



THE WIRE

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MARCH 2022

PRESIDENTS LETTER

Our February 2022 general membership meeting was another well attended event with 51 members present. I'd like to thank Tony Pitelko, with Richards Supply, for setting up the February presentation on Article 250 Grounding and Bonding. Also, the slate of officers was approved at the start of the meeting. The list of officers can be viewed on the ECHL website and our Facebook page. The February 50/50 drawing was for \$55 and was won by Jim Crask.

Our contractor continuing education class on February 12th was also well attended and very informative. We had an attorney, an estate/investment strategist, and a State OSHA inspector as presenters. I'd like to thank Jamie Archer, with L.G.& E. and Josh Quinn, with NECA for setting up the presenters. Also, NECA picked up the cost of the morning doughnuts and lunch. Thank you very much! And a thanks goes out to Mark Yates for picking up the doughnuts. We had 25 people in attendance.

I will be overseeing the March 14th presentation. It will be on Article 625 Electric Vehicle Power Transfer System. This was a topic that many of our members requested some information. Hopefully you will be able to attend.

As mentioned last month, we have been told that the Department of Housing, Building, and Construction is giving license holders until May 16, 2022 to obtain their continuing education requirement(s) that may have been delayed under the State of Emergency. In addition, the Department has gone to a new data base system which will no longer allow users to search for their licenses or their continuing education hours. We have also been told by some members that their hours were not transferred from the old data base into the new one. So, for more information or any problem please call the Department at (502) 573-2002.

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MARCH 14, 2022 Code Program

Sign-in 6:30 P.M. - Program at 7:00 P.M.

ELKS LODGE # 8 - 2824 KLONDIKE LN -

Our March program will address the code requirements under NEC Article # 625 - Electric Vehicle Power Transfer System. We have had a few members ask that we address this article.

This program will be presented by our President, Steve Willinghurst.

We encourage you to participate by asking questions.

See you Monday Evening at 6:30 pm.

Bring a Friend!!

Dennis will go over the Code Questions in the March 2022 Wire.

Supporting our Industry

**** Electrical Equipment Needed ****

ECHL is committed to supporting the electrical industry and the training required to further the trade. In doing so, we ask for your old equipment / inventory to use for training.

ECHL contractors and or suppliers - if you are cleaning out your old Inventory and have material (electrical equipment) that is taking up space in your warehouse, the Iroquois High School Electrical Program is seeking material that can be used for teaching students about electrical products they may encounter in the field. Educating our future apprentices is the goal.

IEC is the hub for most of the surrounding area's for the electrical trade training schools. She has contacts for Jefferson County, Bullitt County, to Hardin County.

If you would call, Erin Pretorius or Stephanie at 502-493-1590 or email Erin at erin@iec-kyin.com to make arrangements for pick up or delivery.

Old or new!

Thanks for your support!

MARCH Code Questions

1. In an instant oil changing facility what Class and Division would the pit be if it was unventilated? Where would you find this answer in the 2017 NEC?
 YES NO
 Section _____

2. Can disconnecting means be rated at 100% of a capacitor bank? Where would you find this answer in the 2017 NEC?
 YES NO
 Section _____

3. Can the conductor that supplies a Fixed Load phase converter be rated at the nameplate? Where would you find this in the 2017 NEC?
 YES NO
 Section _____

4. Can a molded case switch be permitted as a controller for a motor? Where would you find this in the 2017 NEC?
 YES NO
 Section _____

5. You have 25 feet of 8" X 8" sheet metal auxiliary gutter that needs to be installed above a ceiling, how many supports would this require? Where would you find this in the 2017 NEC?
 1) 2 3) 4
 2) 3 4) None of above
 Section _____

6. Can a galvanized LB be used with stainless steel conduit? Where would you find this in the 2017 NEC?
 YES NO
 Section _____

Code Corner

Emergency Systems Article 700

I received a call recently regarding 700.3 **Test and Maintenance** from a contractor that had installed Emergency generator in a hospital and the AHJ ask for documentation of the testing of the complete system from the manufacture of the generator. Section 700.3 (A) **Conduct or Witness Test:** States, The authority having jurisdiction shall conduct or witness a test of the complete system upon installation and periodically afterward. The contractor did not have the AHJ there during the testing and the AHJ requested another test under load by the manufacture for him to witness. Under Section 700.3 there are other items to consider when installing and emergency generator that need to be follow to be in compliance.

Section 700.3(B) **Testing Periodically:** Systems shall be tested periodically on a schedule acceptable to the AHJ to ensure the systems are maintained in proper operating condition.

Section 700.3(C) **Maintenance:** Emergency systems equipment shall be maintained in accordance with manufacture instructions and industry standards.

Section 700.3(D) **Written Record:** A written record shall be kept of such test and maintenance.

Section 700.3(E) **Testing Under Load:** Means for testing all emergency lighting and power systems during maximum anticipated load conditions shall be provided.

Section 700.3(F) **Temporary Source of Power for Maintenance or Repair of the Alternate Source of Power:** If the emergency system relies on a single source of power, which will be disabled for maintenance or repair, the emergency system shall include permanent switching means to connect a portable or temporary alternate source of power, which shall be available for the duration of the maintenance or repair.

If you are installing an emergency generator you may want to consider contacting the AHJ before to allow them to witness the testing of the emergency system. This could save you some time and headaches as well.

Submitted by Dennis Steier

PRESIDENTS LETTER CONT'D

Hope you will be able to attend the March 14th meeting. It starts at 7:00 pm with sign-ins beginning at 6:30 pm. The location is at the Elks Lodge 2824 Klondike Lane.

As Always Stay Safe and Work Safe
Steve Willinghurst
ECHL President

LG&E NEWS

Off/On's

Some of you may have experienced disappointing news that the Company is backed up in scheduling Off/On's in order for you to do certain types of work for your customer. Early appointments are popular and causes scheduling to become backed up.

There are times in which we can schedule an additional appointment around 10:00 am in addition to the popular 8:00 am IF the second job is being conducted in the same vicinity. This is something the locator tries to work out when possible. The next available time for that day is 12:00 noon. This time is usually available.

You may want to consider changing the starting times for your crews to noon. That may not be popular with your workers, but it will prevent you from having to wait 3 weeks or more for the ideal time desired. Food for thought.

*Submitted by Henry Ford
Team Leader Electric Design*

Top Three Code Violations Louisville Metro Inspections

MARCH 2022

These violations are costing you time and money.

1. Electrical equipment shall be installed in a neat and workmanlike manner.

NEC Article # 110.12
Mechanical Execution of Work
2. Nonconductive coatings on surfaces to be grounded shall be removed from threads and contact surfaces to ensure good electrical continuity or be connected by fittings designed to make such removal unnecessary.

NEC Article # 250.12
Clean Surfaces

3. Where none of the bonded parts is in direct connection with pool water, the pool water shall be in direct contact with a corrosion resistant conductive surface that exposes 9 square in. of surface area to the pool water at all times.

NEC Article # 680.26(C)
Pool Water

Please review the NEC articles above. Each of these articles are associated with a violation. Please keep in mind to follow through with the current approved CODE..

Being Turned down on a project, you lose money and time required to return to the job site for repairs to correct the violation.

We hope this will help save you time and money on inspection fees by reviewing the articles and making sure you have not violated the code before calling for the initial inspection.

Submitted by:

Arnold Hornback

Five Trends Shaping the Residential Lighting & Control Industry

Top trends electrical contractors should be watching in order to stay on top of the growing smart home market

Over the past 18 months, the world changed at a staggering pace. During the COVID-19 pandemic, technology that, in the past, may have been adopted over a period of months or years was implemented seemingly overnight. Nowhere was this more evident than in the residential market as homes evolved from places to live and relax, as well as where we work, study, learn, watch first-run movies, and more.

It appears this trend will continue even as the pandemic evolves: a FlexJobs survey from May shows 96% of workers desire some form of remote work, and 65% of respondents report wanting to be full-time remote employees post pandemic. In a September “*deep dive*” survey by CEPRO, integrators report almost half (47%) of their residential projects included lighting controls, lighting fixtures, and/or motorized shades. They also saw a 44% increase in the number of residential lighting projects over the past year.

Electrical contractors have an opportunity to expand their business into the residential market – or to grow their residential business if they’re already in it. Here are the top residential lighting trends for electrical contractors to watch in the new year and beyond:

1. Wireless Lighting Solutions

Even before the pandemic, we were seeing a switch to wireless lighting in commercial spaces. The same benefits that make wireless solutions desirable for facility owners and managers also make it an ideal choice for residential clients: It’s flexible, scalable, and requires less time and cost to install. Residential wireless solutions allow homeowners to add a second wireless switch anywhere they need it without the disruption of cutting holes, pulling wire, or installing an electrical back-box. Electrical contractors just replace the single pole switch with a smart dimmer and mount a remote with adapter and wall plate.

2. Labor Shortages

Wireless solutions address the ongoing labor shortage plaguing electrical contractors. Even before COVID-19, finding skilled workers could be challenging. Because wireless is easier and faster to install, you can do more with the team you have.

Surge Protection Cont’d

3. Smart Lighting

Smart lighting for the home is another feature more and more customers are seeking. Lighting can help set the mood of a space and is increasingly easier to control through remotes, voice control, and apps. Smart, networked lighting solutions allow residential space to evolve at the touch of a button or a voice command: the den becomes an office; the dining room transitions from class to dinner party; the family room becomes your customer’s personal theater

4. Vacation Homes

Another opportunity for residential electrical contractors is helping customers light second homes. Sales of vacation homes rose by 16% in 2020 over 2019, and the trend is continuing this year with sales up 33%. How can homeowners keep their home base safe when they’re at the vacation home? And vice versa? Electrical contractors can help by educating their customers about smart lighting solutions so homeowners are never in the dark, whether they’re home or away. The ideal smart lighting solution should have an easy-to-use app that doesn’t require extensive client training so homeowners can change and add schedules as their needs evolve.

5. Landscape lighting

Customers can increase curb appeal and safety with the right landscape illumination. With longer days and the outdoor season right around the corner, you can delight your customers with outdoor lighting control solutions that make their lives more pleasant and convenient. Smart lighting solutions allow homeowners to schedule lights to turn on sunset and off at midnight, for example.

The residential market opens new opportunities for electrical contractors to grow their business. Stay up-to-date on the top trends homeowners care about, and partner with trusted manufacturers who have a track record of providing outstanding products and services. Many manufacturers offer robust, user-friendly training programs to help you learn more so you can best serve your customers.

Joe Guellnitz is the Director of Product Management at Lutron Electronics.

Source: Internet Search: EC&M Magazines –Article by Joe Guellnitz, January 25, 2022