

# ELECTRICAL INSPECTOR'S MEETING NOTICE

**WHEN: WEDNESDAY, NOVEMBER 14, 2012**

**WHERE: THE GOLDEN CORRAL  
11090 E MISSISSIPPI AVE.  
AURORA, COLORADO 80012  
TIME: 11:45 A.M.**

Please remember, the NECA and IEC offices will only host the **Electrical Inspector's** and **one NECA Contractor Member**, and **one IEC Contractor Member** from each firm, all others must pay \$10. Please make your checks payable to NECA and mail to the Chapter Office, 495 Uinta Way Suite #240, Denver CO 80230

## MEETING AGENDA

Call to order  
Introductions  
Announcements  
Review and Approval of Previous Meeting Minutes  
IAEI Update  
State Electrical Board Update  
Utility Report  
IEC Report  
NECA Report  
NEMA Report  
NRTL Report  
Jurisdiction Reports  
Chairman's Comments  
Field Problems  
Adjournment

*Please bring a copy of this agenda and the minutes with you to the meeting.*

ELECTRICAL INSPECTORS MEETING MINUTES OF OCTOBER 17, 2012  
THE GOLDEN CORRAL

I CALL TO ORDER: 12:06 PM

II INTRODUCTIONS: (see attached schedule)

III MINUTES FROM PREVIOUS MEETING:

M/S Approved as submitted.

IV I.A.E.I.:

Visit our web site at <http://rocky.iaei.org/home.htm>

There were 200 persons in attendance at the Western Section Meeting. Some of the agenda covered 2014 NEC proposals. There are proposals that require AFCI protection for the areas of a residence now exempt, including the kitchen, bathrooms and laundry rooms. The unfinished basement and garage is exempt from the AFCI requirement but does require GFCI protection.

There will be a Soars Grounding class in Walsenburg CO. on November 9<sup>th</sup> 2012.

V XCEL:

There was nothing new to report at this meeting.

[www.xcelenergy.com](http://www.xcelenergy.com);

Updates on installations at:

<http://www.xcelenergy.com/staticfiles/xcel/Marketing/Xcel-Energy-Standard-For-Installation-and-Use.pdf>

VI STATE:

The State is converting their computers to a Google system and is still experiencing some problems.

The on-line apprentice registration web-site is still out of service and won't accept changes and/or upgrades. Steve will contact Holly when it goes back on-line. Holly will send out email notifications.

The inspector position in the Sterling area has been approved. The inspector must live in the area. The inspector position for the Montrose area is still being reviewed for approval.

A ½ time inspector position in the Canon City area may be opening up after the current inspector retires at the end of November. The filling of this position is on hold pending approval.

A PV class, jointly sponsored by IAEI and The Department of Energy, will be held on November 9<sup>th</sup> at the Red Rocks Campus. An email with details will be sent out. There is only room for 50 attendees. This class has a credit of 6 PDU's for wiring methods.

New Apprentice registration is required within 30 days and can be performed on-line at

<http://www.dora.state.co.us/electrical/apprentice.htm>

Access to your personal user account: [www.dora.state.co.us/electrical/cc](http://www.dora.state.co.us/electrical/cc).

VII N.R.T.L.:

U/L:

Mr. Mendez emphasized that service equipment such as panels and/or other gear, that needs to be modified, cannot be done in the field. It must be done at the manufacturer facility. If it is done in the field, then it must be field inspected and re-certified by U/L.

The general customer service number is 877-854-3577.

The U/L hotline phone number is: 1-800-595-9844 with # 3 for the region. I-phone contact # is: [www.ul.connect.com](http://www.ul.connect.com).

Code authority home page: <http://www.ul.com/global/eng/pages/offering/perspectives/regulator/>  
U/L Newsletter: <http://www.ul.com/global/eng/pages/offering/perspectives/regulator/ultimateemail/>

ETL SEMKO:

Jack emphasized that his organization can also do field certifications on modified equipment.  
Telephone: 720-271-0829. Fax: 503-626-7328. E-mail: jack.lawall@intertek.com

VIII I.E.C.:

Tim spoke of their new trainer certification program which RMIEC helped develop. All of their trainer/instructors will have to go through a three section training program to ensure that all of the instructors are qualified to teach their classes.

IX DENVER:

Tony said they are very busy.

X I.B.E.W.: Local 68:

IBEW 68 personnel performed research on the PV DC Arc Fault Interrupter requirement of the 2011 NEC. A handout was passed out that contained many website links to standards, articles, and compliant manufacturers for this product. If you would like scanned copies of the documents found at the various websites, please contact Mary Broderick [maryb@ibew68.com](mailto:maryb@ibew68.com). 303 944-2231  
Retired IBEW 68 Electrician John Soper, who is a Colorado State Representative, spoke about some of the electrical related Bills that he has sponsored including the requirements for residential CO2 detectors and the right for inspectors to check for licenses at the job sites. He also spoke on the failed "Sunrise Review" to get home inspectors licensed. Unqualified home inspectors cost buyers and sellers lots of money by incorrectly requiring electrical modifications and/or protective devices in current codes for older residences. The older structures are still compliant if they were permitted and inspected to the code in force at the time of their construction.

XI FIELD PROBLEMS:

Jason Sharpe of Namaste Solar was not able to attend this meeting but provided Holly with a handout update on the product availability for the requirement of article 690.11. Of the nine manufacturers he contacted there was only one who had their product listed and available for residential scale inverters-3k-7k.

The tabled decision from the September 19<sup>th</sup> meeting, concerning OC protection & disconnect means for direct connected residential ranges and ovens, was brought up for discussion:

Consensus: One jurisdiction required a minimum of a lockable breaker in the panel. All other jurisdictions present did not require a disconnect means within sight or a lockable breaker in the panel.

The tabled decision from the September 19<sup>th</sup> meeting, regarding residential remote controlled smart system components, that require a licensed electrician for installation, was brought up for discussion: This was discussed at the 12/21/2011 meeting and it was determined that licensed personnel must install the new line voltage switching components which must be listed and labeled.

Discussion of Alzheimer's care facilities wiring methods: This type facility does not meet the requirements of NEC 517 "Health Care Facility" and can be wired with NM Cable if permitted by the type of structure.

Discussion of RTD's Passenger Pass Validation Machines being unlisted: The passenger platform area is a public area. Any equipment in this area must be listed & labeled and is subject to permit and inspection.

Discussion of NEC 690.64 "Point of Connection" & related articles 705.12 & 230.82(6): There was disagreement between jurisdictions on the terminology and interpretation for this PV system qualifying as a service. A PV service with line side taps require a minimum 60 amp disconnect and minimum #6 copper conductors. The service designation also affects the bonding points for the GEC & neutral conductors. John Wiles interpretation was also mentioned and will be further researched. There was no consensus. Namaste representatives will provide a drawing of the installation, listing related code requirements so everyone can get on the same page. It will be discussed at the November 14<sup>th</sup> meeting.

Discussion of standby generators load rating verification for installations: Xcel can provide the average load usage for the preceding 12 month period. It cannot provide the peak load demand unless the installation has a peak load meter. The inspector is not responsible for engineering the size of the standby generator for the possible loads. The consensus was that the plans should be engineered, stamped and provided to the inspector for verification of the installation and equipment at the inspection.

Discussion of residential service change/upgrades and required ground rods: Consensus: The installation must meet current NEC grounding/bonding requirements. A 2<sup>nd</sup> ground rod needs to be installed if the < 25 ohms rule cannot be established for the existing ground rod.

XII N.E.C.A.:

Holly purchased a small electronic recorder, to record the meeting. This will help facilitate the transcription of the minutes.

XIV NEXT MEETING:

Wednesday, November 14, 2012  
The Golden Corral

XV ADJOURNED:

Meeting adjourned at 1:13 pm.  
Minutes submitted by Giles Schurman