



COOLING TECHNOLOGY INSTITUTE

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Cooling Technology Institute 2013 Summer Meeting Del Mar, California

CTI Engineering Standards and Maintenance Committee

Closing – General Session, July 10, 2013

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 Twr, Jon Bickford, Alliant Energy, AdHoc Coordinators

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

At 10:01 AM, Bill Howard began the meeting. A list of 23 attendees at the Closing meeting is available. Opening had 42 attendees, list 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 Tuesday at 1:30PM. Reviewed: STD – 103, 114, 119, and 134 which are expected to enter AdHoc by October BOD 2013 meeting. Designating as Historical: STD – 104 and 117. NDS effects on all of documents is now included.
- **New Guideline, Cleaning of Cooling Towers, Phillip Poll, Don Zelek** – met Monday at 1:30PM. Document will include basin cleaning, disinfection and fill cleaning. Subject assignments were made on fill, eliminators, chemical treatment, and disinfection.
- **Corrosion of Concrete, Narendra Gosain, Tom Kline** – met Monday at 11AM. Draft document was reviewed. Scope was clarified to include concrete and related hardware and reinforcement issues.

Mechanical Equipment Task Group [Dave Suptic, Craig Burris]

- **STD-151 – Variable Frequency Drives, Dave Suptic** – has been approved by the Board of Directors.
- **New Standard – Vibration, Craig Burris** – met Monday at 3PM. Worked on the draft including monitoring, instruments, probe location, baseline development,



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with frequency tables and graphs. This document is expected to go to AdHoc by about the October BOD 2013 meeting.

- **Chapter 11 – Electrical Components, Dave Suptic** – met at 11AM Tuesday. Draft document reviewed and section organization of the document is being laid out, the specifics will be about motors.

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

- **New Guideline – Wood to FRP, John Ahern, Glenn Barefoot, Ken Mortensen** – met Tuesday at 8AM. Document outline discussed and additional input sought for several sections. Plan is to incorporate comments and send out the document for further work.
- **STD - 124 – FRP Fan Stack Design, Jamie Bland** – met and decided to incorporate items into existing STD-124. End this group.
- **New Task Group Guideline on Fill, Eliminators and Louvers, Kevin Hole, Chris Spencer** – met 11AM Tuesday. An outline covering types of fill and DE's, processes of production, bonding, grades of plastic and thickness, flammability, physical properties and support, UV capability, and water quality subjects. This document may become 2 Standards, one on material and one on design of product. Is this a part of STD-136 or a new standard? Further discussion next meeting.
- **FRP STD-137, Glenn Barefoot** – Met at 11AM Tuesday. Discussed a request to include Nylon 6/6 surface veil as an option in this standard. Strongwell and Bedford will test this change in Cooling Tower operation. Standard is not in review cycle, but the voting group will consider the request.
- **Filament Wound Pipe STD – 154, Bill Dougherty** – Revising the standard. Changes are editorial and do not need AdHoc. Go to Board in October, 2013.

Tower Operations Task Group [Jim Baker]

- **Chapter 13 – Inspection of Cooling Towers, Narendra Gosain** – has been approved by the Board of Directors.
- **STD-203 - Industrial Cooling Tower, Tom Toth** – met Wednesday at 4PM to revisit document and plan the next steps. Expect to detail and send to AdHoc after Summer Meeting.

Hazard & Environmental Protection Systems Task Group [James Blake]



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- **Chapter 7 (Water) & Chapter 8 (ES&M) Environmental Aspects of Cooling System Operation, James Blake** – start with comparison of comments to existing document and ask for additional international and Water Treatment input. Plan to be determined.
- **New Guideline, Field Erection Practices, Tom Toth, Jon Bickford, Ken Pate** – met on Tuesday at 3PM. Reviewed the draft document and comments. Need additional input to complete.
- **BUL-109 Nomenclature of Industrial Cooling Towers, James Blake** – Resolving last comments with Water Treatment and P&T. Ready for AdHoc soon.
- **Legionella STD-159, Paul Lindahl** – Ad Hoc comments being resolved. Board of Directors in October.

Old Business

- **Information, R Seismic Factor, Bill Howard** – 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. A letter was received from Jim Harris detailing the multi-year Test Plan and estimate of \$425,000 for that testing.
- **Materials Certification** – awaiting a technical director.

New Business

- **OP304 Document Procedure** – Bill Howard, Jim Baker, and Jon Bickford commented to the Policy and Procedures Committee as input to the procedure re-draft. Re-draft is proceeding to a flow chart and procedure document for Technical Committee chairs.
- **ASTM D20** – Chairman Bhyrav Mutnuri offered information and asked participation from CTI users of FRP products to the task group writing the document.
- **New Groups proposed – None.**

III. **Adjournment** – at 10:36 AM