

**APPROVED/OFFICIAL – MINUTES**

**NEW HAMPSHIRE STATE BUILDING CODE REVIEW BOARD**

**In-person regular meeting and hearing July 9, 2021**

**Members Present:**

Philip Sherman, P.E., Chairman  
John Tuttle, Vice-Chair, NH Home Builders Association  
Mark Tetreault, Fire Chief, NH Association of Fire Chiefs  
Roger Maynard, P•FGF•HVAC of NH  
Lee F. Carroll, PE, NH Board of Engineers (Electrical Engineer)  
Peter Lennon, Fire Marshal - Manchester, NH Association of Fire Chiefs  
Kenneth Walsh, NH Public Utilities Commission  
Carl DuBois, Associated General Contractors of NH, Inc.  
Tedd Evans, Mechanical Licensing Board  
James Grant, representing the Electrician's Board  
Jeffrey Trexler, Board of Engineers  
Michael Hagan, CFM, NH Building Officials Association  
William Fraser, NH Electrical Contractors Business Association

**Absent:**

Mariellen MacKay, Governor's Commission on Disability  
Frederick Matuszewski, Board of Architects

**Also Present:**

Emily Stevenson, Administrative Assistant II, NH State Fire Marshal's Office

**Guests:**

Sean P. Toomey, P.E., State Fire Marshal  
Michael Soucy  
Jack Lyons  
Jerry Tepe  
William McKinney  
Dean Sotirakopoulos  
Shawn Bergeron  
Steve Rancourt

The meeting, held in-person, was called to order at 10:08am by Chairman, Phil Sherman. A quorum was declared. Chairman Sherman, for the record, introduced members by roll call attendance.

**OLD BUSINESS**

**Motion** to accept the meeting minutes from June: James Grant

**Seconded:** John Tuttle

Jeffrey Trexler and Peter Lennon abstain

Accepted based on roll call vote.

## **PUBLIC HEARING**

The hearing was opened by Chairman, Phil Sherman and start with amendments presented by William Fraser.

**There were copy and paste errors with EL-20-01-21 and requested to table the hearing of EL-20-01-21 to the next meeting.**

**EL-20-01-21** 2020 National Electrical Code NEC-20 (NFPA 70), section 210.5 Identification for Branch Circuits

**EL-20-02-21** 2020 National Electrical Code NEC-20 (NFPA 70), section 210.8 (A) Dwelling Units

### **William Fraser MOTION TO AMEND**

**Seconded:** John Tuttle

There was a mistake where an underline was to be struck from the document but this amendment deals with the code revision to article 210.8(A) and subsections (5) and (11) are an unnecessary expansion of the requirements for ground fault circuit interrupter protection for personnel. The requirement would mandate GFCI protection for:

- All ranges, ovens, built in appliances in kitchens within 6 feet of a sink
- All Dryers
- All specified receptacles in basements, finished or unfinished.
- All specified receptacles in an area subjectively determined to be damp or wet

*Comments made by Bill McKinney and Jack Lyons*

**EL-20-03-21** 2020 National Electrical Code NEC-20 (NFPA 70), section 210.8 (B) Other Than Dwelling Units

There is an unnecessary cost burden associated with the expanded requirements for ground fault circuit interrupter protection for personal.

Damp, although a defined term remains subjective, and understanding precisely what is considered a damp location can and does differ by individual designers, installers and inspectors, no consensus

-The cost to install GFCI protection for personal for cord and plug connected equipment above 30 amps is estimated at \$ 2,500.00 to 5,500 per piece of equipment, if there is not a commercially available GFI Breaker.

*Comments made by Jack Lyons, Steve Rancourt, Med Kopczynski, John Tuttle*

**EL-20-04-21** 2020 National Electrical Code NEC-20 (NFPA 70), section 201.8 (E) Equipment Requiring Service

-This amendment is looking to delete without substitution for reasoning 210.63 specifies locations where receptacles for servicing of equipment are required, 210.8(A) & (B) also specifies when GFCI protection is required, this article is redundant and unnecessary.

*Comments made by Jack Lyons, William Fraser, and James Grant*

**EL-20-05-21** 2020 National Electrical Code NEC-20 (NFPA 70), section 210.8 (F) Outdoor Outlets

-This amendment is looking to delete without substitution for reasoning: There is no supportive documentation justifying GFCI protection of equipment like heat pumps and condensers.

*Comments made by Jack Lyons, Steve Rancourt and John Tuttle*

**EL-20-06-21** 2020 National Electrical Code NEC-20 (NFPA 70), section 210.12 Dormitory Units

Corrections were to be made to this document and be resubmitted to the board for review

*Exception: AFCI protection shall not be required where the extension of the existing branch circuit conductors is not more than 1.8 m (6 ft) and does not include any additional outlets or devices, other than splicing devices. This measurement shall not include the conductors inside an enclosure, cabinet, or junction box. With reasoning of code change being:*

Conformity and compliance with SB135 which was adopted by the state legislature when the NEC expanded the requirements for arc fault protection in the 2017 edition.

*Comments made by Jack Lyons, Steve Rancourt, Shawn Bergeron, Ted Evans, James Grant, Dean Sotirakopoulos*

**EL-20-07-21** 2020 National Electrical Code NEC-20 (NFPA 70), section 406.5 Countertops and Work Surfaces

Presented by James Grant, Michael Soucy mentioned that corrections on the website should be made.

Section was just to revise the code to strike out old language

*Comments made by Jack Lyons, Michael Soucy, William Fraser*

**EL-20-08-21** 2020 National Electrical Code NEC-20 (NFPA 70), section 201.63 Indoor Equipment Requiring Dedicated Equipment Spaces

The parent language of 210.63 requires an accessible 125 volt, single phase 15 or 20 ampere receptacle with 25 feet of equipment requiring service, the more restrictive requirement in (B)(2) is unnecessary and in many cases impractical.

“Shall not be connected to the load side of the equipment’s branch-circuit disconnecting means” is not clear in its intent and will likely lead to confusion of design, installation, and inspection.

*Comments made by Jerry Tepe that it makes no sense in the revised code language. Corrections are to be made and*

**MOTION TO AMEND: Ken Walsh**

**SECONDED: Lee Carroll**

**EL-20-09-21** 2020 National Electrical Code NEC-20 (NFPA 70), section 230.67 Surge Protection

Delete section without substitution and the reasoning was additional cost imposed by this requirement should be optional.

*Comments made by Jack Lyons, Steve Rancourt, and Kenneth Walsh*

**EL-20-10-21** 2020 National Electrical Code NEC-20 (NFPA 70), section 230.71 Maximum Number of Disconnects

Revise section the read Two to six service disconnects shall be permitted for each service permitted by **230.2** or for each set of service-entrance conductors permitted by **230.40**, Exception No. 1, 3, 4, or 5. The two to six service disconnecting means shall be permitted to consist of a combination of any of the following: (1) Separate enclosures with a main service disconnecting means in each enclosure

(2) Panel boards with a main service disconnecting means in each panel board enclosure

(3) Switchboard(s) where there is only one service disconnect in each separate vertical section where there are barriers separating each vertical section

(4) Service disconnects in switchgear or metering centers where each disconnect is located in a separate compartment

(5) Metering Centers with barriers as required in article 230.62(C)

*Comments made by Jerry Tepe*

**EL-20-11-21** 2020 National Electrical Code NEC-20 (NFPA 70), section 250.14 Frames of Ranges and Clothes Dryers

-Presented by James grant to just revise the current proposed code language with reasoning of it can reduce expenses for dwelling unit owners without compromising safety.

*Comments made by Jack Lyons, Michael Soucy, and Kenneth Walsh*

**EL-20-12-21** 2020 National Electrical Code NEC-20 (NFPA 70), section 314.27 Boxes at Ceiling Suspended (Paddle) Fan Outlets

To revise proposed code language because the language in the 2020 NEC would be impose additional cost by requiring the installation of paddle fan boxes in locations that may never have paddle fans installed, so the language added to this amendment reverts to the requirements in 2017 NEC. This would cause a savings of \$40-\$75 per lighting location in a dwelling.

*Comments made by Jack Lyons, Steve Rancourt, and James Grant*

**EL-20-13-21** 2020 National Electrical Code NEC-20 (NFPA 70), section 334.10 Cables

Revise code as a carry forward of amendment EL-17-01-17 into the 2020 NEC

No Comments

**EL-20-14-21** 2020 National Electrical Code NEC-20 (NFPA 70), section 406.12 Tamper-Resistant Receptacles

Revise code for reasoning that Subsection (6) is not clear in its intent, and is interpreted differently by engineers, inspectors and contractors, no data to support the additional requirement and associated cost.

Subsection (8) is unnecessary at best and at worst cruel and unusual punishment for many individuals living in assisted living facilities.

*Comments made by Jack Lyons, Steve Rancourt, and John Tuttle*

**EL-20-15-21** 2020 National Electrical Code NEC-20 (NFPA 70), section 422.5 General  
Revise code **422.5 General**. Appliances identified in 422(A)(1) through (A)(7) rated 150 volts or less to ground and 60 20 amperes or less, single- or 3- phase, shall be provided with Class A GFCI protection for personnel. Multiple Class A GFCI protective devices shall be permitted but shall not be required. **Reason / Justification:** No substantiation the additional GFCI requirements are necessary and for coordination of amended GFCI requirements in 210.8(A) and (B)

No Comments

**EL-20-16-21** 2020 National Electrical Code NEC-20 (NFPA 70), section 422.16 Built-in Dishwashers and Trash Compactors

Revise section to read Built-in dishwashers and trash compactors shall be permitted to be cord-and-plug-connected with a flexible cord identified as suitable for the purpose in the installation instructions of the appliance manufacturer where all of the following conditions are met:

- (1) For a trash compactor, the length of the cord shall be 0.9 m to 1.2 m (3 ft to 4 ft) measured from the face of the attachment plug to the plane of the rear of the appliance.
- (2) For a built-in dishwasher, the length of the cord shall be 0.9 m to 2.0 m (3 ft to 6.5 ft) measured from the face of the attachment plug to the plane of the rear of the appliance.
- (3) Receptacles shall be located to protect against physical damage to the flexible cord.
- (4) The receptacle for a trash compactor shall be located in the space occupied by the appliance or adjacent thereto.
- (5) The receptacle for a built-in dishwasher shall be located in the space adjacent to the space occupied by the dishwasher. Where the flexible cord passes through an opening, it shall be protected against damage by a bushing, grommet, or other approved means.
- (6) The receptacle shall be accessible.
- (7) The flexible cord shall have an equipment grounding conductor and be terminated with a grounding-type attachment plug.

*Exception: A listed appliance distinctly marked to identify it as protected by a system of double insulation shall not be required to be terminated with a grounding-type attachment plug*  
Unnecessary requirement for a grommet where a flexible cord passes through a wooden cabinet panel.

*Comments made by Jack Lyons, Steve Rancourt, and James Grant*

**EL-20-17-21** 2020 National Electrical Code NEC-20 (NFPA 70), section 440. V14 Location  
Additional section to be added is *Exception no. 3: The disconnect for an indoor unit of a ductless mini-split system shall not be required if the disconnect for the outdoor condensing unit that feeds the indoor unit is lockable in the open position in accordance with 110.25.*

*Comments made by Jack Lyons, Shawn Bergeron, Ted Evans, James Grant*

**EL-20-18-21** 2020 National Electrical Code NEC-20 (NFPA 70), section 450.9 Ventilation  
Revise section and justification is Labeling should be installed by manufacturer on multiple locations of the transformer.

*Comments made by Jack Lyons*

**EL-20-19-21** 2020 National Electrical Code NEC-20 (NFPA 70), section 680.4 Inspections after Installation

Delete without substitution and reasoning is Requirement is beyond the scope and authority of the NEC and is perhaps better suited to be in the International Swimming Pool and Spa Code.

*Comments made by Jack Lyons*

Chair discussed having two meetings per month to meet the November 1<sup>st</sup> deadline

**MOTION TO EXTEND FOR PUBLIC COMMENT TO VOTE AT NEXT MEETING: Ken Walsh**  
**SECONDED: Ted Evans**

**MOTION TO CLOSE PUBLIC HEARING: Jeffrey Trexler**  
**SECONDED: William Fraser**

Next month's meeting is to contain the following:

2018 International Plumbing Code (IPC)

2018 International Mechanical Code (IMC)

2018 International Swimming Pool and Spa Code (ISPSC)

Next meeting will be August 6, 2021

**MEETING ADJOURNED**