

ELECTRICAL INSPECTOR'S MEETING NOTICE

WHEN: WEDNESDAY, OCTOBER 15, 2014

**WHERE: THE GOLDEN CORRAL  
11090 E MISSISSIPPI AVENUE  
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 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 SEPTEMBER 17, 2014

### THE GOLDEN CORRAL

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. Welcome to the new meeting place. Thank you

III MINUTES FROM PREVIOUS MEETING:

M/S, accepted and approved

IV STATE:

PDU's need to be completed before you can register for the 2014 NEC cycle assessment. Licensing renewal has been able to be renewed but is invalid if PDU's have not been registered and assessment has not been taken.

**REMINDER:** Continuing competency assessment is on website for July to take the assessment. PDU requirements and a learning plan need to be established plan before the assessment can be scheduled. A 60 day grace to complete PDU and assessment is granted. Your license will be expired on September 30, 2014. Inspectors can issue citations and enforce State statutes.

Contact:

**Abi Gaskins**  
**Division Wide Programs Manager**

**Office of Division Wide Programs and Systems**  
**Colorado Department of Regulatory Agencies**

Division of Professions and Occupations

Management Branch

1560 Broadway, Suite 1350

Denver CO 80202

P [303.894.2812](tel:303.894.2812) | F [303.869.0304](tel:303.869.0304)

[abigail.gaskins@state.co.us](mailto:abigail.gaskins@state.co.us)

July 1, 2014 State adopts 2014 NEC, you can schedule to take your 2014 NEC assessment, permits issued July 1, 2014 will be inspected to the 2014 NEC.

V I.A.E.I.:

Rocky Mountain Chapter Executive Board meeting August 15, 2014.

There are 8 Executive board members gearing up to present a work shop, with a work book seminar at the IAEI Western Section meeting in Cleveland Ohio. The type of training was prepared by and presented to the Western Section by the Rocky Mountain Chapter. The format has never been used at these Western section meetings. This is a 4 hour long seminar on the updated Soares book with work book. The Rocky Mountain Chapter IAEI has mailed out invites to all Colorado licensed electricians for the Western Section meeting.

Visit the IAEI website : [rocky-iaei.org](http://rocky-iaei.org) for information on meetings, locations, costs and schedules for 2014 classes.

VI XCEL:

**October 1, 2014,** deadline for construction meter by pass lever requirement.

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

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

UL: Eligio Mendez [EligioF.Mendez@ul.com/W:ul.com](mailto:EligioF.Mendez@ul.com/W:ul.com)

Lead Field Specialist

Report to be resubmitted

INTERTEK:

Please contact for any testing or assistance

Telephone: 720-271-0829. Fax: 503-626-7328. E-mail:  
[jack.lawall@intertek.com](mailto:jack.lawall@intertek.com)

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

[www.nema.org](http://www.nema.org):

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

No representation.

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

No representation. Apprenticeship is still accepting applications daily.

Call 303-293-1903 or go to [DJEATC68.com](http://DJEATC68.com).

XI I.E.C.: No representation.

For additional classes and information go to website [iecrm.org](http://iecrm.org)

XII Jurisdiction reports: No reports

### XIII FIELD PROBLEMS:

Prefabricated enclosure for solar cabinet is not a listed but has listed components. Under NEC 110.3.A,B, examination and requirement of listed and labeled. What is groups interpretation

\*State: State Electrical Board(SEB), rule is electrical equipment must be listed. You may apply to the SEB for a variance

Ceiling wire support for luminaires, who is requiring this install?

\*410.36

Medium voltage cable. Does this install need to be bonded to equipment grounding system?

\*No

Does wall space requirements of 210.52.A.2.2 include operable panels

\*This panel does not require receptacle installation

For GFCI accessibility of the dishwasher garbage disposal receptacle, can the space adjacent to the lower cabinet door meet the requirement.

\*Yes

\*Reminder: NEC section 705.12.D.6, AFCI requirement for micro inverter back feed application. No listed 2 pole breakers. Will need to enforce thru 90.4 subject to jurisdiction translation.

\*From Harold Willman ([hfwillman@msn.com](mailto:hfwillman@msn.com))

### **ARC-FLASH**

OSHA 29 CFR 1910.269 & 1926 Subpart V effective July 10, 2014

@ 1600 pages

Implemented many NFPA 70E, now law, not recommendations

January 1, 2015 - employers must estimate arc-flash

April 1, 2015 - employers must provide employees with PPE

April 15, 2015 - approach distances go into effect

Electric arcs in 1910.269

IEEE Standard 1584-2004 only accepted means for calculation up to 15 KV

Arc rating for clothing is expressed in cal/cm<sup>2</sup>

Arc resistant gear was not covered

ARC-FLASH study includes fault current – distance & time; and coordination study

## **SELECTIVE COORDINATION**

Coordination (selective) NEC Article 100 Definitions provides additional information

READ: NEC 240.87 – All breakers  $\geq$  1200 amperes

READ: NEC 450.10(A) – Transformer grounding

NEC 700.8 – Surge suppressors for all emergency panelboards and switchboards

NEC 700.28 – ALL supply-side overcurrent protective devices Normal & Emergency

Deferred submittal: Contractor & gear manufacturer = “the best we can do” after everything has been installed.

Proposal: Permit with caveat – no conduit, conductors, or panels until selective coordination approved.

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](http://rmcneca.org).

XIV Good of the Order

Tony Lopez was in the hospital. Please no visitors. Prayers requested.

XV NEXT MEETING:

Wednesday, October 15, 2014

XVI ADJOURNED:

Motion to adjourned and approved at 1:15 pm

Minutes submitted by Tito Aleman Jr.

[TITO ALEMAN JR.](#)  
[CITY OF ARVADA ELECTRICAL INSPECTOR](#)  
[720.898.7622](#)