



TECHNOLOGY COUNCIL MEETING

Pre-St Louis Webinar
Monday, June 13, 2016

NOTE: These are not the official minutes until approved by Technology Council

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**PRINCIPAL MOTIONS
TECHNOLOGY COUNCIL MEETING**

Pre-St Louis Webinar
Monday, June 13, 2016

Motion #	Description
1	Technology Council approved the minutes of the January 27, 2016 Winter Conference Technology Meeting as distributed.
2	Technology Council recommends that the Board of Directors approve that RP-1717 , <i>Improve Accuracy and Reproducibility of ASTM-E681 Test Method for Flammability Limit Measurement of 2L Flammable Refrigerants</i> , scope of work be expanded and accelerated as detailed in a letter from the project's P.I., Dr. Peter Sunderland, dated March 17, 2016, for a total additional cost to ASHRAE of \$72,540.
3	Technology Council approved that RP-1569 , <i>CFD Study of Hydraulic Shock in Two-Phase Anhydrous Ammonia</i> , scope of work be expanded as detailed in ATTACHMENT #2 for a total additional cost to ASHRAE of \$91,680.
4	Technology Council recommends to the Board of Directors that a total rebuild of the Standards Online Comment Database be approved at a cost not to exceed \$200,000.

ACTION ITEMS
TECHNOLOGY COUNCIL Weekend Webinar
Monday, October 19, 2015

AI#	Responsibility	Status	Summary
1	Vallort	Complete	Recommend to CTTC a slide for DL's to include in their presentations regarding "How to Join a TC"

ACTION ITEMS
TECHNOLOGY COUNCIL MEETING
Winter Conference, Orlando, FL
Wednesday, January 27, 2016

AI#	Responsibility	Status	Summary
1	Vallort	In Progress	Request an ad-hoc or appropriate group be formed to develop policies required for managing data to support standards including machine-readable data, definitions, or other information and other ASHRAE products. It is recommended that the chair be Chip Barnaby. More members have expressed an interest to be a part of the committee.
2	Vallort	Complete	From the Innovative Ideas list; discuss with Chuck Gulledge the process of ASHRAE Journal articles including dual units for all articles to assure accessibility to international members.
3	Vallort	Ongoing	Jim Vallort to compose a letter to YEA regarding integration of a YEA member into Tech Council.
4	Vallort/Conover	Ongoing	Assign a subcommittee to write a method to control or disclaim document content posted on TC and PC Websites to ensure adherence to ASHRAE policies and positions.

MINUTES
TECHNOLOGY COUNCIL MEETING

Pre-St Louis Webinar
Monday, June 13, 2016

Voting Members Present

Jim Vallort, Chair
Pat Graef, Vice Chair
Charlie Culp
John Harrod
Jaap Hogeling
Julia Keen
Charles Wilkin

Non-Voting Members Present

Babatunde Badru
Wane Baker
Art Giesler
Rita Harrold
Carl Huber
Cesar Lim
Doug Reindl
Max Sherman
Zuraimi Sultan

Absent

Roberto Aguilo, NVM
Karim Amrane, NVM
Mike Bilderbeck, NVM
Eckhard Groll, VM
Dan Int-Hout, VM
Tom Lawrence, NVM
Ben Leppard, VM
Chris Mathis, NVM
Matt Ritter, NVM
Ashish Rakheja, NVM

Guests

Steve Hammerling, AMORTS
Lilas Pratt, MOSP
Stephanie Reiniche, MOS
Mike Vaughn, MORTS

ASHRAE Staff

DD Latham, Admin. Asst.
Claire Ramspeck, DOT

1. CALL TO ORDER

Chair Jim Vallort called the meeting to order at 9:15 a.m. and asked Vice Chair, Pat Graef, to track the Action Items during the meeting. Mr. Vallort asked for any changes to the agenda. There being none, the agenda was accepted as presented.

Secretary's Note: Quorum was met with 7 voting members, including the chair.

2. APPROVAL OF MINUTES (03)

It was moved by Charles Wilkin and seconded by John Harrod that the:

- M1** Minutes of the January 27, 2016 Winter Conference Technology Meeting be approved as distributed.

MOTION 1 PASSED. Vote: 7-0-3, CV (yes-no-absent)

3. REVIEW OF ACTION ITEMS (04)

Mr. Vallort reviewed the status of the open action items from the Orlando meeting.

4. LETTER BALLOT RESULTS (05)

Mr. Vallort reviewed the letter ballot spreadsheet noting the outcome of the passed motions and one failed motion. Ms. Graef stated that the failed motion was being reviewed with the help of Council member Charlie Culp and a revised motion would be coming forward to Technology Council in the near future.

5. STANDING COMMITTEE REPORTS

A. Standards (06A)

Chair Doug Reindl updated the Council on Standards Committee activities.

B. Technical Activities

No report was provided but one would be presented at the St Louis meeting.

C. Environmental Health (06C)

Chair Zuraimi Sultan reported on EHC's activities and what was on their St Louis agenda.

D. Refrigeration (06D)

Staff reviewed REF's report and their ongoing activities.

E. Residential

Chair Max Sherman updated the Council on RBC's activities, including the status of the planning for the Stakeholders Workshop, a Residential Green Guide, and a Residential Design Guide.

F. Research Administration (06F)

It was moved by Charlie Culp and seconded by Charles Wilkin that:

M2 Technology Council recommend to the Board of Directors that **RP-1717**, *Improve Accuracy and Reproducibility of ASTM-E681 Test Method for Flammability Limit Measurement of 2L Flammable Refrigerants*, scope of work be expanded and accelerated as detailed in a letter from the project's P.I., Dr. Peter Sunderland, dated March 17, 2016, for a total additional cost to ASHRAE of \$72,540.

Background: The proposal to accelerate RP-1717 was in response to a request from White House staff to ASHRAE President Underwood for a proposal after a meeting he had at White House in early March this year. Original cost of RP-1717 to ASHRAE: \$194,560 – Proposed New total cost to ASHRAE for RP-1717: \$267,100 and this is why ASHRAE Board would now also need to approve this new additional work scope. Work to date on RP-1717 indicates that the original scope of work may not be sufficient to formally identify and validate recommended changes to ASTM E681. The proposed additional work is expected to ameliorate the weaknesses in the test method and eliminate the need for a follow-on project on the same topic.

Responsible Committee: TC 3.1 (Refrigerants and Secondary Coolants)
TC 3.1 Approval Vote for Extension: 10-0-0-0 (10) CV:

MOTION 2 PASSED: Vote: 7-0-3, CV (yes-no-absent)

It was moved by Charles Wilkin and seconded by John Harrod that:

M3 Technology Council approve that **RP-1569**, *CFD Study of Hydraulic Shock in Two-Phase Anhydrous Ammonia*, scope of work be expanded as detailed in **ATTACHMENT #2** for a total additional cost to ASHRAE of \$91,680.

Background: The proposed extension is to complete new work scope that was identified after completing the original project's scope of work. Original cost of RP-1569 to ASHRAE:

\$100,000 - Proposed New total cost to ASHRAE for RP-1569: \$191,680 and this is why Technology Council would now also need to approve this new additional work scope. The proposed cost extension reflects a \$40,020 discount from the contractor and would greatly accelerate the completion of this work if we choose not to bid this project as a follow-on project to RP-1569.

MOTION 3 PASSED. VOTE: 7-0-0, CV (yes-no-abstain)

Chair Carl Huber reviewed RAC's information items and activities.

6. SUBCOMMITTEE REPORTS

A. Operations Subcommittee (05A)

It was moved by John Harrod that:

- M4** Technology Council recommend to the Board of Directors that a total rebuild of the Standards Online Comment Database be approved at a cost not to exceed \$200,000.

BACKGROUND: Two options for addressing the functional problems and needed feature additions to the existing Online Comment Database (OCD) and the proposed Continuous Maintenance Database (CMD) were discussed. A Partial Rebuild of the OCD was not preferred as the needed features and content additions would be difficult to use from mobile devices and tablets, and the continuous maintenance change proposals portion would be disconnected from the OCD as a separate web application, thus creating confusion with two different destinations for Standards participation arising. The estimated cost for a partial rebuild is \$100,000. The Standards Committee unanimously supports the pursuit of a complete rebuild of the OCD user interface for mobile devices giving a better user experience for years to come. A rebuild will not only modernize the OCD but it will also create a one-stop-shop for ASHRAE Standards participation thereby increasing performance of the overall application. Advantages common to both proposed solutions include the increase in performance by migrating from SharePoint to a relational database and the reduced licensing costs of a non-SharePoint solution. Features of a rebuild would include the following:

- Replace the SharePoint infrastructure with a relational database
- Redesign and integrate the functionality for the OCD and the CMD into a single web application with the following technical and design specifications
- All screens are responsive and easily accessible from mobile, tablet or desktop devices
- Streamlined User Experience for an integrated Standards Management platform
- Single location for members to keep track of Standards Actions, Public Review Drafts and Continuous Maintenance proposals
- Evaluate the reporting and email confirmation infrastructures to address both design and performance issues.

The approximate cost (subject to completing the final requirements stage) is not expected to exceed \$200,000. This is a capitalized expense. These funds are not in the 2016-17 budget and would have to be added in.

MOTION 4 PASSED. VOTE: 7-0-0, CV

B. Special Projects

No report was provided but one would be presented at the St Louis meeting.

C. DRSC

Chair Pat Graef updated the Council on DRSC activities.

6. DIRECTOR'S REPORT (06)

Claire Ramspeck, Director of Technology, reviewed with the Council ongoing Technology Department activities and shared a list of accomplishments to date.

There being no further business to come before the Council, the meeting was adjourned at 10:00 a.m.

*Attachments to these minutes can be found on the FTP site under:
03 Tech Council Info/Minutes/2016_17/Orlando Meeting 1_27_2016*