

DISTRIBUTION
ALL MEMBERS OF TC/TG/TRG

TAC Chairman: MARK HEGBERG
TAC Section Head: BRYAN R BECKER
LIAISONS:
RAC Research: RONALD B BAILEY
Journal: KIMBALL E FERGUSON
Program: LYNN F WERMAN
Standards: STEPHEN V SKALKO
Handbook: BRIAN C KRAFTHEFER
MANAGER OF TECHNICAL SERVICES: Michael R Vaughn
MANAGER OF RESEARCH: William Seaton
STANDARDS STAFF LIAISON: Claire Ramspeck
TECH SERVICES STAFF LIAISON: Michael R Vaughn

MINUTES
ASHRAE TECHNICAL COMMITTEE 8.08
REFRIGERANT SYSTEM CONTROLS AND ACCESSORIES

CHICAGO, IL
TUESDAY, JANUARY 24, 2006
PDR 5 (3), 3:30PM – 6:00PM

I. CALL TO ORDER

The Chair called meeting to order at 3:35pm.

II. INTRODUCTIONS

All present (voting members, corresponding members and guests) introduced themselves.

III. DETERMINATION OF A QUORUM

Five of Nine (5 of 9) voting members (excluding international members) were present, thus there was a quorum.

IV. APPROVAL OF MINUTES FROM THE DENVER MEETING

Farzad was incorrectly listed as a non-voting member. This will be changed and the new minutes posted to the website. Zupp moved to approve, seconded by Littwin. All approved the minutes with above changes.

V. REPORT FROM TC CHAIRS MEETING (M. Farzad)

- 1) ASHRAE has requested that minutes from TC's are to be available within 2 weeks of end of meeting
- 2) ASHRAE has requested that all TC minutes be made available to TC members on the TC website
- 3) Discussion on Meeting Time
 - Several people have conflicts with the 3:30 to 6:00 meeting time
 - All present agreed to a new meeting time of 2:15 to 4:00 on Monday
- 4) ASHRAE has requested that all TC websites be updated at least once every 6 months
- 5) Several committees have collected excessive numbers of corresponding members
 - TC 8.8 has approximately 20 corresponding members
 - This should fall within ASHRAE's recommended number
 - Some TC's such as TC 6.1 have almost 100 corresponding members
- 6) ASHRAE has selected someone for the Hightower Award who is not Peter Malone
 - TC decided to nominate Peter Malone again

- 7) ASHRAE and the Green Building Council are putting together a Green Building Program
- The first step will be to retrofit the ASHRAE Headquarters in Atlanta with some Green building features
 - ASHRAE would like interested parties to contact them about participating in the committee for this activity
- 8) A "scoping study" is underway for "Protocols for Measuring and Reporting the On-Site Performance of Buildings Except Low Rise Residential Buildings". The summary of the activity was circulated through the committee.

VI. SUBCOMMITTEE REPORTS

A. HANDBOOK COMMITTEE – DENNIS LITWIN

- Chapter 45 of the Refrigeration Handbook (Refrigerant Control Devices) was approved via letter ballot by the committee last September
- The chapter is now being prepared for publication in this year's ASHRAE Handbook

A. MEMBERSHIP COMMITTEE – M. FARZAD AND B. JONES

- One engineer has requested admittance to the committee as a corresponding member
- The committee selected new subcommittee chairs for the next two years. These positions are to be effective prior to the next meeting:
 - Vice Chair - V. Payne
 - Secretary - F. Colsoul
 - Handbook - D. Littwin to finish the current cycle, a new chairman to be selected next meeting
 - Standards - N. Zupp

B. RESEARCH COMMITTEE – DUANE WOLF (FARZAD REPORTING)

- SUBCOMMITTEE MET ON SUNDAY, PRESENT WERE F. COLSOUL, B. BITTLE, D. WOLF, M. FARZAD, L. CUMMINGS, AND R. BAILEY (SECTION 8 RESEARCH LIAISON)
- DISCUSSION HELD REGARDING 4 WAY REVERSING VALVE RTAR
- GENERAL CONSENSUS WAS THAT THE ABILITY TO "SELL" THIS PROJECT HAS IMPROVED SINCE THE ORIGINAL RTAR WAS WRITTEN AND REJECTED. THIS IS DUE TO THE INCREASED CONSUMER INTEREST IN HEAT PUMPS DUE TO THE INCREASE IN PROPANE AND NATURAL GAS PRICES
- THREE KEYS AREAS THIS PROJECT WILL ADDRESS ARE: A) QUALITY OF VALVES MANUFACTURED IN LOW COST INFRASTRUCTURE ENVIRONMENTS NEW TO THIS TECHNOLOGY B) POTENTIAL EFFICIENCY BENEFITS (INCLUDING EFFICIENCY REQUIREMENT INCREASES) C) LONG TERM DEGRADATION OF VALVE PERFORMANCE AND IT'S EFFECT ON EFFICIENCY
- GOALS DUANE WOLF AND BOB BITTLE WILL WORK WITH OTHERS TO COMPLETE THE RTAR RE-WRITE FOR TC REVIEW AND APPROVAL IN QUEBEC CITY

C. WEB MASTER – M. FARZAD

- ASHRAE has requested that members review the website
- Web site was up and running in December and last summer

D. STANDARDS COMMITTEE – M. FARZAD AND B. JONES

- Standard 17 is up again for Review.
- Motion made by N. Zupp, seconded by M. Farzad to re-affirm Standard 17-1998 and to have Standards secretary review and submit existing Units Format Plan and reference list. Committee unanimously voted to re-affirm Standard 17-1998
- SPC-153 (L. Cummings)
- A quorum was again not present for this committee. All activity is subject to full committee approval by letter ballot.
- Committee reviewed entire standard and made several changes.
- The air test proposed and created at the last meeting was removed since it had no connection with the rest of the standard and was only expected to cause confusion.
- The rating conditions from Appendix B were moved to Appendix A and re-labelled as "Specified conditions" to eliminate risk of confusion with rating conditions to be supplied by ARI.
- SPC-158.2 (D. Littwin)
- The standard went through public review with no comments.

There was some confusion at ASHRAE since the process has changed in regards to public review.

Dennis was told at one point that no other ballot was required to get the standard to publication. Due to the last ballot only being for "Public Review" another ballot to approve for publication is required.

If the ballot can be approved by 1 February the standard should be published soon.

X. OLD OR NEW BUSINESS

1) Discussed having a list of proposed and completed RTARs available on the Website.

- If anyone has a list of these activities please forward to Mohsen.

2) M. Farzad recommended a forum be held to explore the interest in a Method of Test for leakage of 4 way reversing valves be held. The committee believes that the increasing requirements for Seasonal Energy Efficiency Ratio (SEER) will drive manufacturers of equipment to value a process that allows accurate comparisons and evaluations of leakage to be performed.

Committee established a title as "Internal leakage of Four Way Reversing Valves - Does anybody care?". Motion made by N. Zupp and seconded by M. Farzad to hold forum in Dallas.

Committee voted 5 to 0 to hold forum.

Chairman appointed N. Zupp to moderate the forum.

XI. OPEN DISCUSSION

XII. ADJOURNMENT

Motion to adjourn was made and approved by all.

ASHRAE TC/TG/TRG ACTIVITIES SHEET

DATE: July 6, 2005

TC/TG/TRG NO. 8.08 **TC/TG/TRG TITLE:** Refrigerant System Controls and Accessories

CHAIRMAN Mohsen Farzad **VICE CHAIRMAN** Nick Zupp **SECRETARY** Vance Payne

TC/TG/TRG MEETING SCHEDULE				
<p><u>Location – past 12 months</u> Orlando, FL – Feb 2005 Denver, CO – June 2005</p> <p><u>Location - next 12 months</u> Chicago, IL – Jan 2006 Quebec City – June 2006</p>				
TC/TG/TRG SUBCOMMITTEES				
<u>Function</u>	<u>Chairman</u>			
Standards	Robert Jones			
Handbook	Dennis Littwin			
Programs	Robert Bittle			
Research	Duane Wolf			
Membership	Robert Jones			
Web Site	W. Vance Payne			
RESEARCH PROJECTS – Current				
None				
LONG RANGE RESEARCH PLAN				
<u>Rank</u>	<u>Title</u>	<u>W/S Written</u>	<u>Approved</u>	<u>To R&T</u>
1.	Performance of Four Way Reversing Valves	YES	NO	The RTAR was rejected. Rewriting with hopeful support of TC8.11.
2.	Performance of orifice tube restrictors as refrigerant expansion devices	NO	NO	NO
3.	Performance of adiabatic capillary tubes with zeotropic mixtures	NO	NO	NO
HANDBOOK RESPONSIBILITIES				
Year & Handbook Subcommittee				
	<u>Volume, Chapter & Title</u>	<u>Deadline</u>	<u>Liaison</u>	
2006	45 Refrigerant-Control Devices	Jul 2005	Brian C. Krafthefer	

STANDARDS ACTIVITIES – List and Describe Subjects
<p>- Standard 17 is up again for Review. Motion made by N. Zupp, seconded by M. Farzad to re-affirm Standard 17-1998 and to have Standards secretary review and submit existing Units Format Plan and reference list. Committee unanimously voted to re-affirm Standard 17-1998</p> <p>- SPC-153 (L. Cummings) A quorum was again not present for this committee. All activity is subject to full committee approval by letter ballot. Committee reviewed entire standard and made several changes. The air test proposed and created at the last meeting was removed since it had no connection with the rest of the standard and was only expected to cause confusion. The rating conditions from Appendix B were moved to Appendix A and re-labelled as "Specified conditions" to eliminate risk of confusion with rating conditions to be supplied by ARI.</p> <p>- SPC-158.2 (D. Littwin) The standard went through public review with no comments.</p>
TECHNICAL PAPERS from Sponsored Research – Title, when presented
TC/TG/TRG Sponsored Symposia – Title, when presented (past 3 yrs & planned)
TC/TG/TRG Sponsored Seminars – Title, when presented (past 3 yrs & planned)
TC/TG/TRG Sponsored Forums – Title, when presented (past 3 yrs & planned)
JOURNAL PUBLICATIONS – Title, when published (past 3 yrs & planned)
None known.

Submitted by: Vance Payne

APPENDIX A: CURRENT TC8.08 (REFRIGERANT SYSTEM CONTROLS AND ACCESSORIES)
MEMBERSHIP ROSTER

VOTING MEMBERS		
NAME	POSITION	Term End Date
NICHOLAS G ZUPP	CHAIRMAN	2006-06-30
W VANCE PAYNE	SECRETARY / TC WEBMASTER	2008-06-30
ROBERT R BITTLE	PROGRAM SUBCOM CHM	2008-06-30
DENNIS A LITWIN	HANDBOOK SUBCOM CHM	2008-06-30
ROBERT A JONES	STANDARDS SUBCOM CHM	2006-06-30
LARRY D CUMMINGS	MEMBER	2007-06-30
GUIDO DE SOUZA DAMASCENO	INTERNATIONAL MEMBER	2009-06-30
PETER G MALONE	MEMBER	2007-06-30
ROY J NUNGESSER	MEMBER	2007-06-30
ROBERTO PEREIRA	INTERNATIONAL MEMBER	2009-06-30
NON-VOTING (CORRESPONDING) MEMBERS		
MOHSEN FARZAD	VICE CHAIRMAN	2006-06-30
DUANE A WOLF	RESEARCH SUBCOM CHM	
CHARLES G ARNOLD	CORRESPONDING MEMBER	
CHARLES N BALD	CORRESPONDING MEMBER	
MICHAEL D BLANFORD	CORRESPONDING MEMBER	
RALPH S BRYANT	CORRESPONDING MEMBER	
RICHARD J BUCK	CORRESPONDING MEMBER	
SHENG-CHIH S CHEN	CORRESPONDING MEMBER	
PANDU R CHOLKERI	CORRESPONDING MEMBER	
FREDERIC D COLSOUL	CORRESPONDING MEMBER	
DAVID C DORSTE	CORRESPONDING MEMBER	
WILLIAM R GAMMON III	CORRESPONDING MEMBER	
ARTHUR P GARBARINO	CORRESPONDING MEMBER	
VIRGIL T GULLEY	CORRESPONDING MEMBER	
JACK C INCH	CORRESPONDING MEMBER	
ROBERT T MARKS	CORRESPONDING MEMBER	
KENT A MILLER	CORRESPONDING MEMBER	
MICHAEL E OVERSTREET	CORRESPONDING MEMBER	
CHRISTOPHER E SCHADEWALD	CORRESPONDING MEMBER	
MICHAEL J SCHUETTER	CORRESPONDING MEMBER	
ERNEST W SCHUMACHER	CORRESPONDING MEMBER	
WILLIAM E TINSLEY	CORRESPONDING MEMBER	
JING ZHENG	CORRESPONDING MEMBER	
MARK HEGBERG	TAC CHAIRMAN	
BRYAN R BECKER	TAC SECTION HEAD	
JULIAN R DE BULLET	PROF DEVELOPMENT COMM (EDUCATION)	
STEPHEN V SKALKO	STANDARDS LIAISON	
Kimball E Ferguson	SPECIAL PUBS LIAISON	
BRIAN C KRAFTHFER	HANDBOOK LIAISON 2006	
MICHAEL S MIDDLETON	CHAPTER TECHNOLOGY TRANSFER LIAISON	
RONALD B BAILEY	RAC RESEARCH LIAISON	
LYNN F WERMAN	PROGRAM LIAISON	
Claire B Ramspeck	STAFF LIAISON (STANDARDS)	
Michael R Vaughn	STAFF LIAISON/RESCH/TECH SVCS	