AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC. 1791 TULLIE CIRCLE, N.E./ATLANTA, GA 30329 404-636-8400

TC/TG/TRG MINUTES COVER SHEET

TC/TG/TRG No	MTG -ACR	DATE	September 6 th , 2018	
TC/TG/TRG TITLE	Multidisciplinary task group on air changes rates			
DATE OF MEETING	September 6 th , 2018	LOCATION	Web Meeting	

Members Present		Members Absent		Additional attendance
Kishor Khankari	Chair	Michael Baucom	TC-9.2	Travis English
Roland Charneux	Vice-	Gaylon Richardson	TC-2.2	Joe Zulovich
Bob Burkhead	TC-2.4	Gordon Sharp	I2SL	Carl Huber
Phil Naughton	TC-9.11	Thomas Smith	AIHA	Gary Goodson
Roger Lautz	TC-9.6	Daniel Doyle	I2SL	Larry Howlett
Jim Coogan	TC-9.10	Ken Mead	NIOSH	Nick Agopian
Michael Locke	SSPC 170			
Henry Hays	TC-2.2			
Erich Binder	TC-9.2 ALT			
Clifford Cooper	AIHA ALT			

DISTRIBUTION

All Members of TC/TG/TRG plus the following:				
TAC Section Head				
TAC Chair				
All Committee Liaisons As Shown On TC/TG/TRG Rosters				
Standards liaison : Manager of Research & Technical Services				
Research liaison				

1. Call to order 15:00 (EST) and Introduction

Kishor Khankari called the meeting to order and established a quorum with 9 voting plus chair members on 12 voting members. There were 7 members plus 2 alternate and chair.

Kishor reminds every attendee to adhere to the ASHRAE code of ethics.

2. Approval of the Agenda

The agenda is approved.

3. Approval of Minutes

A motion to approve the April 16th 2018, minutes, proposed by Jim Coogan, seconded by Henry Hayes (9-0-0-CNV).

4. Change in the roster

Nick Agopian join the committee for SSPC-62.1.

5. Meeting dates

The following dates have been proposed for the web meetings: end of November, end of February, end of May and early September.

6. Status of the work statement – Phil Naughton

WS 1833 – Literature Review for Evidence of the Basis for Specified Air Change Rates (ACR) for Cleanrooms, Laboratories, laboratory animal facilities, and health care facilities with medium to high ACR. RFP is expected to be released in the fall 2018.

Following members agreed to serve on Project Evaluations Subcommittee (PES)

- Phil Naughton Chair
- Erich Binder Member
- Jim Coogan Member
- Travis English Member
- Henry Hayes Member
- Michael Meteyer Member

7. ASHRAE meeting program

A forum on generation rate is proposed by Kishor for Atlanta.

8. Reports from members

- 8.1. TC-9.11 Phil Naughton
 - ✓ Generation rate research in cleanroom is completed and report should be published soon;
 - ✓ Research 1604 on demand control ventilation almost completed.
- 8.2. TC-9.02 Erich Binder
 - ✓ Future guides to be produced:
 - Industrial HVAC guide ACR;
 - Gas factories ACR.
 - ✓ Michael Baucom could present these guides at a MTG-ACR meeting.
- 8.3. SSPC-170 Michael Locke
 - ✓ M. Locke gave conferences presentation to TAB, NEBB and AABC Associations on practical measurement of ACR for OR, isolation rooms and procedure rooms.
- 8.4. TC-2.4 Bob Burkhead
 - ✓ MERV will be replaced by ISO definitions;
 - ✓ Recirculation rates could be required;
 - ✓ Test methods for air filtration under study.
- 8.5. SSPC-170 Travis English
 - ✓ In many countries operating room are tested as cleanrooms. Viable and nonviable;
 - ✓ Code equivalence, performance;
 - ✓ Type of cleanliness produced with code specified ACR.
- 8.6. TC-9.6 Roger Lautz
 - ✓ Correlate ACR with: risks, infections...;
 - ✓ Survey of factual on literature to scientifically support the ACR;
 - ✓ Presentation of the potential.

- 8.7. TC-9.10 Jim Coogan
 - ✓ Emission of contaminants in labs;
 - ✓ Isopropyl alcohol to replace SF-6 for fume hood testing;
 - ✓ Lab classification guide published;
 - ✓ Presentation to I25L and NREL groups;
 - ✓ Adam Bare or Tom Smith could make a presentation to our group. (more or less 15 minutes).
- 8.8. Cliff Cooperto present the 28th at SimBuilt conference on tracer gas for ACR determination.
- 8.9. Kishor Khankari has written two articles on the HVAC for hospital operating room in the ASHRAE Journal showing that airflow patterns are not very different with low or high airflow rates. However, the HVAC configuration plays important role than ACR.

9. New Research Projects

- 9.1. Generation rates Literature review no leader yet.
- 9.2. Ventilation efficiency no leader yet
 - ✓ Do some CFD analysis on typical cases to maximize effectiveness;
 - ✓ Correlation between CFD and field measurements;
 - ✓ Clarify the definition of ventilation effectiveness.
- 9.3. Acceptable level of contaminants
 - ✓ What is the acceptable levels, hygienist, epidemiologists?
 - ✓ This could be out of our scope.
- 9.4. Items 9.1 and 9.2 should be our priorities.

10. Meeting in Atlanta

Kishor will plan for an unofficial meeting in Atlanta.

11. No old business

12. No new Business

13. Meeting adjourns at 5 pm.