

Agenda

ACI/TMS Committee 122 Energy Efficiency of Concrete and Masonry Systems

Monday, October 21, 2019

1:00 PM - 3:00 PM

Duke Energy Convention Center – Rm. C-237

1. Call to Order

- 1.1. Self introductions
- 1.2. Revisions to agenda

2. Approval of the Winter Convention Mtg. Minutes

- 2.1. Quebec City – March 25, 2019

3. New Members

- 3.1. Introductions
- 3.2. Recruiting efforts

4. Virtual Meeting (April 26, 2019)

- 4.1. Summary / Review Minutes
- 4.2. Approve minutes

5. Committee Document - Review & Progress Reports Documents being Developed

5.1. 122R-14: Guide to Thermal Properties of Concrete and Masonry Systems

5.1.1 Chair report

The proposed plan is to incorporate this document into 122.X either as part of the standard or as commentary, as appropriate.

5.2. ACI-TMS 122.X: Standard Thermal Properties of Concrete and Masonry for Use in Determining Energy Code Compliance

5.2.1 MVG or Sponsor Update

This standard provides standard values and methods to determine values of thermal properties of concrete and masonry systems for use in energy performance models. The standard values provided or determined using the methods provided are intended to be used as inputs in building thermal performance modeling tools that are considered "deemed to

comply" or alternative compliance paths to satisfy the requirements of energy codes and standards. The new standard would provide more options and accurately report or provide methods to more accurately determine the thermal properties appropriate for consideration for use in the energy codes and referenced standards. Note: Approved compliance tools include: DOE-2 based software and Energy Plus.

A draft outline was previously distributed and will be updated. The current plan is to develop text in 2020.

5.3. ACI-TMS 122.Y: Standard Methods to Evaluate and Mitigate Thermal Anomalies in Concrete and Masonry Building Envelope Components

5.3.1 MVG or Sponsor report.

This standard provides acceptable methods for evaluating and mitigating the effects of thermal anomalies (thermal bridges) in concrete and masonry building envelope components. The evaluation methods permit the designer to evaluate the impact of thermal anomalies with regard to overall building thermal performance to determine if mitigation is necessary. Where the effects of the thermal anomalies, based on building envelope construction, properties of concrete and masonry systems, components, and related products and climate and local weather data, are determined to require mitigation, standard methods of mitigation are provided.

A draft was previously provided and will be updated.

5.4. ACI-TMS 122.3-XX Standard Methods of Design of Passive Solar Buildings

5.4.1 Chair report.

This standard provides the criteria to determining code compliance of passive solar buildings. Design methods are provided to determine the basic configuration for direct and indirect gain passive solar systems using concrete and/or masonry to provide the thermal inertia. It is recommended that designs determined using these methods be further refined with appropriate energy performance modeling systems.

6. Convention Session - Update & Planning

6.1. Speaker commitments and timing - At the last meeting the chair reported the cmte's. desire to have a Full Session. We have been unable to secure speakers. The next mini session (Chicago 2020) is full. Mini-Sessions are one hour and have 2 to 3 speakers. Full sessions are two hours and have 4 to 6 speakers.

7. Old Business

7.1. Membership drive – The new standards development in will require additional members with expertise in this field. Welcome new members; membership recruitment at TMS Spring meeting. Press release.

8. New Business

9. Next Meeting

9.1. ACI Spring Convention March, March 30, 2020, Rosemont/Chicago, IL

10.Adjourn