

CREIA meeting minutes

01/19/21

Attendance: 12

Meeting Start time: 6:00 PM

Pre-Meeting Minutes:

1. Mike – New V.P.
2. State board of CREIA, thinking of changing credits for roles for CECs.
3. Donating \$750.00 to CHILAC for 2020
4. Acknowledge Steve Parish for hosting meetings
- 5.

Main Meeting minutes: Electrical toolbox continued

1. Sub panels
 1. Approved ground bar is required in sub panels
 2. Ground bar can either be directly attached to case or with a bonding lug
 3. Every remote building requires a disconnecting means. You can have a main or 6 breakers. This includes:
 1. Detached garages
 2. Outbuildings
 4. These must be readily accessible, near where the conductors enter the building or structure
 5. Pre-2008 feeders to outbuildings could be either 3 wire or 4 wire feeders. After 2008, can only be 4 wire feeders.
 1. 3 wire feeders cannot have any metal pathway between outbuilding and main structure. 3 wire feeders must have neutrals and grounds bonded together. Outbuilding must have a separate grounding method (i.e. driven rod)
 2. 4 wire feeders must have neutrals and grounds isolated
 3. Grounding electrode is not required if single breaker is all that's provided to outbuilding
2. Equipment Grounding Conductors (EGC)
 1. Flexible metal conduit always require a separate grounding wire to motors
3. Receptacles
 1. Always report damaged or scorched outlets
 2. Receptacles should not be installed face up
 1. Except if its approved
 2. Report if in attics, especially without covers
 3. 15 amp outlet is fine to install on 20 amp circuit. 20 amp outlet cannot be installed on a 15 amp circuit
4. Dryers and ranges

1. Since 1996, 4 conductors are needed.
5. Panel locations
 1. Must be vertical
 2. Cannot be in crawlspace, ceilings, inside cabinets, closets, or shower surrounds. Must have working space to the ground. Cannot be exposed to physical damage
 3. Prohibited locations by NEC:
 1. Bathrooms - 1983
 2. Stairways - 2008
 3. Clothes closets or storage closet - 1981
 4. Fire resistant rated walls (may be allowed in newer homes)
 5. Corrosive environments
6. Bad fed breakers
 1. Must be secured in place, not easily removed
7. Breakers
 1. Breakers installed vertically, up is on, down is off – 1984
 2. This is the same rule for switches
 3. Handle ties must be the type recommended by the manufacturer. Not nails, wire, etc.
8. Conduit
 1. EMT (electrical metal conduit) needs to be water tight
 2. Bushings should have smooth edges to protect wires
 3. FMC (Flexible Metal conduit) rusts. Cannot be in contact with earth
 4. FMC could be used for the AC.
 5. Rigid conduit is never allow
 6. Liquid Flex metal conduit (FLMC) is only allow at AC – 2008
9. All 120 volt branch circuits are allowed to be multi-wire circuits

Last Slide: 321

Speaker: Steve

Meeting end time: 8:41 pm