

**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

(Minutes of all TC/TG/TRG Meetings are to be distributed to all persons listed below within 60 days following the meeting.)

TC/TG/TRG NO 3.3 DATE March 9, 2016

TC/TG/TRG TITLE Refrigerant Contaminant Control <http://tc0303.ashraets.org/>

DATE OF MEETING January 26, 2016 LOCATION Orlando, FL

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Julie Majurin – Chair	VM			Debra Kennoy
Rob Yost – Standards	VM			Chris Reeves – Handbook
	NQM	Alice Reimer – IM		Frank Nagy – Secretary & Membership
Ray Thomas – Research	VM			Joe Karnaz
Glen Steinkoenig	VM			Knut Petry, Sunny Sundaresan
Marc Scancarello	VM			Roberto Urrego, John Senediak,
Danny Halel	VM			Brad Boggess, Greg Smith,
	VM	Bob Woods		Helen Dans, Valerie Baish
Joe Longo	VM			Scott Gustafson, Hugh O’Reilly
Rosine Rohatgi	VM			Yanwei Cen, Scott Wujek
Alan Cohen - Webmaster	VM			Ivan Rydkin, Elyse Sorenson
Joe Nigro – Vice Chair & Program	VM			Senthil Kumar, Bryson Barzimi

DISTRIBUTION

<i>All Members of TC/TG/TRG plus the following:</i>	
TAC Section Head:	<u>Jay Kohler</u>
TAC Chair: TAC Vice-Chair:	<u>Eric Adams</u>
All Committee Liaisons As Shown On TC/TG/TRG Rosters:	Mark Spatz - Research Ramon Pons – Handbook Malcolm Knight – Standards William Fleming – Special Pubs C Brian Wandling – Program Stephen Piccolo – CTTC Darin Nutter – ALI/PDC
Manager Of Standards	Stephanie C Reiniche
Manager Of Research & Technical Services	Mike Vaughn
Admin Asst – Technical Services	Tara Thomas

Note: "These draft minutes have not been approved and are not the official, approved record until approved by this committee."

Minutes – TC 3.3 Refrigerant Contaminant Control

1) Call to Order

Julie Majurin (Chair), called the meeting to order at 3:31 pm on Tuesday, January 26, 2016. The meeting was held at the Orlando Hilton, Orange C (LL) Room in Orlando, FL. After introduction of members and guests, a quorum was confirmed with 10 / 11 voting members present. There were no changes or additions to the minutes.

MOTION #1: to approve the minutes was made by Danny Hael & Rob Yost seconded. Motion passed 9-0-0 (CNV).

MOTION #2: to approve change in order of agenda for meeting was made by Glen Steinkoenig & Marc Scancarello seconded. Motion passed 9-0-0 (CNV)

2) Report on TC 3.0 Chair Breakfast Meeting – Julie Majurin

- A volunteer as a CEC advocate for Section 3 Committees was discussed and why it is pertinent to add a refrigeration track for the winter meetings.
- Provisional Corresponding Member may join the TC via the website; afterwards, the TC Chair would move / recognize them as a Corresponding Member.
- TC meetings (via teleconference) are now available for future TC meetings should a future meeting quorum be in question.
- Upcoming Specialty Conferences particular to Section 3 committees.
 - ICR 2015 Yokohama Japan
 - CLIMA 2016 Denmark

Upcoming meetings

- St. Louis – June 2016
- Las Vegas – January 2017

Liaison Comments:

- Mark Spatz (Research): stated that future proposals will specify contractor milestones.

Sub-Committee Reports

3) Program – Joe Nigro

- Orlando Seminar – “Making the Commercialization of Low GWP Refrigerants a Reality” (Seminar 16) was co-sponsored with TC 3.2 & 3.4. Special thanks to Chair (Ed Hessel) and Speakers.
- Orlando Seminar – “Best Practices in Manufacturing, Field Installation and Servicing Refrigeration & Air Conditioning Systems (Seminar 37) was co-sponsored with TC 10.7. There were over 70 attendees! Special thanks to Chair (Georgi K.) and Speakers.
- Joe is working with ASHRAE to consider putting the Refrigeration Track back to the Winter meeting vs Summer meeting for better attendance.

- Future Seminar – “Lubrication Effect Beyond the Compressor” to be chaired by Joe Karnaz. **MOTION #3:** for TC 3.3 to co-sponsor seminar was made by Glen Steinkoenig & Rob Yost seconded. Motion passed 9-0-0 (CNV). TC 3.4 and possibly TC 10.3 will co-sponsor.

4) Handbook – Chris Reeves

- Chapter 7 is on track (next publication is 2018). Subcommittee members are; Elyse Sorenson & Juan Flores.

5) Standards – Rob Yost

- SPC 35-2014 – “Method of Testing Desiccants for Refrigerant Drying”- was reaffirmed in Dallas (2013); 1 year left prior to vote.
- SPC 63.1 – “Method of Testing Liquid Line Filter Driers” – subcommittee met; under review for St. Louis. Chris Reeves is Chair w/ members: Alan Cohen, Jorge Cabrera & John Senediak.
- SPC 63.2 – “Method of Testing Liquid Line Filter Drier Filtration Capacity” – per subcommittee chair, Glen Steinkoenig, the standard was revised and on track to finalize for St. Louis.
- SPC 78 – “Method of Testing Flow Capacity of Suction Line Filters and Filter Driers” – revision under way per Chris Reeves, subcommittee chair.
- SPC 219 (has replaced SPC 63.3) -- “Method of Testing Acid Filters” -- John Senediak, subcommittee chair will revise scope to include inorganic acids; working on subcommittee (6 members for St. Louis).

6) Research – Raymond Thomas (& Alan Cohen)

- RP 1641: “Effect of Unsaturated Fluorocarbon Contaminants on the Reliability and Performance of HVAC&R Equipment” – Rosine Rohatgi of Spauschus completed final report and has been approved by PMS. It is ready to be presented in St. Louis. **MOTION #4:** to accept approval of final report was made by Glen Steinkoenig & Danny Hael seconded. Motion passed 10-0-0.
- RP 1740: “Hydrogen Fluoride Capacity of Desiccants” – original contractor bid was rejected; request for new bid went back to RAC. New bidder names were submitted.
- RP 1665 - “Reactivity of R-40” -- (There is a safety concern with the reactivity of R-40 contaminant in R-134a primarily with aluminum.) Data indicates reactivity from 100ppm to 5% levels. Final report completed and accepted with paper to be presented in Las Vegas by Steve Kujak.
- WS 1790 - “Distribution of Water between Vapor and Liquid Phases of Low GWP Refrigerants ” – RTAR rejected initially (has merit but needed to be beefed up); Brad Boggess (author) will re-submit as work statement (Glen Steinkoenig & Alan Cohen to assist).
- WS 1774 – “Effect of System Chemicals Towards the Breakdown of Lubricants and Lower GWP Refrigerants” – conditionally approved by RAC; await more information on bidder (Julie Majurin - author). TC 3.2 co-sponsored.
- RTAR: “Determine Maximum Allowable Level of Impurities in HC (non-fluorocarbon) Refrigerant Systems”- continues to be on hold, per Rob Yost, await field feedback via trial specification set by AHRI-700.
- New RTAR – “Effects of Non-Condensable & Other Contaminants on Lowering the Efficiency/Capacity/Healthiness of Buildings”: Rob Yost to champion; subcommittee decided to scratch pursuit.

7) Webmaster – Alan Cohen (& Elyse Sorenson)

- Website is in compliance; please note new web address: (<http://tc0303.ashraetcs.org>). Elyse Sorenson will be replacing Alan as Webmaster.
- 8) **Membership – Frank Nagy**
- Interested new members were asked to either join on line as Provisional or to provide their name / ASHRAE# to be added as Corresponding Member via Chair.
 - **Voting Members for society year were reviewed at meeting start (through June 30, 2016):** Danny Halel, Rosine Rohatgi, Julie Majurin, Glen Steinkoenig, Marc Scancarello, Joe Longo, Bob Woods, Ray Thomas, Alan Cohen, Joe Nigro, Rob Yost & Alice Reimer-NQM.
 - **Committee positions for current society year were reviewed (through June 30, 2016):** Julie Majurin (Chair), Rob Yost (Standards), Raymond Thomas (Research) / Alan Cohen – to replace, Joe Nigro (Program & Vice Chair), Alan Cohen (Webmaster) / Elyse Sorenson – to replace, Chris Reeves (Handbook) & Frank Nagy (Secretary & Membership).

9) **Old Business**

- None

10) **New Business**

- None

11) **Adjournment**-the meeting was adjourned at 4:28

Respectfully submitted,

Frank Nagy
Secretary TC 3.3