

Educational and Healthcare Committee

IEEE Industry Applications Society Industrial and Commercial Power System Department.

<http://sites.ieee.org/icps-ehe/about-us/>

Date of Meeting: October 19, 2015
Meeting Location: IAS 2015 meeting, Crystal I Room
Time: 3:00 PM
Invitees: All members of Committee and Interested Parties

Agenda

1. Introductions, and Passing of Sign-In List

2. Review minutes of last meeting held in Calgary, Alberta Canada

3. Brief Review of Purpose of this Committee: To provide a venue for those who are involved in the design, operations, and/or maintenance of the electrical systems installed in Educational or Healthcare (E&H) Facilities. More specifically to provide a venue to:

- a. Share experiences and problems with others, using the above noted E&H website
- b. Share and review persistent or longer-term questions and problems, in a more face-to-face environment, with others at our semi-annual meetings. (This sharing may be in many formats, including panel sessions or paper presentations.)
- c. Be made aware of upcoming, or newly published, codes and standard affecting the E&H community
- d. Define areas where electrical standards do not exist, in areas of interest to the E&H community; and to use the IEEE Standards model to create new standards.
- e. Discuss desirable changes in existing codes and standards, and to possibly imitate actions to change them.

4. Some Current Issues that May Need Standards, Recommended Practices, and/or Guidelines written (or revised):

- a. Campus environment, medium voltage, distribution systems.
- b. Supplying power to medical imaging systems
- c. Using reliable campus power distribution systems, instead of emergency power generators.

Next Meeting: I&CPS 2016, May 1-5

Location; Detroit Michigan

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- d. Connecting, multiple manufacturer fire alarm systems into one ‘terminal’ at campus security operations center, to make the monitoring of those systems more convenient.
- e. Outdoor security lighting standards for campus, or other similar, environments.
- f. Other items

5. Panel Sessions, Papers, or Tutorials that Should be considered for I&CPS 2016 or IAS 2016

- a. Understanding the *REAL* power needs for medical imaging systems:
 - i. The actual thermal loads on distribution systems
 - ii. The actual load profiles of the imaging systems themselves
 - iii. Defining the real systems’ power quality needs, to achieve quality images, at minimum costs
 - iv. How do differing UPS modalities affect power quality and unit sizing
- b. Working with utility’s so that both the utility and the customer have similar set of definitions of *power quality* and *power reliability*. Thus making communications clearer
- c. Using aluminum feeder conductors for cost savings, and ease of installation, all without sacrificing safety.
- d. Installing lighting control so new buildings/installations may be sized (per NEC) to 1-watt per square foot instead of 3-watts or more, now required by NEC. Doing so may dramatically reduce service sizes, initial costs, and possibly are-flash.
- e. Other issues

6. Next meeting is in Detroit May 1-5, 2016

7. Move to Adjourn