

IAEI Border Counties Division
Meeting Minutes

Date: April 13, 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 (28) made self introductions. There were no first timers.

2. Review and Approval of Minutes

Minutes from the March 9, 2010 meeting were reviewed and approved with an edit to the Inspectors section of the organizational time requested by Joe Baber. The minutes were revised accordingly, and sent to the Chapter.

3. Reports

Treasurer's Report: Steve Jones was not present but provided the treasurer's report.

The treasurer's report was approved as presented.

Membership: Steve Jones was not present. However, through Nancy Martinez, Steve said there were no changes.

Education: Mark Chrysler.

Mark reported that he and Nancy Martinez are working on a future 2008 NEC seminar to cover the changes with the 2008 NEC.

Tiffany Kirk reported that she and Bruce will delay the presentation on the Service Standards update until early 2011. Joel Pointon from SDG&E will be the presenter in June. Joel will present an overview of programs centered on Plug-in Electric Vehicles (PEV), and the anticipated impact PEV charger system installations will have on building departments and inspection services divisions within the jurisdictions.

Nancy Martinez indicated that she will be the contact point with the San Diego Chapter of the ICC to coordinate efforts to streamline the permits process for PEV charger installations in the various jurisdictions. The ICC electrical committee will develop a newsletter to include requirements for the permits, plans, installation, etc. All of this is in response The PEV "Nissan Leaf" will be available in the San Diego area late 2010. The load the PEV charger draws for the Leaf is approximately 2.4kw.

4. Old Business

Joe Baber reported that Karen from NECA is working with Andrew McGuire from the City of Chula Vista to finalize a class on Title 24 to occur at the end of May. The location will likely be in the area of south San Diego. This seminar will be free of charge.

5. New Business

A new member to the BCIAEI suggests that the name of each member that attends the monthly meeting be added to the meeting minutes to help familiarize him to the other members. Bruce Barnes said he'll bring it up at the board of directors meeting for discussion.

6. Education Program

Presenters: Mark Chrysler and Martin Montessoro – City of San Diego

Subject: Non-Residential Title 24

The following items were covered in Mark and Martin's presentation:

- What's new for 2008
 - Revisions and clarifications to S119, Mandatory Requirements for lighting control devices
 - Occupant Sensors, Motion Sensors, and Vacancy Sensors S119 (d)
 - Occupant Sensors – Non residential lighting applications
 - Motion Sensors – For outdoor lighting applications
 - Vacancy Sensors – For residential manual-on/automatic-off applications
 - http://www.energy.ca.gov/title24/2008standards/nonresidential_manual.html
 - Compliance/Acceptance Indoor lighting forms
 - Certificate of Compliance Forms S10-103(d)1
 - LTG-1C Certificate of Compliance and Field Inspection checklist
 - LTG-2C Lighting Controls/Credit worksheet
 - LTG-3C Indoor Lighting Power Allowance
 - LTG-4C Tailored Method worksheet
 - LTG-5C Line Voltage Track Lighting worksheet
 - Construction Phase/Installation Certificate forms S10-103(a)3A. To be used when changes made to the approved lighting design plan
 - LTG-INST 2 of 2
 - OLTG-INST 2 of 2
 - SLTG-INST 2 of 2
 - Acceptance Testing Forms S10-103(a)3B
 - LTG-2A 3 of 3 Lighting Controls
 - Outdoor lighting Acceptance Testing forms (new)
 - Outdoor Acceptance Testing forms S119(d) and S132(a)
 - OLTG-2A 3 of 3 Outdoor Motion Sensor Acceptance
- Compliance and Enforcement Process 2.2
 - Permit Application
 - The New forms are used
 - The LTG-1C is signed by the author and the designer
 - All of the forms that justify the design must be included on the plans
 - Plan Check
 - The square foot shown on the Title sheet may be used to calculate the area for allowable lighting

- The light fixture (Luminarie) schedule on the electrical plans will be compared with the light fixture schedule on the LTG-2C form
 - Construction –(considered part of pre-con)
 - Lighting Compliance
 - Approved Plans
 - Installation Certificate
 - Changes to the lighting plan
 - Acceptance Commissioning
 - Acceptance Testing
 - Certificate of Compliance
 - Acceptance Testing Process Overview
 - Field Plan Review
 - Construction Inspection
 - Functional testing and verification
 - Certificate of Occupancy
- Acceptance Testing Process
 - Field Plan Review 10.3.1
 - Responsibility for certification of the acceptance testing/verification on the Certificate of acceptance
 - Installing contractor
 - Engineer of record
 - Owner's agent
 - Or other *designee*

Note: The lighting systems represented on Ltg-1C and OTLG-1C forms will require acceptance testing
 - Construction Inspection 10.3.2
 - Purpose of the Construction Inspection
 - To assure that the equipment that is installed is capable of complying with the standards; verifying that the equipment is installed correctly and is calibrated
 - Responsibility for performance of a construction inspection
 - Installing contractor
 - Engineer of record
 - Owner's agent
 - Or other *designee*

Construction inspection to be performed prior to acceptance testing
 - Construction Inspection 10.3.2
 - If work deviates from the Compliance Certificates:
 - LTG-INST, OLTG-INST, and/or SLTG-INST forms are required
 - To be completed by the designated "responsible person*"
 - A licensed:
 - Contractor
 - Architect
 - Engineer

*One who is eligible under Division 3 of the Business and Professional code in the applicable classification
<http://linklaw.org/cgi-bin/code.cgi/CA/bpc/07001-08000/7065-7077.html>
 - Functional Testing 10.3.3
 - Responsibility for performance of the required acceptance requirement procedures
 - A field technician(s)

- A designee identified to perform required acceptance testing mandated by the LTG-1C and/or OTLG-1C forms
 - All required acceptance testing does not require to be completed by one field technician
 - Field technician(s) must sign the Certificate of acceptance
 - Functional Testing – Certificate of Acceptance 10.3.3
 - Responsibility for signing a Certificate of Acceptance
 - A responsible Person*
 - A licensed:
 - Contractor
 - Architect
 - Engineer
- *One who is eligible under Division 3 of the Business and Professional code in the applicable classification
<http://linklaw.org/cgi-bin/code.cgi/CA/bpc/07001-08000/7065-7077.html>
- Certificate of Occupancy
 - Enforcement agencies shall not release final C of O until:
 - All required Certificates of Acceptance are submitted to the Enforcement agency
 - LTG-2A
 - OLTG-2A
- Forms completed

7. Code Question(s) of the Month

Question: Is it legal to add a 300A feeder to a building where a 150A feeder already exists? Each building panel will have a plaque showing the location of all building disconnects.

Answer: Nancy Martinez – This seems to be legal for a service under 230.2. Is it legal under 225.30?

NEC 225.30 Number of Supplies. Where more than one building or other structure is on the same property and under single management, each additional building or other structure that is served by a branch circuit or feeder on the load side of the service disconnecting means shall be supplied by only one feeder or branch circuit unless permitted in 225.30(A) through (E). for the purpose of this section, a multiwire branch circuit shall be considered a single circuit.

- (A) Special Conditions
- (B) Special Occupancies
- (C) Capacity Requirements
- (D) Different Characteristics
- (E) Documented Switching Procedures

NEC 230.2 Number of Services. A building or other structure served shall be supplied by only one service unless permitted in 230.2(A) through (D). For the purpose of 230.40, Exception No. 2 only, underground sets of conductors, 1/0 AWG and larger, running to the same location and connected together at their supply end but not connected together at their load end shall be considered to be supplying one service.

- (A) Special Conditions
- (B) Special Occupancies
- (C) Capacity Requirements
- (D) Different Characteristics

8. Organizational Time

Inspectors – Robert Nagle asked if there are any standards for the support blocks for the conduits that are installed on roofs for photovoltaic applications. Joe Baber commented that things that are floating on rooftops aren't consider part of the structure. There wasn't an answer to Robert's question. Robert mentioned a story regarding the failure of inverters. Scott Humphrey indicated that the failure was caused by the ABB switch failing to open and close its contacts properly which can lead to thermal runaway within the wiring compartment.

Rusty Anderson asked if SDG&E recently tightened up their policy on the review process of automatic transfer switches for commercial applications. Bruce Barnes answered that SDG&E procedure hasn't changed. Rusty indicated that contractors feel there is an extra step in the review process.

Rusty asked about SDG&E Form SD6552 left on gas meter to inform the customer not to bond to the gas meter set assembly. These notices were in the area of Lakeside. Bruce Barnes says he will follow up on this form for further clarification.

Steve Schinko discussed series rating.

Nancy Martinez mentioned that a solar company working for the community college district was required by the DSA to obtain a local fire inspection on his installation. Nancy asked: Do they go through the state fire marshal for this inspection? Joe Baber brought up the ICC code 1511.1 for discussion. There wasn't an answer to Nancy's question.

Consultants – None

Testing Agencies – Scott Humphrey mentioned the redesign of the Xentrax inverters.

Contractors – None

Manufacturers – None

Utilities – Bruce Barnes reported that the SDG&E Smart Meter deployment is under way with target completion the end of 2011. At this time the main focus is residential.

9. Final Business

Tiffany mentioned that the BCIAEI badges are in.

10. Adjournment

There being no further business, meeting was adjourned at 2:50 P.M.

Next meeting: Tuesday, May11, 2010 at 1:00 P.M.

Respectfully submitted,

Tiffany Kirk
BCIAEI Secretary