

American Society of Heating, Refrigerating, and Air-Conditioning Engineers
TC 9.3 Transportation Air-Conditioning
Draft Minutes for Approval
June 24, 2019
Kansas City

The meeting was called to order by committee chair Don LeBlanc

Attendance did not meet quorum requirements thus no formal business could be conducted.

Roster Update:

Jerome Johnston is stepping down as Secretary and Stephen Trent with Boeing has agreed to come on the committee as a voting member and Secretary.

Clarification on 1262-RP:

Battelle submitted the project database as required by the committee's previous contingent approval. Mike Vaughn sent the database to David Space for review. David has not made a report back to Mike nor to TC 9.3 as to the suitability of the database provided by Battelle. Byron Jones had attempted to contact David following the communications with Mike Vaughn but was unsuccessful and no one present had seen the database. There was a second-hand report that another TC member had reviewed the data and felt there may be some problems but that member was not present at the meeting. After some discussion, it was the consensus of the members present that project should not be closed until the committee had a chance to review the database and voted to approve it. Since formal business could not be conducted a formal motion could not be made. If such a motion is needed, then TC 9.3 will conduct a letter ballot.

Byron Jones will communicate the view of the committee to Mike Vaughn.

Update on 1830-TRP:

Given the offer of American Airlines to provide APU testing for the project, it was felt it should be rebid with a revised work statement. The revised work statement was approved by TC 9.3 but not in time to get on RACs spring meeting agenda. TC 9.3's RAC liaison has approved the work statement and it will be reviewed by RAC at its fall meeting and, hopefully, will go out for bid after that review.

Old Business:

None

Research (Don LeBlanc reporting):

Jon Elson from TC 2.1 contacted the committee at the morning meeting looking for data on the effect of RH on disease transmission. Jon joined the TC 9.3 meeting at a later point and was informed of the study sponsored by TC 5.11 a couple of years ago where an in-depth literature

review on this topic was completed. TC 2.1 is also looking for metabolic data, particularly transient carryover data for transportation vehicles.

Charlie Lin from TC 4.10 will be sending us a work statement for TC 9.3 to consider co-sponsoring. It is on CFD analysis of particle transport in indoor spaces.

Automobiles (G.D. Mathur reporting):

Chapter 10 is done for this cycle. However, G.D. would like people to review it and provide feedback. The review and editing process should be ongoing rather than waiting until the next cycle is due.

Not much going on with regard to ASHRAE research at this time. If we can get a program slot for automobiles, G.D. has a couple of papers for it.

Rail and Mass Transit: (Thaddeus Rogowski reporting):

The group would like to get a working group established to work on Guideline 23. See the Standards report for more information.

Aviation: (No Report)

Ship (Kevin Glover reporting):

Chapter 13 is done for this cycle. Kevin would like to see substantial changes made for next cycle.

Program (no report):

Standards (Don LeBlanc and Kevin Glover reporting):

No update from SSPC 161.

The Rail and Mass Transport Group would like Guideline 23 to go on continuous maintenance and have so voted. In order for this change to be made, TC 9.3 would first need to vote to revise the guideline, which would result in a GPC being formed. Once the GPC has completed the revision, it could then request that the new guideline be put on continuous maintenance. Don LeBlanc will send out a letter ballot to TC 9.3 on the revision question.

There will be a meeting for Standard 26 tomorrow but minimal attendance is expected.

CogNit Air (Pawel Wargocki reporting):

CogNit Air is a large research project being conducted in Europe. ASHRAE is one of a number of sponsors for the project. Byron Jones serves as an ASHRAE liaison on the project advisory committee. The main thrust of the project is to look at the independent and combined effects of elevated CO₂ and VOCs on cognition. It is directed at the frequent flyers and medium to long-haul flights. CO₂ and VOC levels will be raised by adding these substances to the air rather than by limiting ventilation so they can be controlled independently. Selecting the combination of VOCs to include is complicated as it is impossible to exactly duplicate the VOCs generated by people for a variety of reasons. It is planned to

use a combination of 14 chemicals. Test will be conducted in the Franhauffer aircraft cabin altitude chamber facility so that cabin pressure as well as humidity can be controlled and varied. Initial dry run tests are planned for this September at Danish Technical University. It is expected that at least some preliminary results can be presented at the Orlando meeting with more in-depth results reported at the Austin meeting.

The meeting was adjourned by committee chair, Don LeBlanc.