TC/TG/MTG/TRG MINUTES COVER SHEET

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

TC/TG/MTG/TRG No. 3.3 DATE January 26, 2018

TC/TG/MTG/TRG TITLE: Contaminant Control

DATE OF MEETING January 23, 2018 LOCATION Chicago, IL

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<th>MEMBERS PRESENT</th>
<th>YEAR APPTD</th>
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<th>EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE</th>
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<tbody>
<tr>
<td>Joe Nigro (Chair &amp; Program)</td>
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<td>Tony Barthel (Research)</td>
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<td>Angel Mendez (Handbook)</td>
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<td>Chris Reeves (Vice Chair)</td>
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<td>Frank Nagy (Secretary &amp; Membership)</td>
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<td>Rob Yost (Standards)</td>
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<td>Julie Majurin, Ed Hessell, Greg Smith, Rosine Rohatgi</td>
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<td>Elyse Sorenson (Web)</td>
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<td>Morgan Herried, Steve Kujak</td>
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<td>Brad Boggess</td>
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<td>Sonny Sundaresan, Amber Saylor</td>
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<td>Jian Sun-Blanks</td>
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<td>John Senediak, Carolina Solaro</td>
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<td>Joe Karnaz</td>
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<td>Shelby Kent, Justin Allemann</td>
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<td>Roberto Urrego</td>
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<td>Kyle Weidmayer, Scott Gustafson</td>
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<td>Debra Kenmoy</td>
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<td>Casey Scruggs, Yanwei Cen</td>
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<td>Ivan Rydkin</td>
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<td>Bill Morton, Chris Campo</td>
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<td>Alice Reimer (NQM)</td>
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<td>Patrick Coughlan, Alan Cohen</td>
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<td>Glen Steinkoenig; Niels Bidstrup</td>
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DISTRIBUTION: All Members of TC/TG/MTG/TRG plus the following:

TAC Section Head: Jay Kohler
TAC Chair: Kelley Cramm

SH3@ashrae.net
Minutes – TC 3.3 Refrigerant Contaminant Control

1) Call to Order

Joe Nigro (Chair), called the meeting to order at 3:30 pm on Tuesday, January 23, 2018. The meeting was held at the Palmer House Hotel in Clark 5. Guests were recognized and welcomed. After introduction of members and guests, a quorum was confirmed with 11 of 11 voting members present.

ASHRAE Code of Ethics – A mention of the Code was made to remind all members and visitors of the Code and that it should be adhered to whenever at an ASHRAE meeting.

MOTION #1: to approve the Chicago agenda was made by Roberto Ureggo & Jian Sun-Blanks seconded. Motion passed 10-0-0 CNV

MOTION #2: to approve the Long Beach minutes was made by Elyse Sorenson & Brad Boggess seconded. Motion passed 10-0-0 CNV

2) Report on TC 3.0 Chair Breakfast Meeting – Joe Nigro (pertinent documents to be posted on TC 3.3 website)

ASHRAE Publication announced:
- A portal on Standard 90.1. It’s free to use until March 15th.
- The ASHRAE Technology Portal is a new site offering (some free and some by subscription) free access to Journal articles, research reports, conference papers and conference seminars to ASHRAE members.

ASHRAE Technology – free access to papers

ASHRAE will celebrate 125 Years. There is a call for papers on technologies and important ASHRAE milestones occurring between 1920 – 2000. Abstracts on these what you consider to be a ASHRAE milestone are due in March 2018. With accepted paper due September 2018. Details will be on the website.

CEC Provided an update on the Winter Meeting:
- Please upload papers for presentation on time – the statistic shows a trend where people are ignoring the upload dates and in this case the presentation will not be made.
- Huston Seminar proposals are due Feb 9th. For 109 slots so far ASHRAE has received 150 submissions. If your interested in presenting make sure your abstract stands out.
- The next Winter Conference in Atlanta will feature a Refrigeration track. Conference Paper abstracts are due Mar 5th and seminar abstracts are due June 4th.
- This year’s Hightower Award was won by TC 1.6 Art Hallstrom
• Need people to review conference papers.

Upcoming Meetings:
• Houston – June 23-27, 2018
• Atlanta – January 12-16, 2019

Liaison Comments:
• Niels Bidstrup - Standards: reminded TC that SPC 35-2014 needed a vote to either revise, withdraw or reaffirm.
• Steve Kujak – Research: gave an update on bid funding & project monitoring.

Sub-Committee Reports

3) Program – Joe Nigro
• The Chicago mini track (4 total) was a success. The talks were well attended and based on feedback reached a wider audience than normal as had been as intended. Thanks to everyone that participated.
• The CEC will support a refrigeration track to be held at the Winter conference. The desire is for Section 3 to focus on a coordinated seminar mini track annually. In general Section 3 would pass on the summer meeting. This concept was discussed by the TC. The TC agreed to support a mini track similar to this year’s track in Atlanta. The joint program team will meet before the summer meeting and issue an umbrella of topics for the Atlanta conference.

4) Handbook – Angel Mendez
• Chapter 7 updates and revisions were accepted by ASHRAE for 2018 publication.

5) Standards – Rob Yost
• SPC 35-2014 – “Method of Testing Desiccants for Refrigerant Drying”: MOTION #3: to revise SPC 35 was made by Rob Yost & Debra Kennoy seconded. Motion passed 10-0-0 CNV. Amber Saylor will Chair the sub-committee and is looking for four members.
• SPC 63.1 – “Method of Testing Liquid Line Filter Driers” – is under revision. The sub-committee Chair, Chris Reeves stated there is concern with the KF procedure but it should be ready by Houston. They have a viable committee and appreciates the help.
• SPC 63.2 – “Method of Testing Liquid Line Filter Drier Filtration Capacity” – this standard is current and will not require reauthorization until 2021.
• SPC 78 – “Method of Testing Flow Capacity of Suction Line Filters and Filter Driers” – this standard is current and will not require reauthorization until 2021.
• SPC 219 (has replaced SPC 63.3) -- “Method of Testing Acid Filters” – The sub-committee Chair, John Senediak stated their first draft may be ready for Houston.
6) **Research – Tony Barthel**

- RP 1740: “Hydrogen Fluoride Capacity of Desiccants” – Steve Kujak stated that the funding is still there and that a new bidders list needs to be submitted to RAC by March 15. Rob Yost has taken the point on this.

- WS 1790 - “Water Solubility and the Distribution of Water between Vapor and Liquid Phases of Low GWP Refrigerants” – previous revisions were approved by RAC; RAC approved bid with request for proposal in March.

- WS 1774 – “Effect of System Chemicals Towards the Breakdown of Lubricants and Lower GWP Refrigerants” – the final report was submitted by Rosine Rohatgi of Spauschus; await PMS to approve report.

- New RTAR – “CO₂ Systems” to address right level of water in system with actual testing due to potential expansion valve issues (hydrate at 11C, acid problems). **MOTION #4:** for TC 3.3 to sponsor and accept the RTAR as written was made by Rob Yost & Roberto Urrego. Motion passed 10-0-0 CNV. Ivan Rydkin, author stated that TC 10.6 will co-sponsor.

- New Research Ideas – put on hold for now.

7) **Webmaster – Elyse Sorenson**

- Website is up to date. ([http://tc0303.ashraetcs.org](http://tc0303.ashraetcs.org)). The updated Research Plan will be posted.

8) **Low GWP MTG – Steve Kujak / Joe Karnaz**

The Low GWP MTG is working to accelerate acceptance of A2L refrigerants by removing road blocks to the use of these products.

Three work projects were updated:

- **1806 – Flammability Modeling** – the modeling task 1 report is complete and being reviewed. If voted to be acceptable by the end of the month, then modeling task 2 will commence.

- **1807 – Flammability boundaries** – the final report is under review.

- **1808 – Mechanical Joints and Leaks** – the work is 85% done. Professional and student were trained to make joints. Upon testing differences were found between the two groups. Compression joints were tests and some leaks found. The final report will follow.

9) **Membership – Frank Nagy**

- **Committee and Voting Members for next society year (2019):**

  - **Committee:** Chris Reeves, Chair; Angel Mendez, Vice Chair, Steve Kujak, Program; Ivan Rydkin, Handbook; Rob Yost, Standards; Tony Barthel, Research; Frank Nagy, Secretary / Membership

  - **Continuing VM:** Chris Reeves (’20); Rob Yost (’19); Debra Kennoy (’20); Brad Boggess (’20); Ivan Rydkin (’20); Joe Karnaz (’21); Elyse Sorenson (’21); Roberto Urrego (’21); Jian Sun-Blanks (’21); Alice Reimer (NQM)
• New members: if you are interested in joining TC 3.3, please go to the 3.3 website and register as a Provisional Corresponding Member.

10) Old Business

• None

11) New Business

• Joe Nigro (Chair) thanked Scott Gustafson for being TC3.3 ALI (ASHRAE Learning Institute) champion. We are looking for another ALI member that attends TC3.3 to replace Scott.
• In Chicago ALI member Tom Leck provided a course to better understand the new lower GWP refrigerant options.
• KOBE Conference (Kobe, Japan) will take place this year December 6-7 -- “New Refrigerants and Environmental Technology 2018”

12) Adjournment—a motion to adjourn the meeting was made by Roberto Urrego & Jian Sun-Blanks seconded; meeting was adjourned at 4:31PM

Respectfully submitted,
Frank Nagy Secretary TC 3.3