MINUTES
Orange Empire Division
International Association of Electrical Inspectors

Date: 01Nov2016.
Location: Santa Ana Elks Lodge, 212 S. Elk Lane, Santa Ana, California.
Called to order by Henry Martinez at approximately 11:51 a.m.

Stephen Mann introduced himself as a first-time attendee and new hire with the City of Long Beach.

**Treasurers Report**
The Treasurer’s report was given by Suzanne Engelhard.

**Membership Comm. Report**
Jill Fisher reported that we have 123 members.

**Old Business**
Scott asked that attendees electronically submit their e-mail addresses to request a text-only list of Code changes he presented at October educational meeting. Remember to specifically note that request.

**New Business**
Tom Griffith 1) explained access to the new IAEI website, 2) announced that the Division is planning a day-long class for NEC changes, and 3) asked that attendees think about suggestions for education in 2017.

Henry reminded all of the upcoming free NFPA classes on the NEC.

**Code Questions**
An attendee asked if two motors can be protected with a single overload. Scott Davis noted that it could be acceptable for small motors or for listed control cabinets.

Steve Schinko asked the group if they would apply the working space requirements in 110.26 for a residential, multi-meter switchboard with a 1,200-A bus, but with 1,000 A fuses and labeling at 1,000 A max. (This because the load is less than 1,000 A and the standard, off-the-shelf bus rating is 1,200 A.) No attendees said they would require the 1,200-A clearances. Scott noted that such configuration could be encountered at solar-ready distribution equipment.

Trinidad Torres with the County of Orange described an installation at a parking-lot gate. The power for the gate arm and its associated digital equipment is provided by a GFCI receptacle installed in the gate-arm cabinet. He asked if it would be a Code violation were the contractor to replace the GFCI receptacle with a standard receptacle. Discussion followed, which included questions about the listing status of the cabinet and the comment that exterior receptacles must have GFCI protection. Trinidad suggested that Exception 2 to (4) of 210.8(B) could be applied.

**Consultant Time**
None taken.

**Testing Lab Time**
None taken.

**Contractor Time**
Dave Moore with Sullivan Solar Power spoke about a problem with Murray/Siemens quad-type breakers. He showed pictures of arcing that had occurred at the back-fed breakers, melting adjacent bus. He added that he has notified the manufacturer and UL; and, conducted exhaustive analysis of other components of the installation, including installation practices, to find no evidence of other contributing phenomena. He emphasized that the arcing was only occurring where the breakers were used at the PV backfeed.

An attendee asked if it was acceptable to extend an existing residential branch circuit that contained an undersized equipment-grounding conductor. Henry Martinez responded that he would accept it, and no other attendees voiced objection.

**Manufacturer Time**
None taken.

**Utility Time**

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Gilbert Aceves with SCE passed around a GMA (Generator Metering Adapter), and mentioned that installation guidelines can be found at the SCE website. Discussion ensued about providing an equipment-grounding conductor connection for the customer-owned generating system.

An inspector from the City of Orange described delays of more than two months for SCE to make GMA connections. He added that he needs to see that connection before the permit can be finalized. Gilbert Aceves said he would look into the matter; Dave Moore with Sullivan Solar Power gave a detailed explanation of the complex process to accomplish such connections.

Inspector Time
Suzanne Engelhard announced that Long Beach City College is looking for part-time instructors; Code, Grounding, Motor and transformer classes will be offered.

October minutes approved without dissent.

Education Program: Analysis of Changes, 2014 NEC.
Presented by Scott Davis.
began at 12:52 p.m.

Scott spoke about the following sections containing changes.

210.8(A)(10) GFCI Laundry.
210.8(B)(8) GFCI Garages, Service Bays, and Similar Areas. (Per handbook: Not vehicle exhibition halls/showrooms, nor lawnmowers.)
210.8(D) Dwelling Unit Kitchen Dishwasher Branch Circuit.
210.12 AFCI Protection; readily accessible.
210.12(A) AFCI Protection (in Kitchen and Laundry Areas), and "DEVICES".
210.12(A)(1)-(6) AFCI Protection.
210.12(B) Ex. Branch Circuit Extensions or Modifications- Dwelling Units. Maximum is six feet.
210.12(B)(X2) EXTENSIONS.
210.12(C) AFCI: Dormitory Units.
210.13 GFPE: Branch Circuits per 230.95.
210.17 Electric Vehicle Branch Circuit. (See 625.2.)
210.52(E)(1) and (E)(2) Outdoor Outlets. Readily accessible from grade.
210.52(E)(3) Balconies, Decks and Porches.
210.52(G) Basements, Garages, and Accessory Buildings. (Receptacle required for each car space. Circuit for garage only.)
Adjourned at 1:59 p.m.

Minutes respectfully submitted by Dan Vaughan.