

ELECTRICAL INSPECTOR'S MEETING NOTICE
WHEN: WEDNESDAY, SEPTEMBER 17, 2014

**WHERE: Tavern at Lowry
7401 E. 1st Ave.
Denver, CO 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

ELECTRICAL INSPECTORS MEETING MINUTES OF AUGUST 20, 2014

THE GOLDEN CORRAL

I CALL TO ORDER: 12:05 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. Thank you

III MINUTES FROM PREVIOUS MEETING:

M/S, accepted and approved

IV STATE:

State statute 1223.104.A, any amendments to the NEC, current cycle, at a local jurisdiction level need to be submitted to the State in writing. Can be more restrictive not less. This needs to be done every code cycle.

State inspectors extremely busy. School inspections tapering off. Injuries, sickness, vacations and phone system going down are but a few reasons for the back log of inspections. We are catching up.

Have a candidate inspector for Grand County. Will be hired by the end of the month and up and running a week after.

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

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

The executive board is gearing up to present a work shop, work book class at the IAEI Western Section meeting in Cleveland Ohio. The class is on the updated Soares book with a work book for a 4 hour presentation. 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 for information on meetings, locations, costs and schedules for 2014 classes.

VI XCEL:

Contractors are not to sure of the slip sleeve requirement for underground laterals.

*Concerning the language in our installation standards concerning slip sleeves and expansion joints:

March 1, 2014 revision of the Xcel Energy Standard for Electric installation and Use Section 4.3.1 on page 29:

5) Ground Movement – A slip sleeve or expansion joint shall be furnished and installed by the customer on all new and rewired underground residential meter installations and recommended for all commercial installations.

a) A slip sleeve shall be an 18" length of 2½" Schedule 40 or 3" Schedule 80 PVC conduit. The slip sleeve shall be buried to a depth of nine (9) inches so that nine (9) inches is exposed above final grade.

b) An expansion joint shall be a minimum 18" length Schedule 80 PVC installed at the bottom of the meter housing.

Note: Effective March 31, 2014 the customer will be responsible for providing the slip sleeve or expansion joint for underground service riser.

Refer to 2011 *National Electrical Code*® Article 300.5(J) (FPN), or as may be amended and to the Illustrations Section, **Drawings SC-30, SC-40, SC-50, SC-90 and TR-10** for typical slip sleeve installations.

October 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

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

UL: No report at this time

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:

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.

XI I.E.C.:

School is in full effect. The Colorado chapter is the largest in the nation. By the end of October we will be filled to capacity and are interested in anyone who would like to be a qualified instructor to please go to the website with your resume.

August 27, 2014, 8-9:30 AM, UL is coming to the campus to present to the school what a listed product through them is and the process in which it takes to be UL listed.

Update on the Disaster Seminar. Funds for the Fire department need to be secured, dates in mid-October will follow when determined

For additional classes and information go to website iecrm.org

XII Jurisdiction reports: No reports

XIII FIELD PROBLEMS:

How is section 201.52.G.1 to be enforced? Dwelling unit required receptacles in a garage circuit required to remain in the garage area.

*State; We will allow on a detached single branch garage circuit to include lighting and exterior GFCI protected receptacle. An attached garage circuit will follow code section.

Existing service is a 480 amp service feeding electrical equipment, no other service panel exists in this area, do you need to install a 120v, required service receptacle within 50' of electrical equipment. NEC 2014, 210.64

*State: If in fact there is solely a 480 amp service available to this equipment, we will not require that service 120v GFCI protected receptacle to be installed.

Regarding the rapid shut off requirements for 2014 NEC enforcement of 690.12.

*State: The State inspector staff will be taken this section to the State Electrical Board, SEB, for a ruling on this section of the code. Inquiry of information and listing of this equipment has turned up no actual listed equipment on the market at this time. Tom Lichtenstein from UL has verified that at this moment there are no guidelines or regulations establishing a listing criteria for this listing. There are listed components but no actual listed equipment available now. The state will wait for this ruling from the SEB and enforce from that ruling. Jurisdiction vote on whom will enforce 690.12, City of Aurora yes September 1, 2014, Westminster yes presently, Jefferson County September 1, 2014, rest of the group need to report back to perspective jurisdiction and discuss at that level. Discussion continued will still need to wait for The SEB ruling.

What jurisdictions are requiring a wet stamp from Electrical engineer or Design Professional on designs for residential solar plans?

*No jurisdictions are requiring the wet stamp.

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.

Colorado licenses are to be printed by licensee after assessment is completed. Print after 24 hours of taking assessment. Please when checking licenses ask for photo ID

Is it required on a refrigerator, garbage disposal, dishwasher circuit, to be AFCI and GFCI protected.

*Yes, AFCI, GFCI combo breakers available

Emailed question : Wind Power 2014 NEC requirements.

- From the AHJ perspective, what are the compliance issues they are most concerned with?
- How far up into the turbine they will be going to verify components or products?
- Will they be requiring Listing or Labeling for the entire assembly?
- Note – this is preliminary, but it may be possible to have a generation only certification, a separate blade, separate nacelle, and separate tower certification as opposed to having the entire WTG with one UL Mark on it.

*Links:

Subject: Wind Power

<https://mail.google.com/mail/u/0/?ui=2&ik=c08cba7f14&view=att&th=147d4cbd31eec4ea&attid=0.1&disp=inline&safe=1&zw>

<http://www.nrel.gov/wind/>

<http://www.awea.org/>

<http://support.flir.com/appstories/AppStories/Electrical&Mechanical/Wind%20turbine%20inspections.pdf>

System Manufacturers

Commercial Industrial

<http://agreenroad.blogspot.com/2012/04/ten-largest-wind-turbine-manufacturers.html>

https://www.hqs.sbt.siemens.com/gip/general/dlc/data/assets/hq/manual/02_ds_Safetyandprotectionforwindturbines_EN_2951.pdf

http://www.vestas.com/en/products_and_services/options_and_solutions#!

http://www.vestas.com/en/products_and_services/options_and_solutions#!

Residential

<http://www.homepower.com/articles/wind-power/equipment-products/2014-wind-turbine-buyers-guide?v>

=print

Resources

AWEA standards page • bit.ly/WindStandards

Intertek • www.intertek.com/wind/small

ITAC • bit.ly/ITACTurbines • Unified list of wind turbines

Microgeneration Certification Scheme • microgenerationcertification.org

Small Wind Certification Council • smallwindcertification.org

TUV • bit.ly/TUVnelCert

Discussion resolve not clear will need to readdress next meeting.

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, September 17, 2014

The Tavern at Lowry

XVI ADJOURNED:

Motion to adjourned and approved at 12:51 pm

Minutes submitted by Tito Aleman Jr.

[TITO ALEMAN JR.](#)
[CITY OF ARVADA ELECTRICAL INSPECTOR](#)
[720.898.7](#)