

ASHRAE

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.  
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Technical Committee Cover Sheet

TC NO. 3.3

DATE: January 24, 2006

TC TITLE: Refrigerant Contaminant Control

LOCATION: Chicago, IL

MEMBERS PRESENT	STATUS	MEMBERS ABSENT	STATUS	EX-OFFICIO MEMBERS ADDITIONAL ATTENDANCE
Bob Woods	VM	Hans Hoefler	IM	Chris Bertelo
Alan Cohen	VM	Cary Haramoto	VM	Martha Garcia
Raymond Thomas	VM	Danny Halel	VM	Steven Spletzer
Sonny Sundaresan	VM	Glen Steinkoenig	CM	Sunil Nanjundaram
Joe Karnaz	VM	Karim Amrane	CM	George Rusch
Rob Yost	VM	Jim Bouril	CM	John Senediak
Fred Polley	VM	F Broesby-Olsen	CM	Don Fenton
Rosine Rohatgi	CM	Charlie Butler	CM	Florentino Mendez
Jay Field	CM	Denis Clodic	CM	Sam Cummings
Frank Nagy	CM	John Danaher	CM	
Ken Lilje	CM	Clint Finstad	CM	
Rich Cavestri	CM	Glenn Hourahan	CM	
Debra Kennoy	CM	D Huttenlocher	CM	
Jorge Cabrera	CM	Nazih Khatib	CM	
Ali Nejad	CM	John Kuca	CM	
Scott Gustafson	CM	Sung Lim Kwon	CM	
Yanwei Cen	CM	Mike Lacey	CM	
Eric Newberg	CM	Thomas Leck	CM	
		Nemat Lotfi	CM	
		Ken Manz	CM	
		Mike Overstreet	CM	
		Shelvin Rosen	CM	
		Emmanuel Saforo	CM	
		Don Schuster	CM	
		William Walter	CM	
		Ward Wells	CM	
		David Wilson	CM	
		Xiaomei Yu	CM	

Meeting Minutes of TC 3.3  
Contaminant Control in Refrigeration Systems  
January 24, 2006 Chicago, IL

The meeting was called to order by Chairman Bob Woods in the Wabash Room of the Palmer House Hilton in Chicago, IL at 3:30 pm.

Those in attendance introduced themselves.

Quorum was achieved with 6 of the 9 voting members in attendance.

### *ACCEPTANCE OF MINUTES*

Sonny Sundaresan moved and Rob Yost seconded to accept the minutes of the meeting held in Denver, CO June of 2005; motion carried 6/0/0

\*An additional voting member joined the meeting after acceptance of the minutes bringing total voting members present to 7.

### *ANNOUNCEMENTS FROM CHAIR*

TC Chairman's Breakfast Report:

- Theme for Quebec City is "Coming in from the cold."
- Programs changing to 90 & 60 minute sessions
- Handbook will be available in CD and an electronic version which will allow interactive charts, etc.
- Quebec City meeting room forms were distributed
- George Hightower Award was discussed.
- Standard 78 will require a vote at TC meeting.

### *SUBCOMMITTEE REPORTS*

#### **PROGRAM – Joe Karnaz**

##### **Chicago**

Co-sponsored Symposium CH-06-14 entitled "System Chemistry and Contaminants Research" – Chair - Ken Lilje; there were four presenters.

Co-sponsored Forum 24 entitled "Refrigerant Impurities: Do they matter?" – Moderator – Rob Yost; "*contaminants are important*" was the take away message.

##### **Dallas**

The Seminar entitled "Contaminant Controls and Research" - Chair - Richard Cavestri slated for Quebec City was tabled to Dallas.

A Seminar entitled "Fluid & Solid Contaminants" was proposed – Sonny Sundaresan volunteered as Chair and to coordinate presenters; further discussion and committee vote required in Quebec City.

##### **Long Beach**

A Seminar entitled "Back to Basics II" was discussed as a possibility; further discussion and committee vote required in Quebec City or Dallas.

#### **HANDBOOK – Eric Newberg**

New Handbook cycle will begin with published 2006 version (we're Chapter 6) with next publishing in 2010.

Tino Mendez, Handbook Liaison made special mention of Jay Field's commitment as Handbook Subcommittee Chair and thanked him for all his effort in the new published version. Tino will get back to Eric on where TC 3.8's chapter will be published in 2006.

Eric is looking for volunteers for the Handbook committee.

## **STANDARDS – Rob Yost**

SPC 63.2 Method of Testing Liquid Line Filter Drier Filtration Capacity. Chairman: Bob Woods. Bob is looking for members for the SPC; members interested are Jorge Cabrera and Alan Cohen. A third member mentioned as possibility was Jim Bouril (to be asked at Quebec City).

SSPC 35-92R MOT Desiccants for Refrigeration Drying. Chair: Cary Haramoto. Cary is no longer attending ASHRAE. Glen Steinkoenig had final version prepared June 30, 2004 which was to be submitted to ASHRAE for letter ballot; however, Glen also no longer attends ASHRAE. Jay Field will email the final version to Bob Woods who will forward to ASHRAE for letter ballot.

SPC 63.1 Method of Testing Liquid Line Refrigerant Driers was approved in 2001 and re-affirmed in 2004. The committee has dissolved; Clint Finstad was previous chair. Bob Woods has completed version which was sent to ASHRAE and returned. The Standards Liaison of 2001 will be contacted to help resolve this.

SPC 78 Method of Testing Flow Capacity of Suction Line Filters and Filter Driers (1985 original; 2003 re-authorized) is due for re-authorization. ASHRAE staff reviewed and approved as is with recommendation to re-affirm it. By April 1, a letter ballot is required to re-affirm or intent to revise or to withdraw. Bob Woods moved and Ray Thomas seconded to have Bob Woods email letter ballot to do so with pdf copy; motion carried 7/0/0.

## **RESEARCH – Ray Thomas**

1239 - TRP Distribution of Water between Liquid and Vapor Phases of Refrigerants- Alan Cohen. The final report was accepted via sub-committee 4/0/0. Alan Cohen moved and Ray Thomas seconded to have TC approve final report which carried 7/0/0.

1240 - TRP MOT for Identification and Quantification of Organic Acids on Desiccants-Jay Field. The committee approved this 5/0/1 last meeting. Research Liaison, Don Fenton, will check with ASHRAE on its status.

### **RTARs**

- “Users Guide to System Chemistry Maintenance” – author – Sonny Sundaresan. RTAR was prioritized as third and has been dropped.
- “Oil Effect on Moisture Distribution Coefficient in HFC's” – author - Alan Cohen. RTAR is prioritized as second. RTAR will be revised by Alan under new format and submitted to Research Liaison, Don Fenton via email to review and later advocate with RAC.
- “Guidelines for Judging Effectiveness of Various System Cleaning Procedures” – author – Ray Thomas. RTAR is prioritized as first. RTAR was returned and cited it was not in the proper format and required more references. Ray will address this with Research Liaison, Don Fenton who is to help defend RTAR with RAC committee.

Members of the Research Plan Subcommittee – Ray Thomas – Chair, Alan Cohen, Jay Field, Robert Yost, Joe Karnaz.

Ray summarized the Research Subcommittee Chair Workshop: new guidance in RAC MOP if lowest priced bid is not selected as well as avoiding actual or perceived conflicts of interest (for details see ASHRAE site).

Jay Field addressed a possible new standard MOT of Components to Prevent Capillary Tube Plugging. An ad hoc committee was discussed which would issue a title, purpose, scope and possibly consist of Jay, Sonny Sundaresan and Alice Riemer.

### **MEMBERSHIP – Frank Nagy**

Positions for next society year will remain the same. Voting members were established. New membership interest (as corresponding member) was inquired. Changes to membership were reviewed and will be made to roster.

### **WEBSITE – Alan Cohen**

The TC 3.3 website is up and running on ASHRAE server. Committee officer emails will be listed. Bob Woods and Joe Karnaz praised Alan for all his work. Website is [www.tc33.ashraetcs.org](http://www.tc33.ashraetcs.org).

### **OLD BUSINESS – Bob Woods**

No old business.

### **NEW BUSINESS – Bob Woods**

Ali Nejad suggested a new research project to understand desiccant compatibility and water capacity in CO2 refrigerant systems (liquid and vapor phase). Ray Thomas suggested issuing an RTAR. Sonny Sundaresan will co-write it with Ali and submit it to Ray for committee review and to possibly re-prioritize current RTARs. A letter ballot was discussed with review in Quebec City.

### **ADJOURNMENT – Bob Woods**

Meeting adjourned at 5:10pm as moved by Joe Karnaz and seconded by Rob Yost.

Respectfully submitted,

Frank Nagy  
TC 3.3 Secretary