



IAEI Border Counties Division
Meeting Minutes

Date: February 9, 2010

Time: 12 Noon - No Host Lunch
1 P.M. - Meeting

Location: Sizzler Restaurant (Meeting Room)
3755 Murphy Canyon Road
San Diego, CA 92123

1. Call to Order and Self Introductions

Meeting was called to order by Bruce Barnes, President of the Border County Division, at 1:00 P.M. All in attendance (33) made self introductions. There were three first timers who reintroduced themselves. There was one visitor that wasn't a member.

2. Review and Approval of Minutes

Bruce Barnes mentioned that Tiffany Kirk is still working on getting the software "Naturally Speaking" by Dragon to work. The program is supposed to transcribe the meeting minutes to word document but hasn't quite work as expected.

Minutes from the January 12, 2010 meeting were reviewed and approved.

3. Reports

Treasurer's Report: Steve Jones reported total receipts, dues disbursement from the IO and interest income earned. The treasurer's report was approved as presented.

Steve Jones reported the board of directors was presented with the history of all the transactions that occurred in 2009. The audit of the 2009 books will take place after today's meeting by the audit committee.

Membership: Steve Jones reported one additional new membership as a result of the free 6 months trial period. This is the third new membership in the past four months. Steve accepted Don Howard's application and welcomed him to the IAEI.

Education: Mark Chrysler reported Scott Humphrey will finish the second part of his presentation on PV – 2008 NEC today.

Mark also reported March's education program will be presented by Joe Baber. Joe will present an Overview of NEC Article 702 Optional Standby Systems.

Lastly, Mark reported the city of Oceanside announced a new partnership with the San Diego Area National Electrical Contractors Association, IBEW San Diego Electrical Training Center and the San Diego Border Counties Division of the IAEI. The partnership has developed free electrical training to start March 3, 2010 and continue every Wednesday for the following 8 weeks. The city of Oceanside will be hosting these free electrical training to all AHJ inspectors and IAEI members. The training will be held in the City of Oceanside Library Community Room.

Joe Baber reported the IBEW San Diego Electrical Training Center have cancelled the third Tuesday classes due to the lack of interest. Joe also reported that the partnership is trying to provide the free electrical training in the southern area to make it more accessible for those that can't make it to Oceanside. The partnership is looking to have these courses in the city of Chula Vista. Hopefully, these free electrical training will help the electricians and the AHJ to be on the same page and maintain consistencies. This would extend to the rest of the industry to have an understanding and better working relationship with one another.

A "Certificate of Completion" will be issued at the end of each course. To RSVP or for additional information, please contact Steve Jones at SJones@ci.oceanside.ca.us.

Mark Chrysler encourages everyone to browse the IAEI website at www.iaei.org for updated information on the monthly education program.

Steve Jones is asking the jurisdiction members to take the free electrical training flier back to their building officials to encourage them to participate in this awesome free offer. No one will be turned away at these free electrical training.

4. Old Business

Bruce Barnes will set up a meeting with the audit committee later this month to do the tax audit.

Steve Jones is the current president of CEI. Steve has made numerous attempts to reach John Taecker and Tom Weeks but hasn't been successful. The status of CEI is uncertain at this time.

Bruce Barnes reported that Tiffany Kirk is still working on getting the CEU's for the PV presentation.

Pat Healy reported the PV training hosted by the ICC at the city of San Diego was very well received and attended. Pat is working with the education chair to put on another PV training course but perhaps with a different presenter. Mark Chrysler made a suggestion to have the PV training with emphasis on the inspections process versus installation. Steve Jones suggested the ICC invite Scott Humphrey to present the PV training.

Nancy Martinez reported the ICC Electrical Committee is in the process of revising the existing Newsletters to reflect the code cycle change of the 2010 CEC. The existing Newsletters have been assigned to the members of the committee for review and possible revision if necessary. New Newsletters will also be developed to include section 702 - Optional Standby Systems and Transfer Switches, Wind Turbine and Generating Systems and Electrical Vehicle Charging Stations.

Jurisdiction members are involved in the revision and development of the Newsletters. However, if anyone is interested in assisting or have any comments/concern, please contact Nancy. Discussions on the revisions and developments of the Newsletters will take place during the monthly ICC Electrical meeting. The big subject will be PV.

5. New Business

No new business.

6. Education Program – Continued from January’s Presentation

Presenter: Scott Humphrey – Field Label Evaluator with Intertek

Scott covered the following items in his presentation:

- Type MC metal clad cable and AC cable would not meet the requirement of 690.31 (E)
- Amored Cable (AWEZ) is for use in AC circuits only.
- Proposal for 2011 may allow type MC metal clad cable with restrictions.
- 690.33 Connectors
- (D) Grounding Member
- (E) Interruption of Circuit
- 690.34 Access to Boxes
- 690.35 Ungrounded PV Systems
- 690.41 System Grounding
- 690.42 Point of System Grounding
- 690.43 Equipment Grounding
- Extensive Rewrite for 2011
- Galvanic Corrosion
- 690.45 Size of Equipment Grounding Conductors
- 690.46 Array Equipment Grounding Conductors
- 690.46 (C) was edited extensively in 2008
- 690.47 Grounding Electrode System
- 690.47 (C) 1 through 8
- 690.47 (D) Additional Electrode for Array Grounding
- 690.50 Equipment Bonding Jumpers
- 250.97 Bonding for Over 250 Volts
- 690.53 DC PV Power Source
- 690.54 Interactive System Point of Interconnection
- 690.55 PV Power Systems Employing Energy Storage
- 690.56 Identification of Power Systems
- Connection to Other Sources
- 690.64 Point of Connection
- 2008 NEC Requirements Commercial Utility Interactive Systems 690.64 (B)
- OCPD Location
- Storage Batteries

7. Code Question(s) of the Month

Question: In our residential kitchen we’ve specified under cabinet LED strip fixtures instead of linear fluorescent fixtures however the building inspector is asking for paperwork to verify that the LED

fixtures are Title-24 compliant. The LED manufacturer is stating that LED's do not have to be Title-24 compliant. How do I resolve this problem?

Answer: The building inspector is correct on this one. Starting January 1, 2010 the new 2008 Title-24 Building Energy Efficiency Standards establish specific rules for fixtures to qualify as high efficacy. LED lighting must meet the efficacy requirements of Table 150-C in the standards and must be certified by the California Energy Commission. Your best option at this point is to go to the CEC's website and download Appliance Directory which is a database of all appliances, including LED fixtures that have been certified by the CEC. Look under the LED category and find a LED fixture that suits your purpose and specify that fixture. You can provide a printout from the CEC Appliance Directory to the building inspector to document the LED fixture qualifying as high efficacy. Without this CEC certification the LED fixture will need to be considered low-efficacy in the kitchen lighting wattage calculation and will make it difficult to achieve the target of 50% high efficacy wattage that is documented on the CF-6R-LTG-01.

8. Organizational Time

Inspectors – Rusty Anderson asked if any inspectors have read the California Green Building Code. He said it would highly benefit the electricians who do plan check to look it over because there are a lot of changes as of January 2011. Pat Healy mentioned the new Title 24 Regulation that went into effect as of January 2010. Mark Chrysler said he'll do a presentation on Title 24 in April's meeting. There were questions and discussions regarding UL 467, NEC 486 and TA lugs.

Consultants – none

Testing Agencies – Jill Fisher with Intertek re-introduced Scott Humphrey as a new employee to the company and encourages everyone to take advantage of Scott's knowledge and availability for discussions and that he'll gladly answer any questions we may have of him. She also brought coffee mugs for everyone at the meeting. Thank you Jill!

Pat Healy asked a question of a home inspector at the meeting regarding home inspections on PV systems. The gentleman said PV is not part of the home inspection process. PV requires a PV specialist to do the inspection.

Contractors – none

Manufacturers – none

Utilities – none

9. Final Business

No final business.

10. Adjournment

There being no further business, meeting was adjourned at 2:48 P.M.

Next meeting: Tuesday, March9, 2010 at 1:00 P.M.

Respectfully submitted,
Tiffany Kirk
BCIAEI Secretary