



# COOLING TECHNOLOGY INSTITUTE

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## Cooling Technology Institute 2013 Winter Meeting Corpus Christi, Texas

### CTI Engineering Standards and Maintenance Committee

#### Closing – General Session, February 6, 2013

Bill Howard, Cooling Tower Depot - Chair  
James Blake, American Lightning Protection - Vice Chair [Absent]  
Ken Mortensen, SPX Cooling Technologies - Vice Chair and Secretary  
Jim Baker, CCS Cooling Twr, Jon Bickford, Alliant Energy, AdHoc Coordinators

#### I. Call to Order/Announcements/Introduction of Attendees -

At 4:35 PM, Bill Howard began the meeting. A list of 8 attendees at the Closing meeting is available.

#### II. Lead Task Group Chair Reports

##### Wood, Metal, and Concrete Materials Task Group [Bill Howard]

- **Wood, Jane Hauser [including Redwood, Douglas Fir, Connections, and Plywood]** met Wednesday at 1:30PM. Designating as Historic or Obsolete: STD – 104 and 117. Reviewed: STD – 103, 114, and 119 for final to AdHoc in July, 2013. STD – 134 will be considered last. NDS will affect all of these documents.
- **New Guideline, Cleaning of Cooling Towers, Phillip Poll** – Document will include Basin Cleaning, Disinfection and Fill cleaning.

##### Mechanical Equipment Task Group [Dave Suptic, Craig Burris]

- **STD-151 – Variable Frequency Drives, Dave Suptic** – will be a guideline.
- **New Standard – Vibration, Dave Suptic** – met and worked on the draft including monitoring, instruments, probe location, baseline development, with frequency tables and graphs. This document is expected to go to AdHoc after the Summer Meeting.
- **Chapter 11 – Electrical Components, Dave Suptic** – met and plan to refer to other documents for many items, the specifics will be about motors. The current revision will be e-mailed prior to the Summer Meeting.

##### FRP and Plastics Task Group [Glenn Barefoot, Jamie Bland]

- **New Guideline – Wood to FRP, John Ahern, Ken Mortensen** – met Tuesday at 11:30AM. Document outline discussed and assignments for sections made for completion and return to John Ahern by June 1. John will assemble and send out the document for Summer Meeting.
- **STD - 124 – FRP Fan Stack Design, Jamie Bland** – met to review and resolve Ad Hoc comments and recommend sending this document for Board approval.
- **New Task Group for STD-136** – met 10AM Tuesday. This document will become 2 Standards, one on material and one on design of product.



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## **Tower Operations Task Group [Jim Baker]**

- **Chapter 13 – Inspection of Cooling Towers** – no meeting
- **STD-203 - Industrial Cooling Tower, Tom Toth** – met Wednesday at 3:30 PM to revisit document and plan next steps. Expect to detail and send to AdHoc after Summer Meeting.

## **Hazard & Environmental Protection Systems Task Group [James Blake]**

- **Chapter 7 (Water) & Chapter 8 (ES&M) Environmental Aspects of Cooling System Operation, James Blake** – plan yet to be determined.
- **New Guideline, Field Erection Practices, Greg Mailen** – no meeting, will meet in Summer.
- **BUL-109 Nomenclature of Industrial Cooling Towers, James Blake** - ready for AdHoc.

## **Old Business**

- **Information, R Seismic Factor, Bill Howard** – Update is the latest ASCE 7 document includes  $R_f$  of 1 to 1.5, continuous columns, height restriction of 50', brace at every frame, diaphragm at 25% weight levels. Estimate is \$150,000 for testing. Test on Crossflow with load at the top for simulation with sensors in place. The next meeting is the 1<sup>st</sup> week in May in Pittsburgh. CTI letter to be requested as complaint to ASCE on this subject.
- **Materials Certification** – awaiting a technical director.

## **New Business**

- **OP304 Document Procedure** – Bill Howard, Jim baker, and Jon Bickford to comment to the Policy and Procedures Committee as input to the procedure redraft.
- **ASTM D20** – Chairman Bhyrav Mutnuri described the ASTM process and offered information and participation from CTI users of FRP products to the task group writing the document beginning in March, 2013.
- **New Groups proposed – Filament Wound Pipe STD – 154, corrosion of Concrete, and Hazards and Environmental Issues.**

## **III. Adjournment – at 5 PM**