

**ELECTRICAL TECHNICAL ADVISORY COMMITTEE
CONCURRENT WITH THE
SWIMMING POOL TECHNICAL ADVISORY COMMITTEE**

WEB UR: <https://global.gotomeeting.com/join/952508197>

AUDIO: DIAL-IN NUMBER 1 866-899-4679

CONFERENCE CODE: 952-508-197

Tuesday, May 30, 2017

1:00 PM

Minutes

ELECTRICAL TAC PRESENT:

Kevin Flanagan, Chairman
Ken Castronovo
Bryan Holland
Clarence Tibbs

Neal Burdick
Shane Gerwig
Joseph Territo
Vince Della Croce

ELECTRICAL TAC NOT PRESENT:

Oriol Haage
Roy Van Wyk

David Rice

STAFF PRESENT:

Thomas Campbell
Justin Vogel
Joe Bigelow
Jim Hammers

Mo Madani
Chris Howell
Chip Sellers
Marlita Peters

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Welcome:

Time: 1:00 pm

Roll Call:

Ms. Peters performed roll call for the Electrical TAC. A quorum was determined with 8 of 11 members present.

Agenda Approval:

Mr. Tibbs entered a motion to approve the agenda for today's meeting as posted. Mr. Castronovo seconded the motion. The motion passed unanimously with a vote of 8 to 0.

Approval of Minutes from February 28, 2017:

Mr. Burdick entered a motion to approve the minutes from February 28, 2017 as posted. Mr. Tibbs seconded the motion. The motion passed unanimously with a vote of 8 to 0.

To review and accept final draft report for research project titled "Evaluation of the Cost Impact of Florida's Specific Changes to 2015 I-Code Changes (Prescriptive Code Changes)":

Mr. Madani provided a brief background of this project and stated this was limited to prescriptive provisions. He then asked Dr. Issa to provide the information on the final draft report.

Dr. Issa provided the detail of this project to include the cost impact with a power point presentation.

TAC Comments:

Mr. Gerwig questioned the insurance rebate information in the report and the necessity to stay with construction costs.

Dr. Issa and Mr. Madani responded to Mr. Gerwig's questions and concerns.

Mr. Gerwig entered a motion to accept the report with modification removing the insurance rebate information. Mr. Tibbs seconded the motion. The motion passed unanimously with a vote of 8 to 0.

Recommend and discuss potential research topics for consideration by the Building Commission:

Mr. Madani provided a summary of the requirements for new projects to be considered. He then asked if there were any proposed research topics.

Mr. Territo stated one topic that he would like some objective information about is the implementation of the automatic receptacle control that is being enforced now in ASHRAE 90.1 in equate 8.4.2, we are requiring automated control of half of the receptacles in offices. He stated it is a very expensive proposition and the installation hosts no benefit, there are no lifesaving issues and there are no energy savings when there is nothing to plug into the receptacle. Mr. Territo stated he would like to see a cost benefit analysis of this requirement to see if this is actually producing energy savings and publish the cost of the implementation of this requirement.

Mr. Gerwig added that, it would be interesting to see if there are any actual energy savings. He said the group should be able to evaluate the savings if any. Mr. Gerwig also stated he would like for the group to take a look at unintended consequences of this such as overloading by only using half the receptacles because they do not want to deal with the problem of them being switched on and off. He also stated that the use of extension cords and imbalance of the electrical systems could be an issue as well.

Mr. Holland stated , this information was provided to ASHRAE to get into the ASHRAE standards, so if the group wants to see the research studies that were done which were include a cost benefit analysis and associated risk of overload, fire and other uses, he has a copy that was submitted to ASHRAE. He further stated that if the group is looking for Florida specifics, he does not believe this research was done as ASHRAE was never intended to be a mandatory compliance path.

Mr. Territo asked for the year the study was completed.

Mr. Holland stated there were three groups and the oldest was 2010 and then another in 2012 and were identified for implementation of the ASHRAE 90.1 2010 standard through the annual process.

Mr. Territo provided further information of the costs to the customer on this requirement.

Mr. Flanagan stated this is on the Energy Code where this is being enforced, specifically C405.7.3 voltage drop. He said there was some discussion on this and he is not aware of change and it should be investigated. Mr. Flanagan stated this is only allowing a 2% max voltage drop on the design load and 3% on the branch circuits, when the National Electric Code was only a suggestion not a code issue. He further stated this is in the Florida Building Code and is being enforced and he has received a lot of calls and complaints on this issue. Mr. Flanagan asked if this went before the Electrical TAC or only the Energy TAC.

Recommend and discuss potential research topics for consideration by the Building Commission (cont.):

Mr. Madani stated this issue was resolved in the new 2017 Code, as there was a code change to make it consistent with ASHRAE. He stated he would send Mr. Flanagan a copy of the code change.

Mr. Holland stated he had two possible projects. He stated the first topic would be to identify the potential code modifications needed to enhance electrical safety in swimming pools. Mr. Holland further stated that current NEC does well under new construction or those altered under scope of permit, but it would be great to have an idea of the conditions of use and maintenance practices that are affecting electrical safety.

Mr. Holland summarized this project is to identify essential code modifications needed to enhance existing swimming pool and electrical for safety.

Mr. Holland's second request was to work with the Fire TAC's recommendation to abide with the impact of the code updates in the Florida specifics amendments to the communities ISO, BCEGS scores or ratings and insurance premiums and possibly add a qualifier that would also identify the electrical requirements specifically.

Mr. Burdick stated there are issues in the panhandle Florida with local jurisdictions using the 2008 NEC with enforcement. He advised this is needs to be corrected so that all jurisdictions should be using the same NEC Code. Mr. Burdick asked for this to be researched to make sure that all local jurisdictions are using the same requirements.

Rating of Projects:

Mr. Tibbs entered a motion to prioritize the project requests as follows for submission to be considered.

1. As proposed by Mr. Territo regarding automatic receptacle controls in ASHRAE 90.1.
2. As proposed by Mr. Holland to identify code modifications needed to enhance existing swimming pool electrical safety.
3. As proposed by Mr. Flanagan to evaluate impact code updates and the ISO, BCEGS and insurance premiums and a qualifier that would identify electrical requirements specifically.
4. As proposed by Mr. Burdick regarding counties using the 2008 NEC.

Mr. Flanagan seconded the motion. The motion passed unanimously with a vote of 8 to 0.

Public Comment:

Jennifer Hatfield, FSPA, stated she wanted to suggest on Mr. Holland's suggestion on further Code Mods could be adjusted; she referred to the Calder-Sloan report. She spoke on specific items that

Public Comment (cont.):

were addressed in the Legislature. Ms. Hatfield felt since this would be a good direction for the TAC and Commission to use as there is no permit required and we are not a maintenance code.

Jennifer Hatfield stated that two of the recommendations have been addressed through the CILB. She provided details of what is being completed on those recommendations.

Mr. Madani spoke on proposal two; we do not have authority as we are not a maintenance code and is outside the code scope to address existing swimming pools.

Mr. Belcher stated he had concerns on writing the code for insurance requirements as they are part of this process. He said the code is a minimum as a guide.

Mr. Madani asked that all presenters to provide a clear definition and scope of work for the research topics by the end of June for presentation at the August meeting.

Final Roll Call:

Ms. Peters performed the final roll call all 8 members were remaining on the call.

The meeting was adjourned at 1:55 p.m.