



# COOLING TECHNOLOGY INSTITUTE

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## Cooling Technology Institute

### 2007 Annul Conference

Engineering, Standards and Maintenance Meeting Minutes 02/05/07

Toby Daley – Composite Cooling Solutions, LLC  
David Theel – Universal Utility Services, LLC Vice-Chair

#### Opening – General Session

##### **Call to Order/Announcements –**

Meeting was called to order at 3:45 p.m. on February 5, 2007.

##### **Introduction of Attendees –**

Returning and new attendees were introduced.

##### **Report of Board Meeting 02-04-07 –**

Report by Bill W Howard of Standards and Guidelines up for Board discussion, approved by or awaiting approval in Ad-Hoc.

##### **Approval of 2006 Committee Workshop Minutes -**

The 2006 ES&M Workshop meeting minutes were read to all in attendance. Bill W Howard stated that “152” needs to be amended by listing it as a Guideline *instead* of a Standard as discussed previously. This amendment, as well as all other topics was voted on, and motion was made, seconded and approved unanimously to accept the minutes.

##### **Professional Development Hours (PDH's) -**

Announcement was made that requests for PDH's were to be directed to Vicki Manser during the Conference.

##### **Reports from Lead Task Group Chairs –**

##### **Wood Standards Task Group – Bill W Howard**

Reported that STD 103, -114, -119 and -134 were complete.

WMS-104 – Wood Maintenance is still to be changed to ESB-104.

WMS-117 – Maximum Life of Cooling Tower Lumber is to be changed to ESB-117.

STD 112 – Pressure Preservative Treatment is still a work-in-progress.

##### **Mechanical Equipment Task Group – Dave Suptic**

Denny Moran acted/reported upon behalf of Dave Suptic who was not in attendance.

STD-131 - FRP Siding Panels was discussed, i.e. the omission of stating panel thicknesses. Consensus of attendees was to include along with present nomenclature. Meeting for further discussion is to be held at 10:30 on 02-06-07.

Chapter 11 - Electrical Components (merged with this Group by consensus at Winter 2006 meeting) is a under review as reported by Denny Moran.

STD-137 - Fiberglass Pultruded Structural Products is still a work-in-progress (acknowledged by Jamie Bland, Vice-Chair).

#### **Metal & Concrete Materials Task Group – Tom Toth**

Guideline – Recommended Guidelines for Portland Cement Concrete was approved.

FMG-144 - Fastener Material Guidelines is a work-in-progress.

PFM-142 - Treatment of Galvanized Cooling Tower to Prevent White Rust is a work-in-progress.

Chapter 9 - Materials of Construction – Ready for Ad – Hoc review.

#### **Mechanical Equipment Task Group – Denny Moran**

STD-111 - Gear Speed Reducers – In Work.

(New) Standard - Tower Vibration is still a work-in-progress. Past work by others needs to be accumulated and redistributed. Committee chair possibly needs reassignment. Meeting schedule for 1:00 p.m. on 02-06-07.

(New) Standard - Cooling Tower Fans needs to Chair assignment.

STD-151 - Variable Frequency Drive Application Guidelines for Cooling Towers is under review.

#### **Tower Operations Task Group – Jess Seawell**

Chapter 1 - Cooling Tower Operations has been advertised for input, with little response.

Chapter 4 - Cooling Tower Winter Operations has been advertised for input, with little response.

(New) Chapter - Operations & Maintenance is new / work-in-progress.

Chapter 13 - Inspection of Cooling Towers is not up for review until 2010.

STD-203 - Industrial Cooling Tower Standard is not up for review until 2010.

#### **Hazard & Environmental Protection Systems Task Group – James Blake**

Guideline – Lightning Protection was reported as pending in Ad-Hoc with possible action by the Board on Thursday, February 8<sup>th</sup>, 2007.

Chapter 12 – Fire Protection was reported by Mike Bickerstaff as a work-in-progress and needs input from other sources. Chris Spencer opined that the current NFPA-214 is not helpful in determining requirements from a user end, only from a design standpoint and suggested inserting verbiage from FM's Data Sheet. This issue was tabled for further discussion and review at a meeting scheduled for 1:00 p.m. on 02-06-07.

Chapter 8 – Environmental Aspects of Cooling System Operation as reported by Denny Shea has already partially been written by the Water side of CTI. However, ES&M needs to handle drafting verbiage regarding air issues. He will coordinate with Water to set up a Joint Task Group and request input from other sources within ES&M regarding air.

(New) Guideline – Cooling Tower Safety is a work-in-progress. Mike Daley and Denny Moran will meet 02-05-07 @ 10:30 a.m. to review current status of work by Julia Taylor (not in attendance) as well as past participants.

#### **New Business –**

Discussion was had regarding re-assigning Ad-Hoc Review within ES&M. Meeting to be held at 8:00 a.m. 02-06-07.

With no further business before the Committee, the meeting was adjourned at 4:40 p.m.