

ELECTRICAL INSPECTOR'S MEETING NOTICE

WHEN: WEDNESDAY, JANUARY 16, 2013

**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 DECEMBER 19, 2012
THE GOLDEN CORRAL**

I CALL TO ORDER: 12:00 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>

The March 14-15, 2013 Annual Meeting, will include Soars' Grounding classes. There will also be classes the following months in CO. Springs, Durango, Grand Junction, Walsenburg, and Greeley. Dates and subject matter will be posted on the web site at a later date following the March meeting. The 2013 Western Section Meeting will be held in Colorado Springs on September 16-18, 2013.

V XCEL:

www.xcelenergy.com;

Updates on installations at:

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

Xcel will soon put their requirements for re-installing meters on services that have been removed for over 365 days on their web site. These installations must be inspected and approved by the AHJ. Every jurisdiction has its own rules and procedures regarding permitting and inspecting these services. Some jurisdictions require the services be brought up to the current NEC before approval while others only certify it is still safe to re-energize the original installation.

VI STATE:

There was no representation at this meeting.

Steve and Robert were at a workshop for electrical test questions review for the new State electrical and plumbing exam vendor (PSI) who replaced Pearson Vue.

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.

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.

VII N.R.T.L.:

U/L:

There was no representation at this meeting.

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.

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:

There was no representation at this meeting.

Telephone: 720-271-0829. Fax: 503-626-7328. E-mail: jack.lawall@intertek.com

VIII I.E.C.:

There was no representation at this meeting.

IX DENVER:

There is lots of work. There were 185 electrical inspections called-in today. There will be building projects at DIA in the near future.

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

There was no representation at this meeting.

XI FIELD PROBLEMS:

Discussion of lighting in residential garages: Some contractors are installing a GFCI receptacle and feeding the rest of the garage off the load side of the GFCI including the light and the garage door opener which are not required to be GFCI protected. If the receptacle trips then everything is off. This is not a code violation but it is not good electrical practice. Some contractors have also used the OH door opener, which contains a light bulb, as the required lighting outlet. The wall mounted door opener device also has a separate button to turn the light on/off and would satisfy the requirement of 210.70(A)(2).

Discussion for installing a service receptacle at new AC condenser and replacement AC condenser installations: All new installations for existing homes require a GFCI service receptacle.

Replacement AC condensers on existing homes do not require a new GFCI service receptacle. (see minutes of February 15, 2012).

Discussion of Siemens inter-changeable 2-pole breaker: This was tabled until the next meeting.

Discussion of grounding electrode connections: A grounding electrode conductor was run to the cold water pipe and from there to the Ufer. Is this code compliant? Consensus-Yes!

Discussion of Ufer connection: The portion of the re-bar used for the Ufer must have a clean surface, free of mud, crap & corrosion. The connector for the GEC must be listed for the purpose. A cold water pipe clamp is not usually listed for this purpose.

Discussion of anti-oxidation compound on electrical terminals and conductors: Anti-oxidation compound is not required by the NEC. Some conductor manufacturers recommend its use for AL-conductors at the terminations. It is not allowed for use on the screw-lug threads of terminals to facilitate tightening. (See the minutes of August 12, 2012.)

Discussion of installing 12-3 Romex, using one circuit for the bathroom and the other for the living room: Sharing the neutral conductor for a GFCI circuit and a AFCI circuit is not compatible with current breaker designs and will cause one or both breakers to trip.

Discussion of 690.7(C): "In one-and two-family dwellings PV source circuits and PV output circuits that do not include lampholders, fixtures, or receptacles shall be permitted to have a maximum PV system voltage up to 600-volts". A 2014 NEC change will allow up to 1000 volts for this application.

Discussion of Building Integrated Photovoltaics: There are some PV materials that are integrated

into the outer surface or structure of a building and serve as the protective surface of that building, such as solar shingles. The weight of the materials may require roof sheeting that is thicker than the usual ½” normally installed. Many electrical inspectors do the structural and electrical inspection of the PV system. The NEC only addresses the PV electrical requirements but its integrity also depends on the proper support of the system.

Discussion of running the PV wiring under the roof ridge-cap: This is a violation of 690.31(E)(1)&(E)(4).

Discussion of installation of Romex in unfinished areas and across rafters: Protection requirements are in 334.15 and securing across rafters are in 334.30 where it must be supported and stapled at a maximum spacing of 4 ½’.

Discussion of the availability of an AFCI receptacle device: U/L has a listing in the White Book (AWBZ). Currently, manufacturers do not see a wide market for them; therefore, these devices are not yet available at suppliers.

XII N.E.C.A.:

Holly was asked to look into the possibility of getting a second recorded to bring to the meetings in case the other one is unavailable.

Holly was presented with an appreciation card and thanked for her role in supporting the inspector/contractor meetings.

XIII OTHER BUSINESS:

Lonnie was re-elected to serve as Chairman and Giles was re-elected to serve as Secretary-of-the-Minutes for the 2013 meetings.

XIV NEXT MEETING:

Wednesday January 16, 2013
The Golden Corral

XV ADJOURNED:

Meeting adjourned at 12:38 pm.

The minutes were recorded during the secretary’s absence. They were later transcribed and submitted by Giles Schurman