Date: 01Aug2017.  
Location: Santa Ana Elks Lodge, 212 S. Elk Lane, Santa Ana, California.  
Called to order by Henry Martinez at 12:08 p.m.  

Self introductions were performed by all attendees.  

Approval of the minutes for May and June postponed.  

**Treasurers Report**  
The Treasurer's report was given by Henry Martinez.  

**Membership Comm. Report**  
Postponed.  

**Old Business**  
None addressed.  

**New Business**  
None addressed.  

**Code Questions**  
Steve Schinko asked for the group's opinion on the installation of a wall to create a path greater than three feet to the edge of an egress. The consensus was that such a wall does provide Code compliance.  

Steve Schinko also asked about the requirements for a grounding-electrode system at separate buildings. Scott advised that a grounding-electrode system is required at each separate building, as is bonding of metal piping systems; he cautioned that there should be no bonding jumper.  

**Inspector Time**  
None taken.
**Contractor Time**

Tom Griffith spoke about LED retrofits for 2x4 luminaires. He spoke of two types: 1) lamps with built-in drivers that can be line connected at 120 or 277 Volts, or can be connected to a ballast; and 2) lamps that must be connected to a ballast. He explained that only the lamps that must be connected to a ballast qualify for a SCE rebate, even though the lamp life will likely far exceed the ballast life (30-50 khr lamp v 5-6 khr ballast). He further explained that SCE won’t rebate for the line-connected lamps because installing such requires an electrical permit while connecting directly to an existing ballast does not require such permit. Rich Berman with UL spoke briefly about the listing/classification of the two methods. Rich added that the line-Voltage kit has a label: do not replace lamps with original lamps. Tom concluded that most of his customers opt for the line-connected lamps, and forgo the application for the SCE rebate.

Tom Kelly with Kelly electric: existing 75 deg wire connected to 90-deg new luminaire. Rich Berman explained that he may be able to splice a length of 90-deg wire to connect to the luminaire or install an insulating sleeve over the existing wire.

Tom Kelly also asked whether the attending inspectors would require two ground rods at a separate building. Scott Davis replied that the Code requires such unless it can be demonstrated that the ground resistance is less than 25 ohms. Scott added that: 1) auxiliary electrodes do not have to be connected to the required grounding-electrode system; and 2) per 250.53(3) info note, separation of the rods should be twice the length of the longest rod.

**Consultant Time**

None taken.

**Manufacturer Time**

**Utility Time**

None taken.

**Testing Lab Time**

Uriah Edmunds with TUV Rhineland introduce himself. He spoke briefly about the TUV Rhineland mark.

Rich Berman with UL mentioned that he was accompanied by UL's program manager for their west-coast field evaluation service. Rich went on to explain that he (Rich) is not with the field-evaluation side but is with the regulatory side at UL. He also touted the resources of the UL
website, especially productspec. Rich reminded the group that the deadline for the NEC 2020 public input is 09 September.

**Education Program: Analysis of Changes, 2014 NEC.**
Presented by Scott Davis.
began at 12:53 p.m.
Scott spoke about the following.

700.8 Surge Protection (Emergency Systems)
700.12(F)(2)(3) Exception Installation of Unit Equipment ....and lock-on device Cannot use multi-wire system for emergency lighting.
700.19 Multiwire Branch Circuits (see "IAEI slide" photo).
700.24 Directly Controlled Luminaires: LED luminaires are not all listed for emergency systems.
700.28 Selective Coordination (Emergency Systems).
620.62, 701.27, and 708.54 (COPS).
702.7(C) Signs for Power Outlet (Optional Standby Systems): warning sign required: bonded or floating neutral. John Jansen: electrocution from improperly connected 277/480V generator.
702.12 Outdoor Generator Sets (two sections) 702.12(A) Permanently >15 kW; 702.12(B) Portable Gen 15kW or Less.
705.12(D) Point of Connection (Utility-Interactive Inverters).
725.2 Definitions: Power Limited Tray Cable.
725.154 and Table 725.154
725.179(F) Circuit Integrity (CI) Cable
728 Fire-Resistive Cable Systems
Ch 9 Tables
Table 1: cables as well as conductors for conduit fill: now use elliptical cross section.
Tables 5 and 5A.
Example D7.

Scott concluded by mentioning that he would e-mail an ADA-rules pdf to whomever requests such.

Adjourned by Henry at 2:13 p.m.

Minutes respectfully submitted by Dan Vaughan.