



NORTH DAKOTA STATE ELECTRICAL BOARD

P.O. Box 7335

Bismarck, ND 58507-7335

(701) 328-9522 - www.ndseb.com

Donald Offerdahl, Executive Director

MAY, 2010

NEWSLETTER

NO. 232

NORTH DAKOTA STATE ELECTRICAL BOARD HIRING ELECTRICAL INSPECTORS

The North Dakota State Electrical Board has openings for two electrical inspector positions. Minimum qualifications are: A high school graduate with electrical trade school degree preferred. Have qualifications of a licensed North Dakota Journeyman and the ability to obtain a North Dakota Master license within 90 days of employment. Have a firm knowledge of the National Electrical Code and North Dakota Laws, Rules and Wiring Standards. Knowledge of the American Petroleum Institute RP500 Standard is a plus. Ability to be a problem solver with excellent interpersonal, written and oral skills. Ability to learn computer system, read and trace circuitry, schematics and blueprints. Must be a self-starter committed to time management, highly motivated, teamwork, high quality customer service and be able to multi-task projects. Flexible scheduling and overnight travel required. Must be able to lift 50 pounds, climb ladders and scaffolds and follow department's safety procedures. Must possess a valid driver's license. Must successfully complete standard background and criminal record check.

One position will be required to reside in the Williston area (District 10) and cover Williams, McKenzie and Divide counties, as well as portions of Burke and Mountrail counties. Another position will be required to reside in the Minot area (District 4) and cover Renville, Bottineau, McHenry, Ward, Burke and Mountrail counties. A State Fleet vehicle will be provided for work purposes.

Applicants must complete an Application for Employment State Form 10950 (available at web site <http://www.nd.gov/hrms>, any N.D. Job Service, or at the North Dakota State Electrical Board by calling (701) 328-9522). Applicants must also submit with the Application a resume and cover letter explaining how their education, experience, and skills will qualify them for this position. Applicants who are residents of North Dakota and eligible to claim veteran's preference must include Form DD214. Claims for disabled veterans' preference must include a current statement of disabled status from the Veteran's Affairs Office. Completed Applications must be received by the N.D. Job Service, 1601 E. Century Avenue, Bismarck, ND 58503 by 5:00 pm on Friday, May 21, 2010.

EVALUATE YOUR DESIGN OF AFCI BRANCH CIRCUITS

When inspectors have been part of the investigation on unwanted tripping occurring on AFCI's, it has been discovered that the load of the circuit was higher than what an electrician had expected. Master bedroom/bathroom circuits were drawing as much as 9.5 amps, and when plugging in today's 12.5 amp vacuum cleaner, it created an overload of the circuit. We have seen problems with circuits connected to garage door openers, refrigerators in kitchens, and freezers in utility rooms where AFCIs are not required to be installed on an AFCI circuit.

Arc-fault breaker manufacturers have now listed a customer service number to report problems with arc fault circuit interrupters. If you are witnessing problems with electrical products and equipment concerning AFCI's, you can contact the following manufacturers:

- * Siemens: 1-800-333-7421
- * Square D: 1-888-778-2733 or <http://www.schneider-electric.us/support/contact-us/>
- * CutlerHammer: 1-800-326-9513 or afciapps@eaton.com

The North Dakota State Electrical Board would still like to continue receiving information or problems reported by submitting the form entitled "Information Needed When Arc Fault Interruptors Trip." We have been working with breaker manufacturers and Underwriters Laboratories to resolve the problems. We are allowing exceptions on a case-by-case basis once a report is received.

PREWIRED OILFIELD BUILDINGS/SKIDS NEED TO BE REPORTED

If electrical contractors are asked to energize a new pre-wired oilfield building or skid, they need to contact the local electrical inspector to notify him of such work. Also, please indicate this in the "Remarks" section of the wiring certificate you complete for this job. This information is used to verify and assure that the manufacturer has completed and submitted the proper documentation to the North Dakota State Electrical Board. If the wiring does not meet code, it will be the responsibility of the manufacturer to hire a North Dakota licensed electrical contractor to correct any code violations.

PLEASE REPORT UNLICENSED ELECTRICAL CONTRACTORS

The North Dakota State Electrical Board has received inquiries as to why the Board is allowing unlicensed electrical contractors to work in North Dakota. The fact is that we are not aware of this happening. When we do get notified, action is taken. If you question if an electrical contractor is properly licensed, you can either go to our website at www.ndseb.com and Search "Find a Licensed Contractor" or "Lookup a Licensed Electrician or Registered Apprentice", call our office at (701) 328-9522 or a local inspector.

ADMINISTRATIVE RULES HEARING SCHEDULED

The North Dakota State Electrical Board will hold a public hearing to address proposed new rules and amendments to N.D. Admin. Code Article 24-02 at **1:15 p.m. on July 14, 2010**, at the Red River Room, State Capitol, Bismarck, North Dakota. The purpose of the proposed new rules and amendments is to adopt the NFPA 70 2011 edition National Electrical Code and NFPA 101 2009 edition Life Safety Code. The proposed new rules and amendments address:

- Entire 24-02 - adopt 2011 National Electrical Code & 2009 NFPA Life Safety Code.
- 24-02-01-01 – clarifies wiring of HVAC, motors, etc., controls regardless of voltage.
- 24-02-01-01(1) – clarifies “FS” inspection of wiring certificate with code violations.
- 24-02-01-01(4) – deletes definition of “Qualified person” as covered in NFPA 70.
- 24-02-01-01(7) – redefine definition of service point.
- 24-02-01-02(1)(a) – revise years to hours for calculating practical experience.
- 24-02-01-02(1)(b)(1) and (2) – revises practical experience credit and eliminates the term “maintaining.”
- 24-02-01-02(1)(d) – revise language to confirm with established testing dates.
- 24-02-01-02(1)(e) – add language to include a picture ID card.
- 24-02-01-03(2) – clarifies language concerning evaluation reports.
- 24-02-01-03(6) – clarifies language to be consistent with 24-02-01-04.
- 24-02-01-04 – revised to be consistent with 24-02-01-03(6).
- 24-02-01-05(1) – expands classification documentation.
- 24-02-01-07(3) – add language to include microwave ovens.
- 24-02-01-07(7) – add language to give owner options for ground-fault protection for garage door opener receptacles.
- 24-02-01-08(4) – specifies service location for single family dwellings.
- 24-02-01-08(5) – revise circuit capacity for house panel over 100 but less than 200 amperes.
- 24-02-01-10 – add language to include when existing building needs to be brought up to code.
- 24-02-01-10.1(4) – add language when to de-energize electrical panel when submerged in water.
- 24-02-01-19(2)(a) – revise terminology to conform to electronic certificates.
- 24-02-01-19(2)(b) – revise terminology to conform to electronic certificates.
- 24-02-01-19(5) – add language when customer is charged more than actual inspection fee paid.
- 24-02-01-19(12) – change cost of elevator inspection fee and adds out-of-state structures or skids.
- 24-02-01-19(14) – add language to clarify when owner obtains a self-wire.
- 24-02-01-21(2) – add language to identify license expiration dates.
- 24-02-01-22(g) – add language to assure attendees receive proper credit.

The proposed new rules and amendments are not expected to have an impact on the regulated community in excess of \$50,000.00.

The proposed new rules and amendments may be obtained at the office of the N.D. State Electrical Board, 1929 N. Washington Street, Suite A-1, P.O. Box 7335, Bismarck, North Dakota. A copy of the proposed new rules and amendments and/or a regulatory analysis may be requested by writing the above address or calling (701) 328-9522. Written or oral comments on the proposed new rules and amendments sent to the above address or telephone number and received by July 30, 2010 will be fully considered.

WIRING & ADVERTISING WITHOUT A LICENSE

Steven "Dusty" Rhodes of Mandan, North Dakota was charged with Operating as an Electrician without Required License, a Class B misdemeanor in violation of N.D.C.C. 43-09-09. On April 19, 2010, Mr. Rhodes appeared at the Burleigh County District Court and pled guilty and ordered to pay fees and fines of \$275.00, received a suspended 30 days in jail and received a two-year unsupervised probation period. Mr. Rhodes was also required to pay restitution of hiring a licensed electrical contractor to correct violations and certify job, and was also ordered to remove any advertising to do electrical work. Mr. Rhodes' Master license was revoked on January 9, 2008 by the N.D. State Electrical Board.

INDUSTRIAL MACHINES & ELECTRICAL EQUIPMENT/MATERIALS ARE REQUIRED TO BE LISTED

In today's world and internet access, availability of new products is as easy as a touch of a button. We see more and more products that are available from industrial machines to luminaries and receptacles.

As a reminder, if you are asked to install a product make sure that it is listed by a nationally recognized testing laboratory. Article 90.7 of the National Electrical Code requires that electrical equipment and wiring materials are examined for safety. Industrial machines are required to be listed by a nationally recognized testing laboratory. If you come across these types of electrical equipment, look for the listing and labeling of the equipment and to become familiar with the manufacturer's instructions prior to installing and

energizing the product. If you have further questions, contact your inspector to make him aware of the product that you have come across, and we may help you with further questions. The OSHA web site provides a list of nationally recognized testing laboratories at www.osha.gov.

We have also come across products that are available to retrofit existing luminaries. We have found that some of these products are not listed by a testing laboratory. NEC Article 410.6 requires that luminaries and lampholders are required to be listed. NEC Article 110.3(B) requires that electrical equipment be installed as per the manufacturer's instructions. Please make sure you follow manufacturer's instructions.

NEW LICENSES ISSUED

Examinations were conducted in Bismarck on January 25th, February 8th, February 22nd, March 8th, March 15th, March 22nd, March 29th, April 12th, April 19th and April 26, 2010. We had 27 individuals who took the Master exam and 59 who took the Journeyman exam. **Our congratulations to the following applicants who passed their examination and were issued a license.**

MASTERS

® Represents Reciprocal Licenses

LICENSE #	NAME	ADDRESS	LICENSE #	NAME	ADDRESS
2678 ®	Ramsey, Jeffrey	Cloquet, MN	2690	Arnson, Jason	Williston, ND
2679	Moss, Kevin	Stanley, ND	2691	Simon, Gary	Milliken, CO
2680 ®	Ward, Jeffrey	Sturgis, SD	2692 ®	Paulsen, Rickey	Deerwood, MN
2681	Steenon, Ryan	Hillsboro, ND	2693 ®	Neaton, Jeffery	Watertown, MN
2682 ®	Kosmides, George	Edina, MN	2694	Haukos, Travis	Moorhead, MN
2683 ®	Klimek, Jason	Brandon, MN	2695	Martin, Carl	Richardton, ND
2684	Weller, Jeremy	Coweta, OK	2696	Nelson, Chris	West Fargo, ND
2685 ®	Jones, William	Waseca, MN	2697 ®	Juetten Jr, Kenneth	Milaca, MN
2686 ®	Simonson, Sidney	Duluth, MN	2698 ®	Voss, Scott	Sioux Falls, SD
2687	Williams, Jared	Glenrock, WY	2699	Koch, Kevin	Bismarck, ND
2688 ®	Chlan, Eric	Otsego, MN	2700	Klein, Jesse	Bismarck, ND
2689 ®	Critelli, Gary	Plymouth, MN			

JOURNEYMAN

There were 99 Reciprocal Licenses Issued

LICENSE #	NAME	ADDRESS	LICENSE #	NAME	ADDRESS
5914	Hegge, Kyle	Williston, ND	5980	Stroud, Aaron	Bismarck, ND
5917	Hanson, Travis	Cumberland, WI	5984	Larson, Justin	Grand Forks, ND
5922	Norton Jr, Dennis	Bismarck, ND	5987	Paulsen, Randy	Williston, ND
5926	Taffe, Shaun	Fargo, ND	5988	Pfeifer, Richard	Fargo, ND
5930	Sundeen, Michael	Grand Forks, ND	5990	Schultz, Scott	Fargo, ND
5939	Dietrich, Darrin	Fargo, ND	5994	Haas, Joseph	Lidgerwood, ND
5941	Vatnsdal, Chris	West Fargo, ND	5999	Stroh, Brett	Tappen, ND
5942	Wolf, Daniel	Fargo, ND	6000	Usselman, Ryan	New Leipzig, ND
5943	Beyer, Jonathan	Bottineau, ND	6001	Anderson, Charlie	Minot, ND
5944	Carlson, Wayne	Swartz Creek, MI	6003	Gjellstad, Jason	Voltaire, ND
5957	Bares, Daniel	Bismarck, ND	6007	Henderson, Stephen	Minot, ND
5958	Bugbee, Ryan	Tioga, ND	6008	Petersen, Todd	Bismarck, ND
5959	Chilcote, Joshua	Zap, ND	6010	Fjeld, Howard	Minot, ND
5962	Wiedrich, Robert	Cathay, ND	6012	Rooney, Ryan	Bismarck, ND
5964	Ell, Tyler	Bismarck, ND	6027	Davis, Matthew	Tioga, ND
5972	Burns, Justin	Fargo, ND	6031	Weiss, Galen	Mandan, ND
5973	Goetz, Tyler	Sterling, ND	6034	Erickson, Clayton	Fargo, ND
5974	Kindem, Justin	West Fargo, ND	6035	Grise, Kory	Fargo, ND
5976	Larson, Zachary	Fargo, ND			
5979	Reimers, Evan	Wimbledon, ND			

IN MEMORIAM

We regret to announce the death of Richard Lanes, Grand Forks, ND. Richard obtained his Journeyman license #3224 in 1991. We wish to express our deepest sympathy to his family and friends.