

## ABOUT THIS SEMINAR:

The 2023 National Electric Safety Code (NESC) and the American Public Power Association (APPA) 17th edition Safety Manual have been released and contain several changes. NESC is an internationally recognized standard for the minimum safety requirements for electric utilities. The new 17th edition of the APPA safety manual incorporates the 2023 NESC changes and other industry issues.

Understanding the contents of the NESC and the APPA Safety Manual provide a basis for safety in electric utilities. There are many changes in this cycle of the NESC and in the safety manual. This class will focus on some of the more impactful changes. Instructor will also provide a brief refresher training on the requirements for face shields. See the next page for the presenter's bio!

## EXAMPLES OF APPA CHANGES:

- New Arc Flash table for 1kv to 36kv equipment
- Changes in grounding requirements
- The dangers of Small Cell Antenna and other communications in the supply space
- RF safety training
- Back-feed from all sources including distributed energy resources
- Documentation of tail gate meetings
- Aerial equipment requirements
- Specific playground requirements
- Mandatory equipment distance from fire hydrants

\*\* All electric departments will receive one APPA Safety Manual on site \*\*

**Please contact Patrick Bonnot for  
any questions about the seminar:  
[pbonnot@mirma.org](mailto:pbonnot@mirma.org) or  
(573) 817-2554**

## SEMINAR DATES:

- April 20 - Chillicothe Municipal Utilities Meeting Room**  
920 Washington  
Chillicothe, MO 64601
- April 21 - Centralia Community Room**  
114 S Rollins  
Centralia, MO 65240
- April 27 - Jackson Missouri Civic Center**  
381 East Deerwood  
Jackson, MO 63755
- April 28 - Houston Storm Shelter**  
191 N First St  
Houston, MO 65483

## TIME/OUTLINE:

- Registration: 9:30 - 10:00 am
- Seminar start: 10:00 am
- Lunch (provided): 12:00 - 1:00 pm
- Seminar end: 3:00 pm (approx.)

## REGISTRATION:

- Advanced registration is required and **attendance will count towards points on the Annual Loss Prevention Evaluation for members with electrical distribution. Registrations will be completed online: [Electric Seminar REGISTRATION CLICK HERE](#)**
- This seminar is appropriate for supervisors and linemen. This seminar is not focusing on the pole attachment agreements addressed at the March 1st MPUA meeting.
- The **registration fee is \$110 per person**, which includes lunch and breaks. [Please complete the ONLINE registration by April 18<sup>th</sup>](#). Late registrations will be subject to an additional \$50 per person fee.
- Cancellations may be refunded until April 18<sup>th</sup>. Please contact Terri at [tcrane@mirma.org](mailto:tcrane@mirma.org) to cancel.

No electric distribution? If your entity does not have electrical distribution, but your employees work at elevation and are exposed to small cell antenna output while servicing streetlights, water towers or other aerial work in proximity to small cell antennas, then your attendance is also requested to learn about the new standards for RF radiation. While this RF exposure is required to be “safe” when measured at 8 feet from the ground, the exposure when working in closer proximity is hazardous and new standards apply. Cellular companies in coming years will be expanding the use of small cell antennas and the potential exposure to RF will most likely increase.

## PRESENTER:



Brent McKinney, P.E., has worked for 35 years in various positions in the electric utility industry. He received a bachelor's degree in electrical engineering and master's degrees in electrical engineering and engineering management from the Missouri University of Science and Technology in Rolla, Missouri. He began his career in 1986 as an engineer at Laclede Electric Cooperative. Over his five-year career at the cooperative, he designed several hundred miles of distribution extensions and relocations. As the director of engineering, he was responsible for all aspects of electric line engineering of the cooperative. In 1991, McKinney became an engineer at City Utilities of Springfield, Missouri. In that position, he designed a significant number of transmission, distribution and fiber optic extensions and relocations. In 1992, he was promoted to senior engineer and assumed supervisory responsibility for all electric line transmission and distribution engineering. In 1998, he became manager of engineering and tree management. And in 2001, he was promoted to director of electric transmission and distribution, taking full responsibility for all aspects of the electric system other than generation. He remained in this position until his retirement in 2020.

McKinney has been highly active with the American Public Power Association (APPA), serving as chair of virtually every APPA committee and assisting in the development of the Reliable Public Power Provider (RP3) program, later serving as chair of the RP3 Review Panel. He has been equally active with the Missouri Public Utility Alliance. Over the past 20 years, he has worked extensively with the National Electrical Safety Code® (NESC®; published by the Institute of Electrical and Electronics Engineers Standards Association) and is currently secretary of NESC Subcommittee 8 (Work Rules). He has taught NESC courses throughout the United States and internationally.

