

ELECTRICAL INSPECTOR'S MEETING NOTICE
WHEN: WEDNESDAY, FEBUARY 18, 2015

WHERE: THE TAVERN At LOWRY
7401 E 1ST AVENUE
DENVER, COLORADO 80230
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 UNITA WAY, Suite 240, Denver, CO 80230.

MEETING AGENDA

Call to order

Introductions

Chairman: Greg Cullison Comments

Review and Approval of Previous Meeting Minutes

State Electrical Board Update

IAEI Update

Utility Report

UL Report

NEMA Report

I.B.E.W LU. 68

D.J.A.T.C

IEC Report

Jurisdiction Reports

Field Problems

NECA Report

Good of the Order

Adjournment

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

ELECTRICAL INSPECTORS MEETING MINUTES OF JANUARY 21, 2015

THE TAVERN AT LOWRY

I CALL TO ORDER: 12:00 PM

II INTRODUCTIONS: (see attached schedule). Chairman, Greg Cullison, comments and announcements: Please, when asking a question or commenting, **speaK loud enough** for the recorder to pick up your voice, and introduce yourself.

III MINUTES FROM PREVIOUS MEETING:

M/S, accepted and approved

IV STATE:

No representation.

V I.A.E.I.:

The Rocky Mountain Chapter's education committee has established subject and dates for the March meeting. The 2 day seminar March 19,20 will cover, Chapter 5 of the 2014 NEC. PDU's for wire methods and grounding will be issued for the seminar classes.

Please bring questions on Solar PV and other subjects to this meeting. A lot of valuable resources can be used there.

Visit the IAEI website : rocky-iaei.org for information on meetings, locations, costs and schedules for 2015 classes.

VI XCEL:

Report on slip sleeve, expansive fittings requirement brought up being done in Columbine Valley last meeting.

*Site Wise contractor was providing that type of fitting in this area. This fitting is to be provided by customer. The contractor has corrected their procedure, there are still area's that had been under construction before the implementation of this requirement. It is still up to the AHJ to approve or deny any install in violation to current code.

Any question for evaluation in the field for service installations should be initiated from the builders call line. 1-800-628-2121

www.xcelenergy.com

VII N.R.T.L.: No representation

UL: Local office will be closing. Tyson Long is our representative

Tyson Long

Sr. Project Engineer – Field Evaluations

Commercial & Industrial

Underwriters Laboratories LLC

100 Technology Dr., Suite 100

Broomfield, CO 80021

Mobile 720-201-1247

FE Quotes & Scheduling 877-854-3577, x2

Tyson.D.Long@ul.com

www.ul.com/field

INTERTEK:

Please contact for any testing or assistance

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

VIII N.E.M.A.: No representation.

www.nema.org:

IX I.B.E.W Local 68: What can be done to streamline the renewal process? Many of our members thought the process was completed and then found out their licenses had been expired. Local union would be willing to work with DORA in any way to make this process more customers friendly.

*Please read and follow instructions on line from DORA. There have been many complaints; we still need to follow the guides given. Fines and standards can be found in the State Electrical statutes.

X D.J.A.T.C. :

No representation.

Apprenticeship is still accepting applications daily.

Call 303-293-1903 or go to DJEATC68.com.

XI I.E.C.:

No representation.

For additional classes and information go to website iecrm.org

XII Jurisdiction reports: No reports

XIII FIELD PROBLEMS:

**These questions to be held over for reports from members.

How are jurisdictions enforcing the requirement of hard wired smoke detectors per IRC requirements when a wireless system is being installed ?

*The IRC requirements are not enforceable by the 2014 NEC. Each jurisdiction shall establish their criteria with this installation. General comments on subject, hard wire base, per manufacture requirement. If hard wiring can be done then will need to be done. If not viable wireless system allowed to be installed. Install wiring to 2014 NEC requirements and allow the wireless system to interact with system. Tyson Long has been asked to report any findings to the group next meeting.

What are the requirements for the expansive fitting per NEC and or Xcel?

* All installations shall be installed to Xcel standards and drawings. Section 300.5.h,j shall be used to enforced. Xcel will inquire and report findings.

Generator stand by systems feeding a Photovoltaic system. Inverter being turned on when generator is activated.

*At the design and plan review process, this should be evaluated and redesigned then. There is also a multi-mode inverter that can be designed into the installation that would drop out when it senses the generator activation. There is also testing available to verify correct operation of all systems. SunRun asked to report any findings next meeting.

What is the definition of a hallway? Does it need to include 2 walls?

*Per the 2012 IRC: minimum width of a hallway shall be not less then 3 feet. AHJ's should decide criteria for this definition in their jurisdiction. NEC 2014 210.52.H : Hallways, gives receptacle requirements. 210.52.I : Foyers, gives receptacle requirements. Commentary of current IRC is recommended

The GFCI requirement under kitchen cabinets, which jurisdictions are requiring this device to be at the front of the base cabinet door?

*Consensus: No jurisdiction is requiring this installation. 210.8, GFCI shall be installed in a readily accessible location. 210.8.A.6,7 for kitchen and sink requirements.

Comment: An increased awareness should be taken on Solar PV installations. Many discrepancies have been observed, from lack of design criteria to unqualified installers and designers. Jurisdictions present have terminated installation inspections that do not match field plans. Attempts have been made to State Electrical Board to implement licensing of installers through the State statues. Legislature exempted that qualification.

NEC 2015, 690.12 Rapid Shutdown requirement to be enforced by State April 1, 2015 for issued permits from date. Questions on enforcement should be addressed at plan review stage with AHJ.

Question from Email's

*3. Is a rigid coupling with two chase nipples a suitable raceway or nipple between two panels or boxes?

Answer: No, the chase nipple is listed to attach to a box with a locknut not be screwed into a conduit coupling which depends on a wrench-tight connection also Part 5 to Article 250 requires the bonding to provide a low impedance path suitable for carrying the fault current. 250.

Mark Ode says; A chase nipple screwed into a coupling from inside a panelboard (from both sides) would certainly not be

a positive bonding for either the raceway or the enclosure based on 250.92(B).

Chase nipples were intended and listed for use with a locknut and not listed with the intent to screw it into a rigid

coupling, in my opinion. Could it act as a path for fault current? Yes, however, we would not have tested it for the path of

current from the panel metal in contact with the chase nipple into the rigid coupling, through the coupling and into a chase

nipple on the other side to a panel or box. Too many questions about acceptable grounding paths and the fault path levels.

How much impedance would be introduced through arcing at each point of contact. Mark

Subject: raceway transitions cont.

<http://iaeimagazine.org/magazine/2012/07/16/transitioning-between-raceways/>

<http://iaeimagazine.org/magazine/post.xml>

<http://www.ecmag.com/section/codes-standards/fittings-hubs>

John Fernandez Jr

City of Westminster

Electrical / Building Insp.

303-658-2083

X111 N.E.C.A

Inspectors tab, for inspectors and/or contractors:

Questions can be submitted for meeting discussion. Please e-mail request for previous meeting minutes.
Calendar for future meetings and events will be posted on website.

Website info, rmcneca.org.

XIV Good of the Order

XV NEXT MEETING:

Wednesday, February 18, 2015

The Tavern at Lowry

XVI ADJOURNED:

Motion to adjourned and approved at 1:00 pm

Minutes submitted by Tito Aleman Jr.

