

Cooling Technology Institute

2006 Annual Conference

Engineering, Standards and Maintenance

Meeting Minutes 01/08/06

Toby Daley - T Daley & Associates, Inc, Chair
David Theel - Universal Utility Services, LLC, Vice-Chair
Jennifer Cunningham – Air Liquide America, Vice-Chair
General Session

Call to Order/Announcements –

Meeting was called to order at 2:00 Pm on February 6, 2006.

Introduction of Attendees –

Jim Cuchens was recognized for his service as the ES&M Vice Chair.

Jim rotated off of the Committee as Vice Chair and Jennifer Cunningham was introduced as a new Vice Chair. David Theel was introduced as ES&M Vice Chair.

Non members and first time attendees were recognized and introduced.

Approval of 2005 Committee Workshop Meeting Minutes –

Motion to approve the minutes made by Bill Howard and seconded by Denny Shea.

Minutes were approved by vote.

Professional Development Hours (PDH) –

Bill Howard provided an update on how the PDH Credits are earned and awarded.

Documents Approved in 2005 –

Toby Daley announced that the following documents were announced as approved by the Board during 2005.

- STD-203 (05) “Industrial Cooling Tower Standard”
- Chapter 13 “Inspection of Cooling Towers”

Documents Ready for Ad-Hoc –

Toby Daley announced that the following documents were ready for Ad-Hoc Approval.

- Guideline - “Lightning Protection”
- Guideline - “Portland Cement”
- Standard - STD-114 “Douglas Fir Lumber Specifications (Coast Type)”
- Standard - STD-119 “Timber Connection Specifications”
- Standard - STD-134 “Plywood for Use in Cooling Towers”
- Standard - STD-103 “Redwood Lumber Specifications”
- Guideline WTP-148 “Best Practices for Control of Legionella”

Task Group Reports –

The following Task Group Chairs provided a status updates -

- Guideline – Legionellosis – Tom Bugler
Document is ready for Ad-Hoc Review by P&T and Water Treatment.
- Guideline - Cooling Tower Safety - Julia Taylor

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The outline will be further reviewed and further assignments made at this meeting.

- Standard - FRP Fan Stacks - Tom Toth
The mission of this task group is still being determined as to whether it is to be a material and/ or a performance standard.
- Standard - Vibration - Ian Fletcher
Bill Howard provided the update for this task group in Ian's absence. Bill announced that there would be a meeting of the group at this meeting.
- Standard - FRP Pipe - Bill Daugherty
This standard was to include Filament Wound and FRP pipe. However, the standard will now include Filament Wound pipe only and FRP pipe will be addressed in a separate standard. Bill is going to submit the revised document for comments to his task group and then forward for Ad-Hoc Review.
- Standards - Wood - Bill Howard
STD-112 "Pressure Preservative Treatment of Lumber" is currently in review and options for updating the document was discussed.
- Standards - FRP Structures - Glenn Barefoot
Glenn advised that there would be a short meeting held.

5 Year Document Review Status –

David Theel provided an update on the 5 year reviews for the documents shown below which were performed during the 2005 Summer Workshop.

- WMS-104 (77) "Wood Maintenance"
- WMS-117 (96) "Recommendations for Maximum Life of Cooling Tower Lumber"
- STD-111 (98) "Gear Speed Reducers"
- STD-112 (97) "Pressure Preservative Treatment of Lumber"
- STD-136 (00) "Polyvinyl Chloride Materials Used for Film Fill, Splash Fill, Louvers and Drift Eliminators"
- PFM-142 (94) "Treatment of Galvanized Cooling Tower to Prevent White Rust"
- FMG-144 (94) "CTI Fastener Material Guidelines"
- Chapter 1 (99) "Cooling Tower Operations"
- Chapter 4 (91) "Recommendations for Winter"
- Chapter 8 (81) "Environmental Aspects of Cooling System"
- Chapter 9 (75) "Materials of Construction for Cooling Towers"
- Chapter 10 (99) "Mechanical Components for Cooling Towers"

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- Chapter 11 (84) "Electrical Components for Cooling Towers"
- Chapter 12 (75) "Fire Protection for Cooling Towers"

David had polled the ES&M membership with regard to priority of the documents for implementation of the results. The attached priority matrix shows the results. Chapter 11 was not included in the original poll. It was decided during the meeting to assign it as low priority in the ranking.

Formation of Standing Lead Task Groups (Each with 2 Vice Chairs) –

Toby Daley announced the formation of standing Lead Task Groups based upon Materials and/or Categories as related to Cooling Towers. The intent is to provide more leadership over multiple Task Groups in order to provide meeting and document oversight. The following defines the Standing Lead Task Groups and Chair appointments.

- Wood Materials Task Group – Bill Howard (Vice Chairs Open)
- FRP and Plastics Task Group – Glenn Barefoot Chair, Jamie Bland VC (1VC OPEN)
- Metal and Concrete Materials Task Group – Tom Toth (Vice Chairs Open)
- Mechanical Equipment Task Group – Dave Suptic (Vice Chairs Open)
- Tower Operations Task Groups – Jess Seawell (Vice Chairs Open)
- Hazard Protection and Environmental Task Group – James Blake Chair, Denny Shea VC, (1VC)

Attached is the active documents assigned to each of the Lead Task Group Chairs

Each Lead Task Group Chair is to assign two LTG Vice Chairs by the end of February and their reporting Task Group Chairs and Vice Chairs by March 15th. David Theel is to be advised of the assignments.

Additional Assignments –

- The Ask the Expert designee - Dave Suptic.
- Document Status, Reporting and Monitoring - David Theel
- Professional Development Program (PDH) for ES&M – Bill Howard
- Task Group Meeting Schedules – David Theel
- Attendance Recording – James Blake

Questions from attendees –

The floor was opened for a question and answer session.

New Business –

- Denny Shea requested that spray treating be addressed in the ES&M committee. Toby Daley requested that Bill Howard address in the Wood LTG.
 - An interest for a Standard for connection details when replacing wood structural members with FRP needed was expressed by the several of the attendees.

Meeting was Adjourned at 5:00 PM.