



IAEI Border Counties Division **Meeting Minutes**

Date: May 11, 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 (25) made self introductions. There were three first timers in attendance.

2. Review and Approval of Minutes

Minutes from the April 13, 2010 meeting were reviewed and approved.

3. Reports

Treasurer's Report: No updates, Steve Jones was not present.

Membership: No updates, Steve Jones was not present. Nancy Martinez mentioned there are applications available if anyone was interested in becoming an IAEI member.

Education: Mark Chrysler reported next month's presentation will be by Andrew Hoskinson from ETEC. The topic will be on the PEV (Plug In Electric Vehicle), the required infrastructure, the coordination between the utility and the AHJ's and the NEC Article 625.

Pat Healy reported the ICC Plumbing & Mechanical Committee's education for June will be on "Fuel Cells". If you're interested, contact Pat Healy due to the constraint of the room size.

The Division Board is looking at sponsoring training for the 2010 California Electrical Code.

4. Old Business

Nancy Martinez reported per Joe Baber, there are hearings going on right now with the proposed changes to the 2011 International Fire Codes.

5. New Business – None

6. Education Program

Presenters: David Nelson – Bergelectric Corp

Subject: Grounding & Bonding in a "Sky Rise"

The following items were covered in David's presentation:

Service Grounding and Bonding

- General Requirements 250.4
 - A. Grounded Systems
 - 1) Electrical System Grounding
 - 2) Grounding of Electrical Equipment
 - 3) Bonding of Electrical Equipment
 - 4) Bonding of Electrically Conductive Materials and Other Equipment
 - 5) Effective Ground-Fault Current Path
- Art 250.20 (B) Alternating-Current Systems of 50 Volts to 1000 Volts
- 250.24 Grounding Service-Supplied Alternating-Current Systems
 - A. System Grounding Connections
 - 1) General
 - 2) Outdoor Transformer
 - 5) Load-Side Grounding Connections
 - B. Main Bonding Jumper
 - C. Grounded Conductor Brought to Service Equipment
 - D. Grounding Electrode Conductor
- 250.28 Main Bonding Jumper and System Bonding Jumper (D) Size
- 250.66 Size of Alternating-Current Grounding Electrode Conductor
- 250.58 Common Grounding Electrode
- 250.92 Services
 - A. Bonding of Services
- 250.94 Bonding for Other Systems
- 250.102 Equipment Bonding Jumpers
 - C. Size – Equipment Bonding Jumper on Supply Side of Service
 - D. Size – Equipment Bonding Jumper on Load Side of Service
- 250.104 Bonding of Piping Systems and Exposed Structural Steel
 - A. Metal Water Piping
 - 1) General
 - 2) Buildings of Multiple Occupancy
 - B. Other Metal Piping
 - C. Structural Metal
- 250.110 Equipment Fastened in Place or Connected by Permanent Wiring Methods (Fixed)
- 250.114 Equipment Connected by Cord and Plug
- 250.122 Size of Equipment Grounding Conductors
 - A. General
- 250.130 Equipment Grounding Conductor Connections
 - A. For Grounded Systems
- 250.30 Grounding Separately Derived Alternating-Current Systems

- A. Grounded Systems
 - 1) System bonding Jumper
 - 2) Equipment Bonding Jumper Size
 - 3) Grounding Electrode Conductor
 - 4) Grounding Electrode Conductor, Multiple Separately Derived Systems
 - a. Common Grounding Electrode Conductor Size
 - b. Tap Conductor Size
 - c. Connections
 - 5) Installation
 - 6) Bonding
- 250.104 Bonding of Piping Systems and Exposed Structural Steel
- D. Separately Derived Systems
 - 1) Metal Water Piping System(s)
 - 2) Structural Metal
 - 3) Common Grounding Electrode Conductor

7. Code Question(s) of the Month – None

8. Organizational Time

Inspectors – None

Consultants – None

Testing Agencies – None

Contractors – Don Howard asked if the inspectors were responsible for verifying the California certifications of electricians on projects. A few of the inspectors answered that it wasn't the responsibility of the inspectors but the responsibility of the Division of Apprenticeship Standards (DAS).

Manufacturers – Steve Schinko asked "When you have a separate building being feed from the main service and you're running your ground to the building, does the equipment disconnect have to be listed suitable for service? Mark Chrysler answered "no" because it's only 3 wires. Pat Healy said that in the 2008 NEC, it will be 4 wires and would need to be listed suitable for service.

Utilities – Bruce Barnes reported the updates to the SDG&E Service Standards & Guide will be available along with the presentation of changes to take place the first quarter of 2011.

9. Final Business – None

10. Adjournment

There being no further business, meeting was adjourned at 2:20 P.M.

Next meeting: Tuesday, June 8, 2010 at 1:00 P.M.

Respectfully submitted,

Tiffany Kirk
BCIAEI Secretary