MINUTES
Orange Empire Division
International Association of Electrical Inspectors

Date: 06Dec2016.
Location: Santa Ana Elks Lodge, 212 S. Elk Lane, Santa Ana, California.
Called to order by Henry Martinez at 11:54 a.m.

Self introductions were performed by first-time attendees.

Minutes for November approved without dissent.

**Treasurers Report**
The Treasurer's report was given by Suzanne Engelhard. Henry asked for suggestions for additions for our library.

**Membership Comm. Report**
Postponed.

**Old Business**
None addressed.

**New Business**
None addressed.

**Code Questions**
Dave Moore with Sullivan Solar announced that he brought handouts that address the center-fed-panel, 20% rule.
An attendee asked if a decision had been made regarding an all-day seminar on the Code changes. Tom Griffith replied that Tim McClain with NFPA has offered to come out to CA in February to do presentations at multiple locations.

Scott Davis and Rich Berman (with UL) spoke about the application of the NEC to factory-assembled equipment.

**Consultant Time**
None taken.

**Testing Lab Time**
Rich Berman of UL announced that he had handouts for the product spec function at www.ul.com/productspec.

**Contractor Time**
None taken.

**Manufacturer Time**
None taken.

**Utility Time**
None taken.

**Inspector Time**
Dennis McCreary (La Habra building official) spoke about an Assembly bill for all-gender restrooms, effective March 1st.

An inspector with the City of Orange described a situation in which an SCE "lineman" removed the equipment-ground conductor that a contractor had installed in the sealtite between a disconnect switch and a GMA adapter. Scott Davis commented that that was the correct thing to do. The inspector added that a grounding conductor (#6 bare) was then installed, exterior of the sealtite, from the disconnect to the service ground bus. Scott commented that the disconnect is to be treated as a new service; i.e. a grounding-electrode conductor is required from the disconnect to the grounding-electrode system. Scott added that, because the disconnect is a service switch, a supply-side bonding jumper (ungrounded systems) or a grounded conductor (grounded systems) must be installed to that switch whether or not it will
be carrying current. Henry Martinez pointed out that the disconnect must then be service-rated, with a means for bonding the grounded conductor.

Henry Martinez asked the group how they would view application of the Code to freeze-your-fat facilities; wherein human fat cells are frozen, causing them to die off and be eliminated through the body's natural functions. Henry stated that he had required that Article 517 be applied. Scott commented that it appears that it is not an invasive procedure so essential circuiting is not likely to be necessary. He noted also that "invasive procedures" is defined in the next (2017) Code. Henry added that one of the rooms at the facility is described as an "injection room". Scott noted he would classify injections as a non-invasive, or topical procedure.

**Education Program: Analysis of Changes, 2014 NEC.**
Presented by Scott Davis.
began at 12:31 p.m.

Scott spoke about changes in the following Code sections.

210.52(a)(2)(1) cabinets floor to ceiling are not residential wall space requiring receptacle outlets. However a counter in the cabinet would require receptacle outlets under the next NEC.
210.52(E)(1) and (2) Outdoor Outlets.
210.52(E)(3) Balconies, Decks and Porches.
210.52(G) Basements, Garages, and Accessory Buildings. (2017 Code corrects issues.) Branch circuit for garage is for garage only. One plug for each space. (2017 says <5.5 feet a.f.f.)

During a pause in the presentation, Dennis McCreary (City of La Habra) spoke to the group about the recent fire in Oakland, where thirty-six people perished, encouraging all to see that these kinds of occupancy issues are addressed as soon as possible.

210.64 Electrical Service Areas. (receptacle needed within 50 ft.)

220.3 Additional Load Calculation References. (Note that transformers are 100%-duty rated, therefore, 25% for LCL need not be applied for sizing.) (reference to ".14" should be to ".41" as corrected in the California Code). New line item "Electric Vehicle Charging Equipment"; disconnect required for EVSE chargers. Lighting load calculations may be reduced to match that which is allowed by the Energy Codes of a jurisdiction.
225.52(A) Disconnecting Means Location. (Over 1000 Volts.)

230.30 Installation and Wiring Methods (Underground Service Conductors)
A list of acceptable wiring methods for "Underground Service Conductors" was added at 230.30(B).

230.44 Cable Trays Containing Service-Entrance Conductors. (Warning labels every 10 feet.)
230.82(3) Equipment Connected to the Supply Side of Service Disconnect. Signage required. (A METER DISCONNECT IS NOT A SERVICE DISCONNECT.)

Adjourned at 2:07 p.m.

Minutes respectfully submitted by Dan Vaughan.