

**ELECTRICAL TECHNICAL ADVISORY COMMITTEE
CONCURRENT WITH
SWIMMING POOL TECHNICAL ADVISORY COMMITTEE
TELECONFERENCE MEETING FROM TALLAHASSEE, FLORIDA**

WEB URL <https://global.gotomeeting.com/join/305857077>

AUDIO: DIAL-IN NUMBER 1 877 309 2070

CONFERENCE CODE: 305-857-077

**Friday, April 29, 2016
10:00 AM until completion**

ELECTRICAL TAC PRESENT:

Neal Burdick
Bryan Holland
Oriol Haage (joined late)
Joseph Territo
Dwight Wilkes

Ken Castronovo
Shane Gerwig
David Rice
Clarence Tibbs
Roy Van Wyke

ELECTRICAL TAC NOT PRESENT:

Kevin Flanagan, Chairman

STAFF PRESENT:

Jim Richmond
April Hammonds
Chip Sellers
Robert Lorenzo
Marlita Peters

Mo Madani
Chris Burgwald
Joe Bigelow
Nick Duval

OTHERS PRESENT:

Jennifer Hatfield, Florida Swimming Pool Association
Craig Miller, University of Florida
Bruce Kershner, United Pool and Spa Association
Cam Fentriss, Building a Safer Florida
Jamie Gascon, Miami-Dade County
Tom Baker, CED Technology
Russell Simmons, CED Technology

Welcome:

Time: 10:00 am

Marlita Peters welcomed everyone to the concurrent teleconference call of the Electrical TAC and Swimming Pool TAC. She provided information for the callers on how to mute systems to avoid background noise.

Roll Call:

Ms. Peters performed roll call for the Electrical TAC. A quorum was determined with 10 members present.

Agenda Approval:

Mr. Gerwig entered a motion to approve the agenda for today's meeting as posted. Mr. Tibbs seconded the motion. The motion passed unanimously with a vote of 10 to 0.

Approval of the Minutes from April 4, 2016

Mr. Gerwig entered a motion to approve the minutes from the April 4, 2016 meeting as posted. Mr. Tibbs seconded the motion. The motion passed unanimously with a vote of 10 to 0.

Review/Approval [Swimming Pool Electrical Safety Factsheet and Educational Training Module Content](#)

Mr. Madani provided a brief summary of the project and why this meeting is necessary. He gave background of how the project was brought forward. Mr. Madani stated the reason for this meeting is to review the outline of the education part as presented by the University of Florida by contract through BASF. He provided detail of the outline for the TAC. Mr. Madani is funded by BASF and contracted through UF. He said Cam Fentriss and Craig Miller are both on the line and can answer questions. Mr. Madani stated that we would like their comments on this project as the plan is to be completed by the end of this fiscal year, so we have until around June 15 to complete this.

Mr. Miller stated that based on the outline provided and feedback from some resources, the proposal that Mr. Madani provided gives the target audience and content outline that will be covered in the fact sheet. He said the components will be supported by existing resources and as needed message these to get the summaries where they are understandable. Mr. Miller said there will be a four to six page fact sheet that will be the basis for a one hour CEU course that would address current issues as they evolve between now and June thus allowing updating as we go

Review/Approval [Swimming Pool Electrical Safety Factsheet and Educational Training](#) Module Content (cont.):

forward. He further stated that they would like to have a self-assessment included in this for the participants, it would not be a posttest it would just be an assessment that yes they understand the content of the issues or no they need to do some refreshing. Mr. Miller said if there were any questions feel free to ask. He said from feedback and what Mr. Madani has presented this would be a 1 hour approved CEU course on the swimming pool and electrical safety.

Cam Fentriss stated that BASF is the one doing this under the contract that they have with DBPR and the Florida Building Commission, they oversee this.

Mr. Gerwig asked after the review of the fact sheet why the Miami-Dade technical amendment is listed that is not consistent with the current requirement. He asked if this is included as part of the fact sheet will it make it confusing to the remainder of the State.

Mr. Madani said this is more of an informational piece and if you feel that this is going to cause a problem feel free to ask that it be removed, however, this is a fact sheet just to provide information there is nothing that will be mandated. Mr. Madani stated that Miami-Dade requirements already have a mandate at a local requirement. He said this is an informational piece for educational purposes and should not be interpreted as a requirement.

TAC Comments:

Mr. Tibbs stated that he agrees it is confusing to see Miami-Dade on the sheet.

Mr. Territo stated he would like to see GFI protection and bonding added to the content.

Mr. Holland said that part 5 has a huge gap between new construction and maintenance and repair. He said the focus should be on this.

Public Comments:

Jennifer Hatfield stated that they agree with comments that have been made and that focus is on repairs but all is good. She said that UL1081 reference should be included and additional stray voltage. Ms. Hatfield said she understood from the October meeting there was direction for the contractors; however, there was also a recommendation for flyers and communications for consumers are completed.

Ms. Hammonds asked who would they recommend to fund and distribute the flyers and other communications.

Review/Approval [Swimming Pool Electrical Safety Factsheet and Educational Training Module Content](#) (cont.):

Ms. Hatfield said the Associations would be glad to help

Ms. Fentriss said that they already have thirty different faxes out and they received calls on them. She said most of these have been developed by Mr. Miller's group at UF and they have done a great job with the information provided.

Mr. Wilkes joined and stated he had been on the call from the beginning but was having issues with the phone system. He said that he supports Miami-Dade being included. He asked if this could be the Legislative request or mandate, the Code requirements.

Mr. Madani stated this is for educational purposes and not the mandate from the Legislature.

Mr. Hammonds stated this issue could be discussed with Mr. Richmond.

Mr. Richmond advised this would have to be discussed at a future meeting as it is not included on the agenda and not part of this outline up for discussion today.

Mr. Wilkes stated he would recommend at that meeting that this be mandatory for all pool contractors.

Mr. Wilkes stated that Miami-Dade should require handouts for the Contractors to provide to their clients.

Ms. Hammonds suggested that Mr. Wilkes take the requirement for pool contractors to be taken to the Construction Board as the Commission does not have any regulatory authority.

Mr. Holland stated the public is acting favorably to the education requirements as well as the industry.

Mr. Gerwig entered a motion to accept the outline with one exception to remove Miami-Dade amendments. Mr. Tibbs seconded the motion.

A roll call vote was taken.

Mr. Burdick –No, Mr. Castronovo - Yes, Mr. Holland - Yes, Mr. Gerwig - Yes, Mr. Rice – Yes, Mr. Territo – Yes, Mr. Tibbs – Yes, Mr. Van Wyke – No, Mr. Wilkes – No. The vote total was 5 in favor and 3 against.

Mr. Hammonds suggested that they can amend the motion to keep everything as amended leaving in Miami-Dade.

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Mr. Tibbs asked why would she say that when they already voted.

Ms. Hammonds offered this for an option.

Mr. Richmond stated that they have less than 75% for passing and would warrant an amended motion.

Further discussion was held to ensure that this was the only requested change.

Mr. Gerwig entered amended motion to leave the Miami-Dade Technical Amendments in and keep eyes on any other technical amendments and to include the prior recommended updates **Attachment A**. Mr. Territo seconded the motion. A second roll vote was called.

Mr. Burdick –Yes, Mr. Castronovo - Yes, Mr. Holland - Yes, Mr. Gerwig - Yes, Mr. Rice – Yes, Mr. Territo – Yes, Mr. Tibbs – No, Mr. Van Wyke –Yes, Mr. Wilkes – Yes. The motion passed with a vote of 8 in favor and 1 against.

There was no further public comment.

Roll call was performed again with all 10 members remaining on the call.

The meeting adjourned at 10:48 am.

ATTACHMENT A - Swimming Pool Electrical Safety

Factsheet and Educational Training Module Content Outline

I. Informational/Educational Fact Sheet (4-6 pages)

Target Audience: Professionals installing, maintaining, repairing or replacing luminaires or related equipment in and around public and private swimming pools.

Content Outline:

- i. Licensing, permit requirements and relevant definitions/safety issues.
- ii. Relevant codes and standards, review to include:
 - a. FBC, Building Chapter 4, Section 454.1.4 Electrical systems
 - b. FBC, Residential Chapter 42 Swimming Pools [Electrical Provisions]
 - c. NEC Article 680 Swimming Pools, Fountains, and Similar Installations
 - d. UL 676: Underwater Luminaires and Submersible Junction Boxes (NEMA resources)
 - e. ~~Miami-Dade T~~ technical amendments to FBC
 - f. U.S. Consumer Product Safety Commission provisions/recommendations
- iii. Underwater luminaires and related equipment - Low voltage lighting, bonding (equipotential bonding), grounding (wet-niche, no-niche luminaire), field wiring (dry niche luminaire).
- iv. Products under UL 676 standard.
- v. **Maintenance and Repair – preventative maintenance, retrofitting/replacement, safety precautions. (Expand...)**
- vi. Appropriate reference and relevant local, state, and industry contacts.
- vii. GFI Protection and Bonding
- viii. UL 1081
- ix. Stray Voltage

II. Training Module (~ 1- hour presentation)

Target Audience: Professionals involved with swimming pool design, construction, maintenance and repair.

Content Outline:

- i. Current issues/status of code amendments
- ii. Summary of relevant FBC and NEC codes and standards (UL)
- iii. Overview of proper ground and luminaire bonding
- iv. Review of proper maintenance/servicing, repair and retrofitting
- v. Self-assessment question/answer (handout)
- vi. Training Evaluation (handout)

For comments/feedback/questions, please contact Craig Miller, UF/PREC, (352) 392-1513 or craigmil@ufl.edu