



1791 Tullie Circle, N.E./Atlanta, GA 30329
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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. 3.4 DATE

TC/TG/MTG/TRG TITLE Lubrication

DATE OF MEETING February 11, 2025 LOCATION Orlando and Virtual

MEMBERS PRESENT	YEAR APPTD ENDS	MEMBERS ABSENT	YEAR APPTD ENDS	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Stephen Kujak- Vice Chair	2028	Rashid Zakeri – Chair	2026	Scott Wujek – Research
Raymond Drost- Secretary	2028	Chris Seeton	2026	Tina Brueckner – Section Head
Sheli Porter – Standards	2025	Andrea Irias	2025	Danny Halel- MTG Low GWP
Morgan Leehey (2PM Arrival)	2026			Casey Scruggs- Handbook
Sara Kampfe	2027			*See attached document
Dave Vincent - Webmaster	2025			
Rosine Rohatgi	2026			
Ramesh Navaratnam	2028			
Amy Shifflett	2028			
Joe Nigro	2028			

TC 3.4 Meeting (Hybrid) – February 11th, 1:30 pm – 3:30 pm (ET)

Meeting Link:

https://teams.microsoft.com/join%2F19%3Ameeting_NmRmN2RjY2MtNzRjYS00MjFiLWlWjctZDEzOGJlNDE4MjRm%40thread.v2%2F0%3Fcontext%3D%257b%2522Tid%2522%253a%25220398134e-af0e-4c05-9da7-fbcc41a1cfa7%2522%252c%2522Oid%2522%253a%25224043225e-1cb2-42ac-8dee-25858c8206b9%2522%257d%26anon%3Dtrue&type=meetup-join&deeplinkId=65b8d7ce-e177-4ef8-8fbc-8b627d1a3934&directDl=true&mmsLaunch=true&enableMobilePage=true&suppressPrompt=true

Access Info: Meeting ID: 239 480 217 629 Password: fWFg3d

The schedule of all virtual meetings, technical program and registration can be found at
<https://www.ashrae.org/conferences/2025-winter-conference-orlando>

DISTRIBUTION: All Members of TC/TG/MTG/TRG plus the following:	
TAC Section Head: Tina Brueckner	SH3@ashrae.net
All Committee Liaisons As Shown On TC/TG/MTG/TRG Rosters (Research, Standards, ALI, etc.)	Zheng O'Neil – Research Gerald Kettler – Standards Drake Erbe – Handbook
Mike Vaughn, Manager of Research & Technical Services	MORTS@ashrae.net

Note: These draft minutes have not been approved and not the official record until approved by the TC.

Minutes – TC 3.4 Lubrication

Call to Order – Stephen Kujak

Rashid Zakeri was unable to attend, so Rashid requested Vice Chair, Stephen Kujak to run the meeting. Stephen called TC 3.4 meeting to order at 1:33 pm EDT on February 11, 2025. Meeting was held in-person at Hilton Orlando (Lake Highland AB-Lobby Level) and via Virtual Zoom Conference. Participates were asked to sign the sign in sheet passed around the room and for those on-line using the Zoom Chat function.

Members and guests introduced themselves.

A quorum was established with 10 of 12 members present.

Joe Nigro made motion and David Vincent seconded motion to approve minutes.

The Chair reviewed and read the ASHRAE Ethics Statement.

A quick review of the agenda was made.

Approval of 2024 Indianapolis Meeting Minutes and 2025 Orlando Meeting Agenda

A motion was made by Rosine Rohati to approve the 2024 Indianapolis Meeting minutes as written, the motion was seconded by Sara Kampfe, the motion carried 9-0-1 (Chair abstain).

A motion was made by Sarah Kampfe to approve the 2025 Orlando agenda as written; the motion was seconded by Amy Shifflett motion carried 9-0-1 (Chair abstain).

TC Chair Breakfast – Stephen Kujak

Liaisons

No Liaisons present

Program – Joe Karnaz

Andrea Irias was not in attendance, so Joe Karnaz discussed 2 program ideas:

- Lubricants and their effects on system efficiency: only 2 presenters- got denied by ASHRAE
- High Temp Heat Pumps: No speakers and therefore, was not submitted.

Ramesh Navaratnam is willing to submit High Temp Heat Pump seminar for Phoenix (Steve Kujak, CPI, Patech, and possibly Henna).

No other ideas for future conferences.

Handbook – Casey Scruggs

Casey has list of revisions to be sent out within a few days; will need feedback from committee (needs to be finalized by July 2025).

Standards – Sheli Porter

GPC 40 “Refrigeration Oil Description” – Scott Wujek is the chair. Complete and just need to take a vote; Scott to send out shortly for approval.

Standard 86 “Methods of Testing the Floc Points of Refrigeration Grade Oils” – This standard is being revised by the committee being chaired by Brad Boggess. Concerns regarding R-12 availability. Discussions about rolling ASHRAE into Standard 172P; SSPC needs to be formed.

Standard 172 “Method of Test for Insoluble Materials in Lubricant and Refrigerant Systems”. A committee has been established; Ed Hessell (Chair). Name change to widen scope to affirm title to “Method of Test for Insoluble Materials in Synthetic Lubricants and HFC Refrigerant Systems. Ed Hessell sent out for public review (Sheli confirming with Ed).

SPC 218 “Method of Test for Lubricant and Refrigerant Miscibility Determination” – waiting for last comment and Casey will submit to ASHRAE for review; targeting end of March, 2025.

No other discussion for new Standards

Research – Scott Wujek

The combined Section 3 research subcommittee meeting took place on January 28th, 2025 via a Zoom conference call. Ideas generated at that meeting will be discussed in the individual TC meetings.

Projects –

RP 1879 “Foaming Properties of Low GWP Refrigerant and Oil Mixtures” – Craig Bradshaw; moved to UI. Chris Seeton is Chair. All work completed except for R-32/454B. New student to construct apparatus at UI and expect to have data by the springtime.

RP 1721 “Oil Return and Retention in Unitary Split Gas Lines with HFC and HFO Refrigerants”. This is sponsored by TC 8.11 Unitary and Room Air Conditioners and Heat Pumps; TC 3.4 is a co-sponsor with Chris Seeton as our representative and Purdue University is the PI. No update was provided.

RTAR 1891 “Tribological Interaction Data with Lubricants and Refrigerants”. Scott Wujek Chair; got dropped but reaching out to ASHRAE for RTAR and revamp project. No update was provided.

- Update from Research Subcommittee Meeting
- Others – Any research needs and gaps from review of Handbook Chapters
- Future Research needs and New Research ideas

No other research ideas were communicated, and further discussion was tabled until the next subcommittee and TC meeting in Phoenix.

A few members of RAC should be included to ensure procedure is being followed and ASHRAE awards were discussed.

Webmaster – Dave Vincent

The website is up to date with active meeting link to video conference for future meetings. If anyone needs anything put on website, please contact Dave.

Old Business – Stephen Kujak

No old business.

New business – Stephen Kujak

The new membership voting committee

Next meeting: Phoenix, June 2025

Adjourn – Stephen Kujak

The chair closed the meeting at 2:12 pm through a motion from Joe Nigro to adjourn.