



COOLING TECHNOLOGY INSTITUTE

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Cooling Technology Institute 2012 Summer Meeting Tucson, Arizona

CTI Engineering Standards and Maintenance Committee

Closing – General Session, July 11, 2012

Bill Howard, Cooling Tower Depot - Chair
James Blake, American Lightning Protection - Vice Chair
Ken Mortensen, SPX Cooling Technologies - Vice Chair and Secretary
Jim Baker, CCS Cooling Towers, AdHoc Coordinator

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

At 9:03AM, Bill Howard opened the meeting. A list of 16 attendees at the Closing meeting is available. Discussion items from opening and closing included:

1. The “draft” label needs to be included on all pages of all working documents to distinguish them from official/approved documents
2. Task Chairs must identify their own recommended (4) AdHoc reviewers for Jim Baker and Vicky Manser for each document
3. ES&M needs to do a better job of following-up with a robust AdHoc process, some documents lack feedback
4. The CTI R&D Group is focusing on Certification of Products/Materials to STD-136 Thermoplastics followed by FRP STD-137 in the near future

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 and affirmed 5 year review documents for Board Approval; NDS 2012 will affect these documents, so shortened window for next review is recommended
- **New Guideline, Cleaning of Cooling Towers, Phillip Poll** – met and extended document from just Basin Cleaning to include Disinfection and Fill; noted STD-159 overlap and need to reference where appropriate
- **Information, R Seismic Factor, Bill Howard** – ASCE 7 process will control the activity and drafting proposal for work and schedule; looking for contribution dollars from manufacturers for testing

Mechanical Equipment Task Group [Dave Suptic, Craig Burris]

- **STD-151 – Variable Frequency Drives, Dave Suptic** - met and considered Ad Hoc comments; sending document for Board approval
- **New Standard – Vibration, Dave Suptic** - met and wrote a rough draft that includes monitoring, instruments, probe location, baseline development, with frequency graph



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- **Chapter 11 – Electrical Components, Dave Suptic, Raul Castillo** - met and wrote a first draft of the revision for this chapter based on current industry standards

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

- **New Guideline – Wood to FRP, John Ahern, Ken Mortensen** – met and outlined the “process for design” and sub-sections to detail
- **New Guideline – FRP Fan Stack Design, Jamie Bland** - met review AdHoc comments and recommend sending this document for Board approval

Tower Operations Task Group [Jim Baker]

- **Chapter 13 – Inspection of Cooling Towers** - met to review AdHoc comments and recommend sending this document for Board approval
- **STD-203 - Industrial Cooling Tower, Jim Baker** - met and created a draft that will be ready for AdHoc shortly

Hazard & Environmental Protection Systems Task Group [James Blake]

- **Chapter 7 (Water) & Chapter 8 (ES&M) Environmental Aspects of Cooling System Operation, James Blake** - met and plans to finish the liquid discharge portion of Chapter 7, Environmental Impacts, keeping it separate from Chapter 8, which will become Physical Impacts; the group is receiving help from Jon Cohen, Denny Shea, and Helen Cerra representing the Water Treatment Committee
- **New Guideline, Field Erection Practices, Greg Mailen** – met and outlined this document; the group is looking for help to define scope
- **BUL-109 Nomenclature of Industrial Cooling Towers, James Blake** - met to review draft and ready it for AdHoc soon

New Business

- **ASTM D20** – Chairman Bhyrav Mutnuri described the ASTM process and need for participation from CTI users of FRP products to get better and more relevant standards for fiberglass products in real applications.
- **Committee Process** – Bill Howard discussed ways to improve committee process, including document distribution at the opening meeting, pre-circulation of Task Group minutes from the last meeting, and distribution of a Task Group process document to all participants

III. Adjournment – at 9:42AM