MINUTES
General Membership Meeting
B. P. O. E Lodge #8, 2824 Klondike Lane, 40218
November 11, 2024

Call to Order:

- President - Steve Willinghurst (7:00 PM)

Invocation:

- Jerry Curry

General Business:

- Approval of the minutes from the October 14, 2024 General Membership Meeting as posted on the ECHL website. A motion was made, seconded and passed to approve the minutes.

Announcements:

- The status of the approval of the 2023 National Electric Code (NEC) by the state of Kentucky was reviewed again by Steve Willinghurst. This will be an ongoing announcement until it is determined all ECHL members are informed of changes.
    - A meeting on August 13, 2024 before the Administrate Regulations Review Subcommittee approved the following proposal regarding the 2023 NEC for one family homes, two family homes, and townhouses.
    - Sections 210.52(C), 230.67, and 314.27(C) shall not be mandatory until July 15, 2026. The applicable provisions of the 2017 NEC shall apply until then.
    - The 2025 provisions will apply to commercial, industrial, and multi-family homes.
    - The requirement for GFCI protection for personnel on receptacles over 125-volt listed in 2023 NEC sections: 210.8(A), 210.8(D)(8), (9), (10) and (11) shall not be mandatory until a revision is made to the September 5, 2023 edition of UL 943 Ground-Fault Circuit-Interrupters and the October 5, 2023 edition of UL 101 Leakage Current for Utilization Equipment.
- An announcement was made regarding the Kentucky Electrical License renewal process: beginning July 1, 2024, the State has moved to a two year renewal process. When a renewal is made after this date it will be for two years. The license renewal cost will also be for two years. On the next license renewal, two years later, 12 hours of continuing education will be needed to renew.
- A discussion about some of the issues with the state licensing department concerning the adding and updating the continuing education hours on the state's database.

Electrical Code Program

- Steve Willinghurst continued his presentation on the 2023 code updates to let the members know what to expect when the 2023 NEC is approved by the state.
- Some of the NEC changes that were reviewed:
    - Article 100 (Definitions) – All Definitions for the NEC are now found in Article 100.
    - Article 100 (Definitions) – Class 4 Circuits
        - Class 4 circuits are fault-managed power systems (FMPS) that can deliver hundreds or thousands of watts of power at up to 450V AC or DC

        - Class 4 circuits have a transmitter at the power source and a receiver near the load that constantly monitor the circuit for faults. If a fault is detected, the circuit shuts off almost instantaneously.
        - Class 4 circuits are considered a safe alternative to AC power. They offer the safety of low-voltage power, but with close to 20 times the power of Power over Ethernet (PoE). They also have nearly perfect safety built-in, with virtually zero risk for electrical shock or fire.
        - Class 4 circuits can be used in many applications, including:
            - Wireless communications
            - Intelligent buildings
            - Controlled environment agriculture (CEA)
            - Data centers
            - Large venues, like stadiums, factories, and airports
    - Article 250 – Grounding and Bonding:
        - Article 250.104 (B) – Other Metal Piping
            - Metal piping systems that are likely to become energized must be bonded. This includes Gas piping, compressed air lines, vacuum system piping, medical gas piping and the like. Bonding the piping systems ensures that if they become energized, then the overcurrent device supplying the circuit associated with these systems will trip.
            - The bonding conductor is sized from Table 250.122 using the rating of the circuit that is likely to energize the piping system. The metal piping system can be bonded to any of the following:
                - Equipment grounding conductor for the circuit that is likely to energize the piping system
                - Service equipment enclosure
                - Grounded conductor at the service
                - Grounding electrode conductor, if of sufficient size
                - One or more grounding electrodes used
    - Article 220 Branch Circuits, Feeder and Service Calculations
        - Article 220.70 – Energy Management Systems (EMS)
            - A system consisting of any of the following: a monitor(s) communications equipment, a controller(s), a timer(s0 or other device(s) that monitors and/or controls an electrical load or a power production or storage source
- Discussion of the new code changes were an integral part of the presentation.

The code questions included in the November 2024 Wire newsletter were answered by Dennis Steier.

The winner of the 50/50 drawing ($42.00) was Mike Noplis.

Attendance: 43 Members and Guests

Respectfully Submitted: David True