

BOARD OF ELECTRICIANS AND PLUMBERS
Professional and Vocational Licensing Division
Department of Commerce and Consumer Affairs
State of Hawaii

MINUTES OF MEETING

Date: Tuesday, December 17, 2013

Time: 10:30 a.m.

Place: King Kalakaua Conference Room
King Kalakaua Building
335 Merchant Street, 1st Floor
Honolulu, HI 96813

Present: Lindsey Kimura, Public Member, Chairperson
Peter Akamu, Industry Member, Vice Chairperson
Matt Brady, Industry Member
Randal Hiraki, Industry Member
Morris Kaneshiro, Industry Member
Randall Kaya, Public Member
Vernon Ta'a, Public Member
Rodney J. Tam, Deputy Attorney General
Charlene L.K. Tamanaha, Executive Officer
Christine Rutkowski, Executive Officer
Christine Hironaka, Secretary

Excused: None

Guests: Dan Aiu – Solar City
Guy Akasaki – Commercial Roofing Hawaii/Greenpath Tech.
Jim Cahill – Solar City
Leslie Cole-Brooks – Hawaii Solar Energy Association ("HSEA")
Al Itamoto – Electrical Contractors Association of Hawaii ("ECAH")
Peter Lee – Hawaii Laborers Employers Cooperation & Education Trust
("LECET")
Gladys Marrone – Building Industry Association Hawaii ("BIA")
Joby S. North, II – Laborer's Union
Troy Silva – Hawaii Electricians Market Enhancement Program
("HEMEP")
Scott Sparkman – Mercury Solar
Ryan Takahashi – HEMEP
Ken Takenaka – General Contractors Association ("GCA")
Alan Yonan – Star Advertiser
Jon Yoshimura – Solar City

Agenda: The agenda for this meeting was filed with the Office of the Lieutenant Governor, as required by section 92-7(b), Hawaii Revised Statutes ("HRS").

Call to Order: There being a quorum present, Chairperson Kimura called the meeting to order at 12:00 p.m.

Additions/
Revisions to
the Agenda:

It was moved by Vice Chairperson Akamu, seconded by Mr. Kaya and unanimously carried to approve the following additions and deletions to the agenda:

Applications – Addition

a. ELECTRICIANS

1) Journey Worker Electrician (“EJ”)

BOYD, Jesse K
BOETTCHER, Edward B
HILLEN, Jasmine K
KIM, Young Man
NOMURA, Reed R K
STARKE, Jon

2) Supervising Electrician (“ES”)

CARR, Michael
PRICE, Michael
STANN, Nathan

b. PLUMBERS

1) Journey Worker Plumber (“PJ”)

HO, Ranson
KELSO, Tyler
KONA, Layton
SOJOT, Sheldon
UYEDA, Gavin

2) Master Plumber (“PM”)

BROWN, Nathan R

g) RESTORATION

NALUAI, Derek (PJ)

h) CONDITIONAL LICENSE

LEBOEUF, Roger (PJ)

Approval of
the Minutes:

It was moved by Vice Chairperson Akamu, seconded by Mr. Kaya and unanimously carried to approve the minutes of the October 15, 2013 Board meeting and minutes of the November 5, 2013 minutes of the continued October 15, 2013 meeting as circulated.

Chairperson Kimura announced that he was taking the agenda out of order to address the Scope topic.

Scope:

- a. Hawaii Electricians Market Enhancement Program letter regarding Photovoltaic Installations and Scope of Work for Journey Worker Specialty Electrician. (Deferred from the October 15, 2013 meeting).

Chairperson Kimura stated that the Board stands by its July 2009 interpretation regarding the issue of bonding and grounding on solar PV systems and is currently working with DAG Tam on language to clarify the issues. Executive Officer Tamanaha added that bonding and grounding is still the demarcation line that needs further clarification.

Mr. Takahashi asked the Board about the second part of the letter regarding the scope of work for the journey worker specialty electrician. Chairperson Kimura added that built in photovoltaic ("BIPV") systems are an additional impact to the industry. Mr. North stated that whether the system is on the roof or ground, the installation does not need to be done by a licensed electrician. Vice Chairperson Akamu responded that the Board is asking for more information for all systems covered in the Board's 2009 interpretation. Executive Officer Tamanaha added that the Board will be reviewing general language to apply to the different types of PV systems.

DAG Tam asked where the bonding and grounding starts in BIPV systems. Mr. Akasaki responded that bonding and grounding depends on the design of the system. Some brands have a separate system for grounding. Vice Chairperson Akamu added that the frame may not be the grounding structure. Mr. Arakaki also stated that in most systems, the racks are not conductors.

An unidentified member of the audience asked how will this affect work? Executive Officer Tamanaha responded that the C-60 scope allows some electrical work but this work must still be in compliance with HRS chapter 448E. The Contractors License Board allows contracting of the work, and the Board of Electricians and Plumbers requires licenses to actually perform the electrical work.

Vice Chairperson Akamu left the meeting at 12:15 p.m.

- b. Tritium 3 letter asking if a licensed electrician is required to perform maintenance and repairs on photovoltaic inverter systems. (Deferred from the October 15, 2013 meeting.)

It was moved by Mr. Kaneshiro, seconded by Mr. Brady and unanimously carried to defer the Tritium 3 letter asking if a licensed electrician is required to perform maintenance and repairs on photovoltaic inverter systems.

Chairperson Kimura announced he was returning to the order of the agenda.

Executive Officer's Report

None

Examinations:

- a. The Executive Officer distributed the following results of the Electricians' and Plumbers' examination:

Electricians' Exam (administered November 2013)

	<u>EJ</u>	<u>ES</u>	<u>EJI</u>	<u>ESI</u>	<u>EJS</u>	<u>ESS</u>	<u>EM</u>
Exams Administered	48	9	5	0	26	0	7
Successful	30	6	2	0	22	0	1
Unsuccessful	18	3	3	0	4	0	6

Plumber's Exam (administered November 2013)

	<u>PJ</u>	<u>PM</u>
Exams Administered	33	6
Successful	19	3
Unsuccessful	14	3

Applications:

It was moved by Mr. Kaneshiro, seconded by Mr. Akamu, and unanimously carried to approve to **approve/defer** the following applications as noted.

- a. ELECTRICIANS

- 1. Journey Worker Electrician ("EJ") – Approved

ACOSTA, John
 ASTRELLLA, Dominic B
 AZAMA, Blaine K
 BOYD, Jesse K
 BOETTCHER, Edward B
 BREHM, Dean M

The Board felt the applicant qualifies for an EJ license and has approved the applicant to sit for the EJ examination, however deferred the applicant's application for an ES license.

CAMARA, Stanley A
CARR, Michael - The Board felt the applicant qualifies for an EJ license and has approved the applicant to sit for the EJ examination, however deferred the applicant's application for an ES license.

FERNANDEZ, Kevin S
HILLEN, Jasmine K
ISHII, James J
KIM, Young Man
MCARTHUR, Marc L
MOKE PUHA II, Victor N
NAUMU, Nikko N
NOMURA, Reed R K
PADGETT, Keith W
SILVA, Lenson T K
STARKE, Jon
STILLMAN JR, Myles J
VILLARIN JR, Jose A
WONG, Adam P

2. Supervising Electrician ("ES") – Approved

BENEDETTI, Luke E
ECKART, Norman L
HARDER, Hans R
MANIBUSAN, David V – Pending receipt of license verification
PRICE, Michael
STANN, Nathan

3. Journey Worker Industrial Electrician ("EJI") - Approved

None

4. Supervising Industrial Electrician ("ESI") - Approved

None

5. Journey Worker Specialty Electrician ("EJS") - Approved

None

6. Maintenance Electrician ("EM")

None

b. PLUMBERS

1. Journey Worker Plumber ("PJ") – Approved

CHANG, Edward A
CHANG, Robert
DIAS, Andrew D
EPSTEIN, Alex S
HO, Ranson
KAUIHOU, Jared K
KELSO, Tyler
KONA, Layton
SOJOT, Sheldon
UYEDA, Gavin

2. Master Plumber ("PM") – Approved

BROWN, Nathan
HARDY, Robin L

c. DEFERRED APPLICATIONS

BREHM, Dean M (ES)
CARR, Michael (ES)
COOTEY, Jeffrey (EJ)
QUARTERO, Michael K (EJ)

d. DENIALS

None.

e. RENEWALS

None

f. RATIFICATION

None

g. RESTORATION

Journey Worker Plumber ("PJ") – Deferred

NALUAI, Derek

Unfinished Business: a. Proposed Legislation

None

Act 35, SLH 2010
University of Hawaii
Honolulu Community
College Approvals:

The Executive Officer reported that the University of Hawaii Community College has reviewed the course outlines and curriculum overview to assure minimum compliance under HRS chapter 448E-5 and that the following have addressed the appropriate program of study:

- ABC Norcal Center for Construction Education and Research (NCCER)
- City & County of Honolulu Electrical Training
- Department of the Navy, Sailor/Marine American Council on Education
- National Joint Apprenticeship Training Organizations (NJATC)

Chairperson Kimura announced that he was returning to the discussion addressing the Scope topic.

- Scope:
- a. Hawaii Electricians Market Enhancement Program letter regarding Photovoltaic Installations and Scope of Work for Journey Worker Specialty Electrician. (Deferred from the October 15, 2013 meeting).

DAG Tam asked if bonding and grounding can be done separately from installation if the metal racks or rails are not part of the bonding or grounding system. Mr. Akasaki responded that there are systems where the panels are encased in the glass itself and the bonding is done with lugs. Mr. Akasaki added that only 10% of the systems installed require bonding and grounding of the racks and with ground installations; grounding and bonding occurs around the periphery of the panels set by the electrical engineer. The bonding and grounding differs depending on the PV system and materials being used.

Mr. Hiraki left the meeting at 12:31 p.m.

Mr. North stated that carpenters take care of the concrete and bolting work on solar farms and assisted in putting up the panels. Executive Officer Tamanaha stated that it was okay if it was not part of the grounding system.

Mr. Lee added that the Board will also have to look at ground mounts too.

DAG Tam informed the Board that he was trying to get enough information on the different types of PV systems and materials in order to draft language that clarifies when a licensed electrician is required or not.

- Announcement:
- a. Next Applications Committee Meeting
Tuesday, February 11, 2014
9:30 a.m.
King Kalakaua Conference Room
335 Merchant Street, 1st Floor
Honolulu, HI 96813
 - b. Next Board Meeting
Tuesday, February 11, 2014
10:30 a.m.
King Kalakaua Conference Room
335 Merchant Street, 1st Floor
Honolulu, HI 96813

Mr. Kaya informed the Board that he is not able to attend the next meeting scheduled for February 11, 2014.

Adjournment: There being no further business to discuss, the meeting was adjourned at 12:40 p.m.

Review and approved by:

Taken by:

/s/ Christine Rutkowski
Christine Rutkowski
Executive Officer

/s/ Christine Hironaka
Christine Hironaka
Secretary

CR:ch
1/17/14

- Minutes approved as is.
 Minutes approved with changes; see minutes of _____.