

Spring 2008

News from the NC Ellis Cannady Chapter, IAEI
Presidential Views



We are starting out this spring / summer season with some beautiful weather and scenery. With all the flowers and trees in full bloom and grass turning green, we are maybe mowing and trimming more than we really like. God has blessed us well.

With the arrival of summer this year there will also be the introduction of the new electrical code for the 2008 cycle. It's difficult for most of us to keep up with the codes as they are. Then there's changes that are made every three years. Adopting the new code helps us keep current with advancing technology. The code has to be modified to meet situations of safety rules and standards. The challenge now for us as the electrical industry is to become familiar with the new and revised Code. The Ellis Cannady Chapter IAEI offers the *NEC Analysis of Changes* book for 2008. As a member of our Chapter you can purchase yours for \$45. (Non-member price is \$55). There are approximately 400 code changes made this code cycle. This book has been found to be an easily understood description of every change with photos that act as aids in understanding these changes. I have one and it has been very helpful.

On another note I would like to thank everyone for a successful meeting at the North Carolina Electrical Institute in Raleigh. I thought it was very beneficial for learning more about the new codes. I would also like to thank all of the committee chairmen and the members of the NC Ellis Cannady Chapter for all their work. Their efforts are always appreciated. So until we meet again everybody have a great summer. Thank You!

Respectfully,
Mark Noonkester, chapter president

Industry Events

[See Our "Meetings" Section](#)

Code Issues and Enactments

Adoption of the 2008 NEC. The NCBCC approved the 08 NEC for adoption with effective date of June 1st. Many of our members and our industry partners were heard at the NCBCC Electrical Committee meeting. The NC Electrical Code will have the previous 05 amendments and the new crawl space boring requirement was deleted by amendment. The effective dates for AFCI expansion and tamper proof receptacles will be delayed for six months. Our chapter wishes to thank all those who contributed to the NC Electrical Code Adoption.

New Faces and Places

William D. "Dee" Hand, is the new Chief Electrical Inspector Guilford County. Dee has 30 years in the Electrical field, including being a long time employee of H.P. Wright Electric Company as well as other contractors. Dee has been with Guilford County for the last 10 years, and was promoted to Chief Electrical Inspector March 1, 2008.

NC Chapter Committee Members . We have several new committee members. See website for committee updates. www.nciae.org.

Sick, Shut-in and Bereaved

Mark Tighe, Chief Electrical Inspector for City of Winston-Salem, is back at work. He is working a full week with some light duty. He is still weak, but starting to gain some of the strength and weight back that he lost. He still has some pain and discomfort, but seems to be in very good spirits. We hope he will fully recover from his long ordeal. Welcome back Mark!

NC Building Codes Council Appointments

The NCECC, IAEI wishes to congratulate the two new NCBCC electrical appointees, Ms. Kim Reitterer and Mr. Edroy Moore. Both were very helpful at the last NCBCC meeting in March, proposing the adoption of the amended 08 NEC as the NC State Electrical Code. The amendments were in keeping with the current State Electrical Code status and posed no substantial deviation from the 08 NEC. We look forward to working with them in the future on electrical code and industry issues and congratulate them on their efforts to keep NC electrically safe.

Ms. Reitterer is a Principal and the Senior Electrical Engineer for Elm Engineering, Inc. Her responsibilities include marketing, design and preparation of design and construction documents, overseeing the design of all electrical projects for the firm and quality control efforts. Ms. Reitterer has over 24 years experience designing engineering systems for college, universities, K-12 public and private school systems, hospitals, financial and other office buildings. She is experienced in the design of electrical power distribution and communications systems, sports, indoor and outdoor lighting, energy efficient lighting, control systems, standby power generators, UPS systems, critical power distribution, fire alarm detection and suppression systems, and equipment monitoring. Ms. Reitterer has a Bachelor of Science in Electrical Engineering from John Hopkins University, is a registered PE in NC, SC, GA, DC, VA, and MD. She is a LEED™ Accredited Professional from the United States Green Building Council. Ms. Reitterer can be contacted at KReitterer@elmengr.com.

Mr. Edroy Moore, Sr. is the founder of E. Moore & Son Electric, Inc. and has over 35 years experience in both the residential and commercial marketplace. The company is licensed by the State of North Carolina Board of Electrical Examiners with an unlimited classification. The company has worked on some of Charlotte's larger electrical projects such as Ericsson Stadium, Bank of America, and the new Gateway Business Center buildings. These successful experiences have positioned Ed and E. Moore & Son Electric, Inc for greater future success. Mr. Moore can be contacted at info@emooreelectric.com.

Retirements

Tim Walker, has retired from Mecklenburg County electrical inspections after serving the department and his community for many years. Tim's expertise, hard work, and service to Mecklenburg County is greatly appreciated. Tim, many thanks from many people, and we hope to see you at our meetings

Product Safety

In a recent web search for questionable products, the website www.made-in-china.com boasted a "Circuit Breaker", "CE" marked only. Here's the exact wording from the manufacturer:

Product Description. *DZ47-63(C45N) series circuit breaker is used in lighting distribution system or motor distribution system for protecting overload and short circuit in the system. The product is neoteric in structure, light in weight, reliable And excellent in performance. Its frame and parts adopt plastics of high fire resistant and shockproof. The product, with long life, is mainly used in AC 50Hz/60Hz single pole 240V or two, three, four poles up to 415V circuit for Overload and short circuit protection, as well as for*

unfrequently switching on&off electric equipment and lighting circuit in normal case. The products comply with IEC 60898 & GB10963-1999.

Specification:

Number of pole: 1, 2, 3,4Pole

Rated voltage: 240/415AC

Rated current: 1, 3, 6, 10, 16, 20, 25, 32, 40, 50, 63A

Breaking Capacity: 4.5/6KA

Electrical endurance: 10, 000 times

HS Code: 8536200

Trademark: CNC, OEM

Model: DZ47-63

Standard: IEC 60898 & GB10963-1999

Productivity: 20,000PCS/DAY

Origin: China

Packing: Export Packing

Min. Order: 5,000PCS

Transportation: by sea or airport



Notice the wording “*The products comply with IEC 60898 & GB10963-1999*”. This is very common language on “CE” only marked products and other products where the manufacturer has not bothered to assure compliance with Standards. If you read between the lines, it might actually read “*We never had this tested by electrical safety professionals but you can trust us...*”.

This brings up many question that cannot be answered satisfactorily, because it would be difficult to ask the manufacturer. The main question is: Is it a Circuit Breaker? The answer is No. In fact, the IEC (International) Standard referred to is severely limited in scope, and is nowhere close to our US Standard for Circuit Breakers, UL 489.

Safety Reminder

Personal Protective Equipment. Feb 13th, 2008 OSHA made PPE mandatory for employers to provide. Of course, if the employer's policy is to NOT work on live equipment, then this will not apply to you. However, the reality is that many people in the electrical field perform live work even if the policy is not to. For example, even standing in front of an open control panel that is energized requires a level of PPE. The implications are serious for facilities, Contractors, Engineers, Utilities employees and many others. More information is available on the OSHA website. You can see the actual wording of the law by going to www.osha.gov and typing in 1910.132 into the "Search" box. Use the link that says "General requirements".

Hearing protection. Although the Occupational Health and Safety Administration (OSHA) has established standards to protect workers from hearing loss due to workplace noise-and employers for the most part attempt to comply with the rules-many employees often "forget" to wear hearing protection because they deem it uncomfortable, or they remove it for varying periods of time, or they select earplugs that do not fit properly.

Because the effect of exposure to elevated noise levels is cumulative, and hearing loss is usually gradual, the onset of deafness may not become apparent for years. Thus, many workers seem to feel there is no immediate downside when they fail to follow the rules laid down by their employer.

OSHA estimates some 30 million workers are regularly exposed to noise levels that are eroding their ability to hear ambient sounds and normal conversation. The Better Hearing Institute reports that a similar number of Americans already have some degree of hearing impairment.

Any noise louder than 80 decibels (dB) for prolonged periods of time can contribute to hearing loss. In that category are lawn mowers, snow and leaf blowers, helicopters, motorcycles, chain saws, snowmobiles, shop tools, rock concerts, jet engines, gun shots, heavy truck traffic, machine tools, and construction equipment.

Non-Certified Machinery. Remember that the new NC General Statutes allows an Inspector to report potentially unsafe / non-certified electrical equipment and industrial machinery directly to OSHA.

1). Go to www.nclabor.com, under "Quick Clicks" on the right-hand side, click on "Safety and Health Complaints". On this page, you will see the statement: "Anyone who knows about a workplace safety or health hazard may file a complaint, and OSHNC will investigate the concerns reported". You can file a complaint online.

2). On the left-hand side of the page, are the phone numbers for the Eastern and Western Bureau Chiefs. Tim Childers is the Western Bureau Chief, his number is 336-776-4420. Tom Hayes is the Eastern Bureau Chief, his number is 919-779-8512. Also, you can call the OSH Complaint Desk at 919-807-2796, 919-662-4309, or 800-NC-LABOR (800-625-2267).

If you file a complaint, and do not get a satisfactory result, or do not get information on the results of the compliant / OSHA Inspection, contact us at the NC Ellis Cannady Chapter IAEI. Go to www.nciaei.org and click on "Contact", and fill out the form. We will assist you in getting an answer.

Thank you for helping to keep NC workplaces safe!

FYI

I Am Safety Smart – IAEI national program kicks off in North Carolina. The IAEI's first child electrical education program classes were held in North Carolina schools. These first classes were a great success, and we are proud to be the first State to start this new and exciting way to educate the next generations in electrical safety. See our website for brochure and volunteer registration forms. Also, see the complete article at www.iaei.org, go to the IAEI news link.

2008 NEC Code books . 2008 Code books are available . Make sure everybody you know that uses the Code has an opportunity to have their own copy. Check our website www.nciae.org for Code books available, as well as other educational materials and IAEE NC Chapter promotional items.

Member prices: 2008 Code \$60. Analysis \$ 45 Save on shipping and handling and an extra \$5: pick up your books at one of our continuing education classes!

NEC Continuing Education Classes for 2008. Our continuing education classes for 2007 were a great success!. Visit our chapter website for updates on continuing education. Our next classes are in Wilmington, Charlotte, Hickory and Asheville.