected that a fault any place between the  
3 ~~generators~~ generating sources and the facility will not ~~likely~~ cause an interruption of more than  
4 one of the facility service feeders.

5 ~~(11)(9)~~ The emergency An essential electrical system shall be so controlled that after interruption of the  
6 normal electric power supply, the generator is brought to full voltage and frequency and connected  
7 ~~with~~ within 10 seconds through one or more primary automatic transfer switches to all emergency  
8 lighting, alarms, nurses' call, and equipment necessary for maintaining telephone service. All  
9 other lighting and equipment required to be connected to the ~~emergency~~ essential electrical system  
10 shall either be connected through the 10 second primary automatic transfer switching or shall be  
11 ~~subsequently~~ connected through ~~other~~ delayed automatic or manual transfer switching. If manual  
12 transfer switching is provided, staff of the facility shall operate the manual transfer switch.  
13 ~~Receptacles connected to the emergency system shall be distinctively marked for identification.~~

14 ~~(12)(10)~~ Sufficient fuel shall be stored for the operation of the emergency power generator for a period not  
15 less than 72 hours, on a 24-hour per day operational basis with on-site fuel storage. The generator  
16 system shall be tested and maintained per National Fire Protection Association (~~NFPA) code 99,~~  
17 ~~current addition with all subsequent amendments~~ ) Health Care Facilities Code, NFPA 99, which  
18 is ~~adopted~~ incorporated by reference, including all subsequent amendments and editions. Copies  
19 of this code may be obtained from the National Fire Protection Association ~~4 Battery March Park,~~  
20 ~~P.O. Box 9101, Quincy, MA 02269-9101 at a cost of thirty one dollars (\$31.00).~~ online at  
21 <http://www.nfpa.org/catalog/> or accessed electronically free of charge at  
22 [http://www.nfpa.org/aboutthecodes/AboutTheCodes.asp?DocNum=99.](http://www.nfpa.org/aboutthecodes/AboutTheCodes.asp?DocNum=99) ~~Records of running time~~  
23 ~~shall be maintained and kept available for reference.~~ The facility shall maintain records of the  
24 generator system tests and shall make these records available to the Department for inspection  
25 upon request.

26 ~~(13)(11)~~ ~~Existing facilities shall have electrical systems~~ The electrical emergency service at existing  
27 facilities that shall comply with licensure standards the requirements established in Sections .3100,  
28 and .3400 of this Subchapter in effect at the time a license is first issued. Any remodeling of an  
29 existing facility that results in changes in to the emergency electrical service delivery shall comply  
30 with current licensure requirements. to support the delivery of those services. the requirements  
31 established in Sections .3100, and .3400 of this Subchapter in effect at the time of remodeling.

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33 *History Note:* Authority G.S. 131E-104; G.S. 131E-102; G.S. 131E-104;  
34 Eff. January 1, 1996. 1996;  
35 Amended Eff.