



# COOLING TECHNOLOGY INSTITUTE

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## PERFORMANCE & TECHNOLOGY COMMITTEE CLOSING MEETING MINUTES

July 9-11, 2012

### 1. CALL TO ORDER

Kenneth Hennon, Performance & Technology Committee Chairman, called to order the closing meeting of the P&T Committee on July 11, 2012 at 11:05 a.m. at the Hilton El Conquistador in Tucson, AZ.

### 2. ATTENDEES

The list of attendees is attached.

### 3. ACTIVE TASK GROUPS

#### a) ATC-105 (Thermal Tests) – Rich Harrison, Chair

The new outdoor wet bulb instrument specification was reviewed and discussed. The helper tower (once-through) interpretation methods were reviewed and discussed. The wind measurement method and lapse rate indicators for natural draft towers were discussed. The document about uncertainty calculation will be reviewed shortly.

#### b) STD-146 (Flow Measurement) – David Wheeler, Chair

The draft RFQ for the Pitot tube study, prepared by Rich Aull, was reviewed and discussed. It is close to completion. The committee is asked to send additional comments to Rich Aull to finalize the RFQ shortly. Target is to issue the final RFQ before October 2012.

#### c) STD-201 (Certification) – Frank Michell, Chair, and Trevor Hegg, Co-Chair

This is standing task group. Outstanding items continue to be reviewed. There were several conference calls since February 2012. Next conference call is scheduled for August 21, 2012. Changes to the Data of Record (DOR) for closed circuit towers with plate heat exchangers were approved. The standard has been split in two draft documents: an Operations Manual (OM) and a Rating Standard (RS) which were reviewed and discussed. An updated draft of the OM and RS will be discussed during the next conference call. The new draft will include several new definitions. Past ad-hoc comments were further reviewed and resolved. There was a discussion on the need to have consistency of test tolerance between STD-201 and STD-202 but no definitive conclusion was reached.

#### d) Technical Review – Trevor Hegg, Chair

All standard reviews are up to date. The TG recommends creating a standard for outdoor wet bulb instruments.

#### e) ATC-128 (Sound) – Jean-Pierre Libert, Chair

The current draft review was completed. A few additional comments were received and the origin of equation 7 in the document will be researched. The final draft will be issued within two months

to the TG members for final review and approval. The T.G. will be asked to vote to approve the document by email ballot before the end of October.

f) STD-202 (Publication) – Paul Lindahl, Chair

This task group will continue to meet for the foreseeable future. Several major proposed changes were reviewed and discussed. There was consensus to reject the proposal to restrict the publication to Plant Owners/Operators or CTI membership. The items open for discussion are whether a test tolerance similar to STD-201 should be addressed and the minimum number of participating manufacturers. An updated draft will be issued shortly for review and resolution of the open items. When the draft is approved, it will be sent to ad-hoc review.

g) PFM-143 (Airflow Measurement) – Paul Nelissen, Chair

This is a new Task Group. A copy of the current guideline was shared with the TG members and comments after review were requested to be sent to the TG Chair in the next few weeks.

h) ATC-140 (Drift) – Ken Hennon, Chair

The TG met to discuss the merits of the conductivity method of analysis for drift rate determination. It was decided that there are too many unknowns pertaining to the challenges and potential test biases associated with conductivity based analyses to include this analysis technique in the drift code at this time.

i) PTG-156 (Test Preparation Guide) – Ken Hennon, Chair

A draft was presented with edits to be reviewed by the TG members. New drawings will be included. The purpose of this revision is to make the current document more user-friendly.

j) General discussion

- It is very convenient to have a projector and a screen in the meeting rooms. Hopefully projectors will be available during future summer workshop meetings.
- The standard text at the beginning of a number of CTI documents still refers to “cooling towers” and should be updated to “cooling technology equipment” or some wording that better reflects the current mission and scope of the CTI.

#### **4. NEW BUSINESS**

a) None

The meeting was adjourned at 11:35 a.m.

Minutes prepared by:  
Jean-Pierre Libert, P&T Co-Chair  
Kenneth Hennon, P&T Chair

July 25, 2012

## July 2012 Performance & Technology Meeting Attendees

Aull, Rich  
Bugler, Tom  
Burdick, Larry  
Butler, Ian  
Christophe, Duquennoy  
Cuerdon, Marty  
DePalma, Tony  
Ganzitti, Vincent  
Hamilton, Jennifer  
Harrison, Rich  
Hegg, Trevor

Hennon, Ken  
Jordan, Jason W.  
Libert, Jean-Pierre  
Lindahl, Paul  
Liu, Zan  
Magose Eju  
Medlen, Jared  
Michell, Frank  
Miller, Bill  
Nelissen, Paul  
Nevins, Scott

Randall, Doug  
Seawell, Jess  
Shaw, Mark  
Stich, Nicholas  
Troncin, Helene  
Upton, Craig  
Weast, Tom  
Wheeler, David  
Woods, Barry