

horizontal, in accordance with currently adopted state building code. ~~In no case shall it be less than two hour fire rated.~~"

6. **24-02-01-07(6):** Revises language concerning 15 and 20 amp 125 volt receptacles to be current on national electrical codes.

Fifteen and twenty ampere 125-volt receptacles ~~located outdoors or in unfinished basements~~ supplying sewer pumps and sump pumps shall not need arc fault circuit protection, but shall be ground-fault protected or a single receptacle shall be installed in an enclosure that is lockable.

7. **24-02-01-09(1):** Added exception to rule in relation to NEC 240.24(A).

Exterior overcurrent devices shall be located at a height of no less than two feet [.6096 meter] above grade level to the bottom of the enclosure.

Exception: If raising the switch would exceed the height requirements of NEC 240.24(A).

8. **24-02-01-19(2)(a)(c)(d):** Redefines language to conform to paper and electronic wiring certificates.

a. ~~The A~~ start-up copy of the certificate shall be ~~forwarded~~ submitted to the state electrical board and ~~the canary a~~ copy to the power company before work is commenced and before an electrical installation may be energized.

c. ~~The A pink~~ copy shall be retained by the master or class B electrician.

d. ~~The A manila~~ copy shall be left in or on the panel or given to the owner.

9. **24-02-01-19(2):** Increases job cost to \$20,000 for wiring certificates to be submitted within one year.

Certificates with job cost of ~~ten~~ twenty thousand dollars or less are valid twelve months from the original filing date. A new wiring certificate shall be filed on all unfinished work.

10. **24-02-01-19(4):** Eliminates this section in 2011 version as it is redundant to 24-02-01-19(2)(a) . . paragraphs renumbered.

11. **24-02-01-19(14) (13):** Clarifies procedures for property owners doing their own electrical work ☺

A Message From the Executive Director:



Hello everyone,

Enclosed you will find your complimentary copy of the 2014 Laws, Rules, and Wiring Standards of North Dakota. Additional

copies can be downloaded from our website at www.ndseb.com or purchased through the office for \$1 (\$2 if mailed). They will also be available for sale at our continuing education classes.

We continue to conduct the NDSEB CEU classes (note the schedule of remaining classes in the middle section of this newsletter), but will be having a change of instructors. We want to welcome back Scott Halle, who many of you knew as the northeastern North Dakota Electrical

Inspector and most recently as a City of Grand Forks Electrical Inspector. As some of you may know, Scott has many talents on his resume, one of them being a past college electrical instructor. We feel Scott will be a perfect match to teach continuing education. Welcome back, Scott! Jerry Brackin is moving from half-time to full time inspecting so the Board will now have 14 full time inspectors across North Dakota.

Remember to write your comments on the cards provided at our CEU class as that is something we look at in preparing for next year's CEU class subject matter.

We are continuing to prepare for the implementation of the 2014 NEC and

the 2014 ND Wiring Standards, which will be September 1st. At this time, new licensing examinations are being developed for those of you who are contemplating taking an exam, so make sure you have reviewed the code changes. The NEC 2014 Analysis of Changes and the 2014 ND Wiring Standards are good places to start.

We encourage everyone to use our website as much as possible - we try to keep that site updated with the most current information.

As always, please keep us informed about your most current address as well as your email address.

Be safe out there,
James Schmidt



Ensuring Public Safety Since 1917

Connections

Issue 244
August 2014

NDSEB 2014 Administrative Rules Effective 9/1/14

COMPLIMENTARY 2014 LAWS, RULES & WIRING STANDARDS ENCLOSED

The purpose of the new rules and amendments is to adopt the NFPA 70 2014 edition National Electrical Code and NFPA 101 2012 edition Life Safety Code. These were adopted by the NDSEB on February 12, 2014, and following a formal review by the Administrative Rules Committee of the Legislative Council, will be made effective "September 1, 2014."

To guide you through some of the significant changes that were made, we have incorporated the following "Review," which shows added words/phrases being underlined, and words/phrases that have been removed from the previous version being stricken.

If you have any questions about the 2014 Laws, Rules & Wiring Standards, please call the NDSEB office at 701-328-9522. ☺

Review of 2014 NDSEB Administrative Rules:

- 24-01-01-01(5):** Eliminates the NDSEB District Map from the print edition (due to periodic updating) and notes that a current version will be available at www.ndseb.com.
- 24-02-01-02(1)(b)(1):** Corrects a typographical error from the 2011 version:
 - (1) A maximum of one thousand hours credit for wiring repairing electrical wiring, apparatus, and equipment and light, heat and power.
- 24-02-01-02(1)(d):** Clarifies NDSEB procedures for submitting an Application for an Electrician's License:

Upon receiving an application packet for an electrician's license from an applicant, the state electrical board shall ~~forward an employment verification record to the appropriate parties listed in the application process and review~~ Upon receiving applicant's employment verification of electrical construction experience as outlined under this section. and Upon final approval of the application by the state electrical board, the applicant shall be sent an invitation to take the examination. The invitation shall outline the available testing dates for three months. Upon receiving the invitation, the applicant shall contact the state electrical board and inform the board as to the date chosen to take the examination.
- 24-02-01-03(6):** Allows the use of metal cable in installations:

Metal raceways or metal cable (MC) rated for the environment shall be installed in the following occupancies:

 - Hospitals;
 - Nursing homes;
 - Related patient care areas;
 - Places of assembly; and
 - Dormitories designed to house more than sixteen people.

5. **24-02-01-03(6) -** Redefines language to coordinate with state building code:

For the purpose of this section, a fire barrier is defined as a continuous assembly, vertical or

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- ☺ NDSEB Attends NERA meeting in Austin, TX
- ☺ 2014 NDSEB CEU Class Schedule
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NDSEB Attends NERA Meeting in Austin, TX

NDSEB Executive Director James Schmidt, Board Member Earl Scherer, and Office Manager Paula Glass attended the NERA (National Electrical Reciprocal Alliance) August, 2014 meeting in Austin, Texas.

Twelve (12) NERA member states attended: Minnesota, Alaska, Utah, Idaho, Wyoming, Oklahoma, Nebraska, Iowa, New Hampshire, Montana, Texas, and North Dakota.

Discussion topics included:

- The value of having a nationally recognized Journeyman's exam. A subcommittee was created to further investigate this idea and bring information back to the NERA group;
- The possibility of new member states - there are a few states that may wish to join NERA, although no action was taken at the meeting;
- NEC code adoption by each member state;
- Legislative changes by each member state;
- A few changes were made and adopted to the NERA By-Laws;
- The new plug and play suspended



Participants in the NERA conference in August in Austin, TX pose for a group photo. NDSEB participants included Board member Earl Scherer (back row, third from right), Executive Director James Schmidt (back row, second from right) and Office Manager Paula Glass (front row, second from right).

ceiling grid (the group could only identify one of these ceilings going in in the state of Maine);

- Election of NERA officers (North Dakota elected Secretary of NERA);
- The NERA web-based licensing site, which NERA member states can verify an applicant's license in another NERA state.

A teleconference meeting for NERA members will be held in February, 2015 and another meeting is tentatively scheduled for next summer in New Mexico. ☺

Safety Corner Reminders

- ▶ Safety . . . It is in your hands.
- ▶ Safety rules are your best tools.
- ▶ Electrical safety is no accident.
- ▶ Don't be a stranger to electrical danger.
- ▶ Ensure electrical safety—save life, save property.
- ▶ Take CHARGE for electrical safety.

2014 NDSEB CEU Class Schedule "Continuation"

There are eight (8) 2014 NDSEB CEU classes remaining! Classes fill quickly so plan ahead. Registration is closed one week before each class or even sooner if the class is already full so don't wait until the last second!

New this year: ONLY online registrations will be accepted! Go to www.ndseb.com, "Continuing Education" tab and click "NDSEB CEU Classes and Registration" for more information and to register.

There is an option to purchase the 2014 NEC Code Book with your online registration at a reduced price while supplies last - check out www.ndseb.com for more information.

If you need assistance with the online registration process, please call the NDSEB office at 701-328-9522. ☺

2014 CEU Remaining Schedule of Classes:

Grand Forks - September 11, 2014
Fargo - September 12, 2014

Minot - October 9, 2014
Bismarck - October 10, 2014

Williston - November 13, 2014
Dickinson - November 14, 2014

Grand Forks - December 11, 2014
Fargo - December 12, 2014

Of Special Note:

The NDSEB will no longer be offering non-CEU credit classes such as OSHA 10, 70E arc flash, scissor lift, forklift, boom lift training, confined space and several others.

If you are required to have that type of training for your job, you will need to find an instructor or course offering elsewhere.

News & Notes from NDSEB

- Just a reminder that **Correction Report(s)** "code violation(s)" need to be completed in a timely manner (within 30 days). If you need an extension, call the NDSEB office BEFORE the Correction Report becomes past due. The NDSEB office is sending out approximately 100 PAST DUE notices every two weeks.

Each Correction Report lists the name and phone number of the Electrical Inspector who wrote the report. We encourage you to review those reports as soon as you get them and call the Electrical Inspector if you have any questions.

Please remember: the NDSEB has the right under State Law (43-09-15(5)) to deny, revoke, or suspend

your electrical license if you fail to correct a code violation in a reasonable time period.

- The NDSEB reorganized at its July, 2014 meeting. New positions are as follows:
 - President: Earl Scherer
 - Vice-President: Rod Mayer
 - Secretary: Karen Karls
 - Treasurer: Ben Koppelman
- The NDSEB is looking into a **new reporting system**, which tracks all wiring certificates and maintains a database of electricians licensed in the State of North Dakota. It will also tie into a **new NDSEB website** for e-Certs and other online functions. They currently are in the development stages. Implementation is tentatively scheduled for the end of this year.

- The NDSEB is considering eliminating paper wiring certificates and converting to an all-electronic system. If you presently are using only paper wiring certificates, you may want to get signed up for the e-Cert system sooner rather than later so you can become familiar with it before it is a requirement. The e-Certs system is simple to use and a great way to manage your wiring certificates. If you need help "walking through" the e-Cert process, please give our office a call!



- The IAEI (International Association of Electrical Inspectors) Western Section's 110th Annual Meeting will be in Cleveland, Ohio on September 21-24, 2014. Register at www.iaei-western.org.

Quoted from IAEI website:

"This year's educational program includes a discussion regarding communicating with your community the reasons for adoption of the 2014 National Electrical Code. There will be three short program focusing on three new technologies appearing in the 2014 Code. Modular Data Centers Article 646, Electric Vehicle Energy Management System and Arc Energy Reduction. The Rocky Mountain Chapter will be presenting an interactive program on Basic and Advanced Grounding and Bonding. Other programs will include the ever popular Code Panels, where you will have the opportunity to ask questions of nationally recognized experts. The 2017 Code is around the corner and IAEI is a valuable part of a successful code cycle and we will be reviewing the IAEI Public Inputs for the 2017 Code. The IAEI International President Mark Hilbert will be providing information on key photovoltaic changes in the 2014 NEC. There is also a program on Reclaimed, Recycled and Refurbished Electrical Equipment. You will earn 16.5 CEU's for the program."

Making A Connection:

Board Member Earl Scherer

Representing the investor owned utilities on the NDSEB, Earl Scherer has worked as an Electric Meter Tech for 37 years at Montana Dakota Utilities. Originally from Beulah, North Dakota, Earl has a two year degree from NDSCS in Electrical Technology.

Earl has been married to his wife Laura for 36 years. They have a son, Cory, and two daughters: Heather (married to Mike) with grandson Lucas and Amy (married to Preston). He also has two cats, Bo Sox and Wally.

What is your favorite part of your job? *The safety aspect - it is gratifying to know that what we do helps to keep the end users of electricity in the state of North Dakota safer.*

What is the hardest part of serving on the Board? *The hardest part is to suspend or revoke an electrician's license. They work for many years to attain the license so I take that decision very seriously before taking action*

against their license.

What's the best advice you've ever received? *The best advice I received on the Board was from Eugene Cross - who was a Board Member when I was appointed. Do the work of the Board in a professional manner treating everyone with dignity and respect. Do not have any personal agendas. Always remember you are only one board member and not the board.*

What are your hobbies? *I love to read, collect baseball cards, and travel. My favorite part of traveling is going to Major League Baseball parks - I have been to 15 of the 30 ballparks in use today. My biggest hobby is being a Red Sox fanatic.*

