



AGENDA

COMPRESSION PACKING Technical Meeting George Brown Convention Center, Houston, TX. June 22nd 2017

Technical Committee:

Present

Carl Jones- W.L. Gore & Associates

Larry Sheffield- Inertech

Ron Frisard- A.W. Chesterton

Antonio Morales- Empak Spirotallic

Patricia Pichardo - Empak Spirotallic

Brett Yoder - Garlock sealing Technologies

Jim Drago- Garlock sealing Technologies

Mike Kupin - Garlock sealing Technologies

Jason Bailey - American Braiding

David Long - American Braiding

Henri Azibert- FSA

Lucas Norton - A.W. Chesterton

Thomas Jessup - EGC

On line:

Linda Finnegan- New England Braiding

John Morton – John Crane

Laverne Fernandes- Garlock Sealing Technologies

Carlos Quintero – John Crane

Maria Garcia - Montero

Guillermo San Martin- Empak

Greg Raty- Slade

Absent:

Rob Garlock- EGC

I. Approval of Agenda

**a.) Review of minutes from previous technical meeting Motion to approve Linda,
Second Ron, Approved**

II. Anti-Trust Policy

III. Handbook

- **Reformat of existing material**
- **New material – Environmental controls – Why use packing over mechanical seals**
- **Need dedicated working session July 25 2:00 PM EDT to 4:00 PM EDT Henri to set up meeting Carl, Ron, Jim, Mike, Phil, Henri**

IV. Joint FSA-ESA Projects

- a. **Pump Packing Friction Study**
 - i. *Packing carbon fiber/graphite – Hans Dekker sent some instructions for installation procedure – Do not have current testing schedule – Friction coefficient and leak rate to be reviewed*
 - ii. *Went through presentation from Pump Summit/webinar – Importance of water as a lubricant – Issue of number of rings as power is linear with area of packing in contact with shaft*
 - b. **Valve Packing Study**
 - i. *Program defined – calculation spreadsheet – how to qualify performance – how to fix variables – How to apply to customers? Interesting research but is it practical? It could help manufacturers for product development - Could lead to have a testing requirement for each manufacturer to determine coefficient of friction and stress to be applied– Henri to make sure the documents from CETIM shown during meeting is on SharePoint and included in the notes*
 - c. **LCC**
 - i. *Make LCC as on-line tool instead of downloadable file – Doug Volden did say it would support – Alfred Cooper of Ergoseal will provide support to change current formula*
- V. **Education projects**
- a. **FSA Webinar(s)**
 - i. *One done on Pump Packing Friction – Goal is to do one per quarter – Could do one on installation – Existing three-part series could be reused – One on emissions standards update on API 622 and 641 – Safety concerns over rotating parts access, design issues on guards, cutting tools restrictions, outreach to EH&S, could be linked to installation training -*
 - b. **ESA Packing training material**
 - i. *Waiting to receive more images – Being worked on*
 - c. **Knowledge Base**
 - i. *Finish manual first – Could use ESA material?*
 - d. **Valve World USA Training**
 - i. *Gasketing Basics and Compression Packing – Attendance was 7 – some packing and valve manufacturers and 2 end users including an environmental project manager – KCI partner with FSA – Good publicity for FSA*
- VI. **Standards & Regulations**
- a. **API 622 – 641- 602 – 623**
 - i. *API 622 third edition in ballot voting July 11 – will include a test for 1/8th packing as questions came up on packing performance for small valves - corrosion test is being changed – 100 PPM limit no adjustments allowed – (before failure was 500 PPM and allowed 1 adjustment) – API 624 has a 100 PPM limit – question on packing that passed under 622 with one retorque, will it need to be retested for 624 valve test? Then API Technical Committee is back active for 622, and might address non-graphitic packing and lower temperature test for PTFE packing - Also scope is for service up to*

1000F but test is way below due to concerns over auto ignition of methane

- ii. API 641 ¼ turn valves - 100PPM no retorque – refers to 622*
- iii. API 621 Repair standard – repair to make it a low E valve. Trying to determine standard test, methane vs. helium, vs. bubble test*
- iv. API 603 and 608 sent out questionnaire on stuffing box dimensions and finishes – ended up leaving as is*

b. ISO 15848 – nothing new

c. BS 4371/ESA PD 002-

- i. Packing specification – gathering comments – issue has been too much specification vs. minimum quality levels – draft circulated comments to be sent to David Edwin Scott*

d. EN 16752 – All set

e. EPA - Emission Standards

- i. State levels are active – Pennsylvania has circulated new permitting rules where we provided some comments to have lower leakage limits for gaskets and packing – California, Ohio and Colorado active – New York will keep current EPA level*
- ii. UN initiative, no information right now*
- iii. OGI accuracy level is not down to 100 PPM*
- iv. Canada New regulation sent for comment – focus on large leaks but then go back to fix limit 1000PPM and in 2023 go down to 500 PPM – Comments due in July – Presentation from Canada ECCC*

f. WTO Environmental Goods

- i. Negotiations had stalled due to the Chinese uncompromising position and the lack of a US Trade representative. There is new USTR appointed, and talks are likely to resume quickly – Draft letter to be sent by members was prepared by Chris Swonger – Members are encouraged to send the letter – Letter to be distributed to the group. Have Hope to send to the members of U.S. based operations*

g. EU Drinking water standards

- i. Use a test protocol that will include assemblies, not just materials – ESA is involved in the discussions*

h. Food contact Graphite – working with the EDW

i. EPA Clean Water – Rescinding regulations?

j. PFOA Contamination – No current activity

k. Other

VII. Publications

a. Sealing Sense Articles

- i. Updated list – include valve packing friction*

b. KCI Pump Engineer

- i. Just published article on pump packing friction*

c. Other

VIII. Outreach Projects

- a. *VMA – Next year emission focus – Training cooperation*
 - b. *A&M Pump Show - Nothing this year for packing this year – Mechanical Seal short course*
 - c. *HI – Guide books commercial buildings – Lunch and learn stuffing box design presentation to be ready by end of summer – Slurry sealing webinar*
 - d. *Emission Summit – Call for Abstracts – Training?*
 - e. *Valve World US – Just concluded*
 - f. *Industrial Valve Summit - in Italy good papers given*
 - g. *API – SWG Test standard potential presentation at Valve Tank Piping meeting*
 - h. *Power Gen – Not very end user focus, FLUMG, EPRI?*
 - i. *Indian Sealing Association contact – keep in contact*
 - j. *Chinese Sealing Association contact – Question about their interest in cooperating -*
 - k. *World Tribology Conference – Cut-back so no FSA presence*
 - l. *STLE – Possibility of pump friction packing paper*
 - m. *VDI Networking Pump Systems Conference in Germany emphasis on testing of pump packing friction study*
 - n. *Fluor/Canada – Ron talked to Gobind – Lunch and learn 2 hour training session – Ron, Jim and Phil to follow-up*
- IX. Technical Meeting Next year with Pump and Emission Summit**
- X. New Business**
- XI. Next Session**
- a. *August 1st, 9:00 AM EDT*
- XII. Adjourn**