

**COMPRESSION PACKING  
WORKING GROUP  
Go-to-Meeting Conference  
MARCH 18, 2019**

**Present:**

Jamie Cetrone – John Crane  
Antonio Morales - Empak Spirotallic Mexicana SA DE CV  
Ron Frisard - A.W. Chesterton  
Kathy Johnson – John Crane  
Larry Sheffield – Inertech  
Chris Boss - Garlock Sealing Technologies  
Mark Savage – John Crane  
Mike Kupin – Garlock Sealing Technologies  
Mandy Wittenberg – W.L. Gore  
Jim Drago - Garlock Sealing Technologies  
Greg Cole – A.W. Chesterton  
David Edwin Scott – ESA  
Greg Raty – Slade  
Martin Coulthard – James Walker  
Henri Azibert - FSA (603) 475-4335

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**Absent:**

María García Gorrichategui - Montero Fye S.A.  
Ralf Vogel – Burgmann Packing  
Hans Dekker – A.W. Chesterton  
Linda Finnegan – New England Braiding  
David Mitchell – ESA  
John Morton – John Crane  
Patricia Pichardo – Spirotallic Mexicana SA DE CV  
Jakub Marczyk – James Walker  
Lee Gillette – WL Gore  
Mark Neal – ESA  
Thomas Jessup – EGC  
Michael Hamoy – John Crane  
Lewis Geoffrey – Dupont  
Francesca Torriani - General Packing  
Rob Garlock – EGC  
Laverne Fernandes - Garlock Sealing Technologies  
Arthur Hernandez – Nippon Pillar  
Sylvia Pan – HP Materials Solution  
Geoffrey Kret – Total

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**I. Approval of Agenda**

**a. New Team Members**

**i. Jamie and Kathy – Henri to make sure they get access to SharePoint**

**D. Election of Vice Chair**

- i. Kathy Johnson – Vote to have Kathy to be vice-chair to be confirmed during in person meeting in Chicago**

**II. Handbook**

**a. Release**

- i. Posted on FSA website**
- ii. ESA website has 4<sup>th</sup> Edition downloadable different from previous policy of read on line only – Read on line method under review currently (cost considerations) – Print on Demand no longer used**
- iii. Standards spreadsheet is also on the website – Mike Kupin, part of API task force, updated spreadsheet on SharePoint, Ron to make pdf and then work with Hope to have posted on the website**

**III. Joint FSA ESA Projects-**

**a. LCC Power consumption formula**

- i. Cost of effluent was high and reduced to \$62.00 per 1000 gallons – New packing flushing arrangements: flushing between packing (low volume), flow through flushing (high volume), flushing with bushing (high volume)**
- ii. Meeting March 11, 2019 with Mark Savage, Ron Frisard, and Henri to go over spreadsheet. New flushing arrangements readied and default values agreed upon – Mark Savage to update spreadsheet – choice of flush arrangement done- link to the default values is next to be done – next meeting April 15, 2019, 2:00 PM EDT**
- iii. Henri to present the LCC updates at the ESA AGM**
- iv. Change of the LCC platform to get on the KnowledgeBase – No Schedule yet but John Crane has committed support**

**b. Valve Packing Study**

- i. CETIM prepared Spreadsheet – Need to make it a bit more user friendly – Ralf communicating with Hubert – perhaps at the next general meeting in May**
- ii. More tests with different variables – 2 graphite ring references with their associated installation procedures; 4 pressure levels: 20, 40, 60 & to 80 bar; 2 stem movement types: rotation & translation; 2 test for each configuration – Still need variation on installation procedure – question on working on more tests such as different types of packing – Presentation from Valve World 2018 was distributed and posted on SharePoint – Waiting for update at the ESA AGM**

**c. ESA – PD 002 (BS 4371)**

- i. Draft number 5 completed - gaps concerning quality of packing – there is good information for graphite and carbon —Specifics on quality packing for Vegetable fiber, aramid, Novoloid, etc. – Need to differentiate between poor quality packing and high-performance ones - Anything on PTFE quality would be most useful – Meeting Wednesday January 30, 2019 with ESA members that are PTFE suppliers – low attendance but some progress – most important characteristic is creep resistance - test to be added to standard information - CETIM can help on test method to be added to the standard – other teleconference April 3<sup>rd</sup> 1:00 PM CET – if anyone wants to join send note to David**

**d. K Factor study/ASTM WK 56884**

- i. Ron to follow up such as possible joint study or webinar on anti-seize for packing and gaskets – Need to find out who is on the committee - Ron got a hold of Tom Blake (possibility of joining FSA) – Ongoing - question of wet vs. dry anti-seize – Much information is related to flanges and gaskets where gland loads are significant but also for valve packing**

**IV. Education projects.**

**a. FSA Webinar(s)**

- i. *Packing basic training with KCI during valve world Americas – Ron organizing – Conference call with KCI about a week ago – make sure there is promotion – two 3-hour sessions, one on packing one on gasket are planned – Anyone want to co-present? Looking for Volunteers*
  - ii. *Series on bolt lubrication - In progress envision two parts, K factors, trying to get Jet Lube involved - Ron to follow up – possibly schedule for the second quarter – Could be done in conjunction with flanges and gaskets*
  - iii. *Use new handbook to base webinars – Idea to do a series now that the manual is released – do a three- or four-part series, and also record them – Volunteers to be a co-host –Greg Cole – Chris Boss – Ron to organize – To bring up at Technical meeting*
  - iv. *Jim Drago submitted version of Safety article/training to PVP as a Technical Presentation, (not a paper) – Not accepted yet and specifically noted this is not entirely original material – waiting for decision – Ron shared info on valve bolting failure – Automated response that it has been accepted but question submitted and no response concerning just presentation vs. paper*
- b. ESA Packing training material**
- i. *ESA working on the animations and voice over*
  - ii. *Delivery/platform method on new website with new software tools - conversion in process –First two sections are done and scheduled to be live - platform is there and can also be used for other projects with more possibilities that just using PowerPoint, it is a free program to enroll in – Still working on some technical issues on how to direct to other videos at the end of a section (consultant working on it) - When active make sure there is link from FSA website – plan to send link to 2 or three members to check out and then after comments are received, put it live on the website*
  - iii. *Need additional pictures: Expansion joint photo badly needed by David – Chris found some pictures but copyright could be an issue as they were taken off a company website – Chris to send to David – Noted that they were some images in the US Bellows Inc. website*
- c. KnowledgeBase**
- i. *Sealing Sense Articles Repository Active. Linda volunteered to be responsible for Packing articles.*
  - ii. *Folder set up on SharePoint to gather material – Topic list started by Linda – discussed format at the Annual Meeting – Could use Word documents or PowerPoint Presentations – PowerPoint presentations can be used for webinars, so they have dual purpose and use*
  - iii. *Current plan is to break down the handbook material into chapters just using pdf and can also add PowerPoints used in webinars – Ron to start breaking down the chapters in pdf – in progress and Linda can review – Next step will be to set up repository when documents are ready to be uploaded – To be organized during the technical meeting in a working session*
  - iv. *ESA Participation – Right now focusing on own website and training material and including existing publications*
- V. Standards & Regulations**
- a. *Spreadsheet updates – Division Chair responsibility to update – use notes to check for updates – Mike Kupin did update spreadsheet in SharePoint for API standards and Ron to send pdf to Hope*
  - b. *API 622 – 640 - 641- 602 - 623 – 621 - 608*

- i. **622 – 1/8" cross section – 100 PPM no adjustments – 624 refers to 622 - 3rd edition – published Oct 2018 – Question as to whether API 602 which is normally 1/8" cross section requires new testing – Section 4.3.2.2 extension cover 1/4" and above**
- ii. **API 621 valve reconditioning 4th edition published Oct 2018**
- iii. **API 623 Steel Globe valves - extension till 2020 - 1st ballot 131 comments – finalizing 2d ballot document**
- iv. **API 624 testing of rising stem valves for fugitive emissions – First edition published Feb 2014 - Extension till Feb 2021 – TF meeting**
  - **Add packing stress same as what was used in 622 for what valves are covered under the qualification extension, in addition to same type of packing (Section 11.1) - Need performance requirement of latest edition of API 622 for extension of qualification (100 ppm no adjustment)**
  - **When specifying packing other than 622 for elevated temperatures (such as mica based packing), end user may specify alternative packing not tested per 622**
  - **Discussion about API 624 compliance limited to test temperature – testing at 750F as the next step. For 1000F would need helium - Other option: for temperatures beyond API 622 end user may specify packing or manufacturer to ensure that temperature is within the limit of API 624**
  - **Options for going to higher temperature – what would the next level after 500 F? would it be 700F? Possibility to heat up with nitrogen to temp, cool down and then introduce methane to test leakage. With this system could even go to 1000F – Matt Wasielewsky working on test procedure expected to be presented at the May meeting**
- v. **API 641 Type testing of quarter turn valves for fugitive emissions 1st edition out 10/2016**
- vi. **6FA Fire Test committee – Using API 607 (Valve test) for packing should be good 589 has not been reissued and is not recognized by API – Only 607 is current - API 607 Fire test for 1/4 turn valves and valves equipped with nonmetallic seats – 6th edition published 9/2016**
- vii. **API 600 Gate valves 13th edition published 2015 - Added nickel alloy and other high alloy - Max clearance requirement between wedge/disk guides and body guides – Concern also about valves capable of operating at 1000F but API 624 and 622 limited testing at 500F – (problem with PTFE)**
- c. **ISO 15848 – no activity – TaLuft modified fall 2018 and point to 15848 (draft issued last June) – TaLuft certificate existing will still be valid but new testing will be to 15848 – some extension for temperatures and pressure classes – Keep monitoring - expected release of new TaLuft sometime this year – At annual meeting some of the members are on the committees and can give updates. There is also a transition period before the new legislation applies**
- d. **EN 16752 – no activity**
- e. **Emission Regulation**
  - i. **Mexico issued draft of methane and hydrocarbon rule – Comments prepared for FSA response – translated and filed with the Mexican Government – Waiting for release – Antonio to monitor and waiting for decision from new government**
  - ii. **EPA Rule on Methane and VOCs still in effect**
    1. **Voluntary action plans**
  - iii. **States action monitoring**

1. *Pennsylvania (permit rule went into effect August 6, 2016), Colorado, Wyoming – Ohio EPA DAPC Rulemaking - New Oil & Gas Industry Rules - Requesting Stakeholder Input*
  2. *California Governor Jerry Brown signed new renewable energy mandate that by 2025, 50% of all power will be derived from renewable sources, and 60% by 2030.*
- iv. *Canada rule –regulations respecting reduction in the release of Methane and Certain volatile Organic Compounds released April 26, 2018 - Implementation is 2020 – Alberta proposed regulation - comments submitted on 5/27/18 – more stringent in some areas and less in others and try to meet the overall requirements – British Columbia has released their regulation*
  - v. *IED (Industrial Emissions Directive) BATIS (Best Available Techniques Information System) and Brefs – Upgrade the ESA document on Sealing with final draft just needing expansion joints section images for release – Henri to check with David Mitchell if some of the FSA images would be useful*
- f. Infrastructure legislation**
- g. Trade**
- i. *Environmental Goods no progress*
  - ii. *Tariffs trade wars – In effect with Europe and Canada (steel and aluminum) – Deal with Mexico and Canada needs ratification – Confusion reigns – Meeting between US and China going on*
  - iii. *CEO FSA lunch asked that Government Affairs committee look into it due to added costs - FSA President sending letter to Wilbur Ross, United States Secretary of Commerce. Letters to be drafted for Senator Ron Johnson action on reversing tariffs – Need example of how it hurts business – use template - Hope sent Government Affairs committee initiative documents to members*
  - iv. *Brexit - Stalemate – No deal currently – possibility to go for Authorised Economic Operator (AEO) trusted trader status – Possible extension? Vote this week on existing proposal - no deal is off the table - most likely work on extension - keep monitoring – Major issues on marking of origin, Certified audit bodies, and the border Ireland/Northern Ireland*
- i. EU Drinking water standards – Drinking Water Directive (DWD) in Europe. European Parliament has published report in favor of one uniform test – EDW very active and published a paper questioning the new approach – 10-member states report also issued saying the same thing in favor of following the EDW proposal. Encouraging but no formal decision yet – keep monitoring – Current timeline:**
1. *26 June 2019: Council reaches an agreement on a common position on the DWD*
  2. *October 2019: The new European Parliament (elected in May 2019) will be ready for negotiations with the Council. Its position should be based on the current position of the European Parliament.*
  3. *October – March/April 2020: Negotiations between the European Parliament and the Council (trilogues) to reach an agreement on a common text*
  4. *April 2020: Final adoption of the DWD*
- h. Food contact Graphite – EC 1935/2004: Follow German regulation and declare compliance from ESA - Schunk Conducting migration test with also MAMAT involved – On-going activity for testing**

*I. EPA Clean water – NO action*

**VI. Publications**

**a. Sealing Sense Articles**

- i. 622 Standard Update- (Thom Jessup) due 3/1/19 – Sent to editors*
- ii. Need topics and volunteers for 7/1/19 and 11/1/19 – Possibility Flushing arrangements following the LCC flushing plans – Article on LCC updates - **Chris Boss***
- iii. Valve packing study? – Other? – need volunteers*
- iv. Fire Test Standards- Matt Wasielewski - End of Year once 6FA progresses?*
- v. **Review at the Technical Meeting***

**b. Other**

- i. Pump Engineer*
- ii. Chemical Engineering*
- iii. BIC*
- iv. Flow control*
- v. KCI Valve World*

**VII. Outreach Projects**

- a. Fluor/Canada – Not active*
- b. VMA – Valve Industry Knowledge Forum, April 9-11, 2019*
- c. ASME – PVP? Potential paper? One presentation from Jim*
- d. A&M Pump Show – paper review – very full program this year*
- e. HI*
  - i. Guide books recommendation – Commercial Buildings, packing write-up – Slurry Webinar – Condition Monitoring for rotary pumps – Engineering Data Book – Variable Speed Drive Webinar – MS handbook update and revise packing power consumption in LCC section*
  - ii. Co-location for the Fall of 2019 in Pittsburg PA – Need Lunch and Learn for the meeting, possibly gaskets but also another topic needed – Possibly LCC updates for various packing scenarios -*
- f. Valve World America 2019 – Ron reached out for training opportunities – Abstract submissions <https://www.valveworldexpoamericas.com/call-for-presentations>*
- g. Industrial Valve Summit 22/23 May 2019 in Bergamo – David invited to Advisory Board – Limited presentations new format – papers to be published – limited number presented in the plenary session – <https://www.industrialvalvesummit.com/wp-content/uploads/2018/09/Call-For-Papers-4-sett-2018-1.pdf> - ESA Elastomer Division submitted an abstract and it was accepted – Paper on TaLuft changes – not a lot of abstracts - deadline is past – program to be decided upon*
- h. API*
  - i. API 682 regular conference calls*
  - ii. Spring Refining Meeting – May 06, May 09, 2019, Grand Hyatt San Antonio, San Antonio, Texas - Issue with higher temperature testing and safety with methane – Mike Kupin and Greg Cole scheduled to attend and report*
- i. Power Gen – no plan*
- j. Chinese Packing and Gasket Association – Keep channels open*
- k. Indian Sealing Association – Monitor*
- l. STLE –*
- m. BHRG David to monitor*

- n. FLMUG – MUGAUG – EPRI – meeting second week of January – feedback – FLMUG valve packing installation as a problem foregoing consolidation of packing – presentations distributed*
- o. Valve World – CETIM Presentation distributed and posted*

**VIII. New Business**

*a. Membership*

- i. Daikin – Ron to contact*
- ii. Steve Boss of SGL indicated intention to rejoin at beginning of year. Need to follow up – High temp valve testing is of interest – Should extend invitation to the Spring technical meeting*
- iii. Robco – Ron sent emails for contact*

**IX. Next Session**

- a. April 15, 2019, 9:00 AM EDT – change LCC meeting to 2:00 PM EDT*
- b. Technical Meeting, Thursday May 2, 2019 - Chicago*

**X. Adjourn**

***hva 03/18/2019***