



MINUTES

Orange Empire Division
International Association of Electrical Inspectors

Date: 04 May 2010.

Location: Santa Ana Elks Lodge, 212 S. Elk Lane, Santa Ana, California.

Called to order by Randy Buck at 11:45 a.m.

The introduction of first-time attendees included Mark Summers with the City of Irvine, Daniel Windham and Todd Hartwig with the City of Garden Grove, Dennis McCreary and Henry Huang with the City of Tustin, and Steve Knight (sp?) with the City of Huntington Beach.

Motion to accept the Minutes of last month's meeting made by Mark Gleck, seconded by Larry LeVoir and approved without dissent.

Treasurers Report

Postponed until next month.

Membership Comm. Rep by Tom Griffith

144 *current* Division members. (No new members.)

Old Business

Tom Griffith announced that a forum for California Electrical Code Q&A is now on line. Randy Buck added that we can find instructions on how to join the forum on our website by going to http://www.iaeisocal.org/Chapter_News.php.

New Business

Tom Griffith announced that the Border County Division's meeting will be on Tuesday, 10 May and that the announced subject is grounding of high-rise buildings. He added that the Southern California Chapter meeting this month will cover the Analysis of Changes for the 2008 NEC and that this subject will continue for the next 2 or 3 meetings. Tom also told the group that badge announcements were sent out today.

Randy Buck told the group that he and Scott Davis visited a regional task force that was promoting a battery system, designed for residential use, that would be charged from the grid and, at times, provide energy back to the grid. Charging "smart" batteries would occur at night when electricity is less expensive and return the power to the grid during the day. Apparently they also want to be able to use the batteries when the grid is off. He stated that it's in its infancy and asked that we call him or Scott Davis if we see any of it. Scott added that there could be a hazard of Li-Ion batteries exploding and that one system installed now but doesn't match that proposed for residential and, for the 10kW system, the output is much less. Russ Helmick asked if it was in Anaheim and Randy and Scott replied that it was. Randy and Scott went on to discuss the State energy plans and programs.

Tom Griffith moved to pay Scott's dues for another year. Randy Sink of "ETI" seconded; the motion enthusiastically passed without dissent.

Code Questions

None posed.

Consultant Time

Saum Nour of Absolute Consulting Engineers announced that he had prepared a small book covering the three parts of the California Energy Standards and would e-mail that book to those wanting it. Randy Buck opined that the new Energy regulations are going to be very hard for enforcement and compliance.

Testing Lab Time

Rich Burman of UL announced that he had provided 2010 White Books for all attendees. He added that the Compact Disk (CD) edition came out last week and that he can send as many of those as were needed. Rich also mentioned that Compact Fluorescent Lamp (CFL) power quality issues were emerging and asked that he be contacted if anyone had information to contribute. He went on to say that it may be that UL needs to change its testing requirements for CFL. Randy asked if the issue was for plug-in as well as screw-in? Rich replied that he's mainly concerned about the screw-in where change-outs are performed.

Contractor Time

None taken.

Manufacturer Time

None taken.

Utility Time

Obed Lucero (Southern California Edison) shared that he had seen wind generators on top of parking-lot lights in Antelope Valley.

Inspector Time

None taken.

Education Program by Scott Davis: Residential Inspections.

Scott provided handouts covering electrical and energy-code requirements and covered the following items.

Energy-code requirements for residences: closets, kitchens, living & dining rooms, and exterior. Written so that systems cannot be easily defeated.

Box accessibility.

AFCI requirements for sleeping areas.

Steve Schinko: a legitimate nuisance trip may be appliances that are arcing internally. Scott suggested that such appliances may not be listed. Either they are old and pre-Nationally Recognized Testing Laboratory (NRTL) approvals or are imports without a NRTL label.

Smoke detector connections.

Kitchen-receptacle requirements.

Kitchen and bath lighting controls.

Scott first highly recommended and then passed around the DeWalt book for residential, electrical- code references. (ISBN 0-9777183-6-0 for the DeWalt book.)

He then showed color graphics and touched on the following Code issues.

- CBC section 1142A.1 for plug height: 18" to bottom of box.
- Lockout provisions and grounding. (Within sight.)
- Box-fill calculations.
- Temporary services.
- Smoke detectors. (One for each 30 ft of hallway is how they were tested.) Residential: "smoke alarms", not "smoke detectors".
- Kitchen receptacles.
- Dishwasher and disposal connections.
- General-receptacle locations.
- AFCI protection for bedroom outlets.
- 2008 requirements for tamper-resistant receptacles.

- Track Lights and Wet Bars.
- Laundry Room requirements.
- Ranges and Clothes Dryers.
- Bathroom requirements.
- Hydromassage tubs.
- Requirements for garages.
- Storage-space requirements.
- Requirements for building-mounted, exterior outlets. (45-degree rule; damp vs wet locations.)
- HVAC disconnects. (Mechanical-equipment rooms.)
- Overhead service drops.
- Grounding and bonding.
- Sub panels.
- Underground raceways.

Meeting adjourned at 2:02 p.m.

Respectfully submitted by,
Dan Vaughan, P.E.