



**COMPRESSION PACKING
WORKING GROUP
Go-to-Meeting Conference
April 3, 2018**

Present:

Lee Gillette – WL Gore
Mandy Wittenberg – W.L Gore
Jakub Marczyk – James Walker
Linda Finnegan – New England Braiding
Ron Frisard - A.W. Chesterton
Antonio Morales - Empak Spirotallic
Carl Jones – WL Gore
Chris Boss - Garlock Sealing Technologies
Hans Dekker – A.W. Chesterton
Mike Kupin – Garlock Sealing Technologies
David Edwin Scott – ESA
Ralf Vogel – Burgmann Packing
Thomas Jessup – EGC
Guillermo San Martin - Empak Spirotallic
Greg Raty – Slade
Phil Mahoney – A.W. Chesterton
Henri Azibert - FSA (603) 475-4335

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Absent:

Larry Sheffield – Inertech
Michael Hamoy – John Crane
John Morton – John Crane
Jim Drago - Garlock Sealing Technologies
David Mitchell – ESA
María García Gorrichategui - Montero Fye S.A
Lewis Geoffrey – Dupont
Francesca Torriani - General Packing
Martin Coulthard – James Walker
Rob Garlock – EGC
Patricia Pichardo – Empak
Mark Neal – ESA
Laverne Fernandes - Garlock Sealing Technologies
Mark Richardson – James Walker
Arthur Hernandez – Nippon Pillar

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- I. **Approval of Agenda**
- II. **Handbook**
 - a. **Reformat of existing material**
 - b. **New Material**
 - i. **Environmental controls - Power consumption - Differences between packing and mechanical seals - Spreadsheet on standards – Stuffing box size formula**
 - c. **Review Process**
 - i. **One change made on Live Loading section**
 - ii. **Ralf and David to review European standards/ legislation/regulation**
 - iii. **Change made to the valve stuffing box dimensions notes**
 - iv. **Henri to send update document in pdf - make comments (using icon in pdf file) - Then incorporate comments and go through formal process to Technical Coordinating Committee and Voting members at FSA – For ESA send for comments for approval – Also send to members and see if there are any comments**
- III. **Joint FSA ESA Projects-**
 - a. **Pump Packing Friction Study**
 - i. **Question about money due to CETIM for latest tests on carbon packing – Waiting for response**
 - b. **LCC**
 - i. **Ryan Neris from Ergoseal working on revising the spreadsheet program – Double checking results and formulas – then needs to be posted on the website**
 - ii. **Change of the LCC platform – No Schedule yet but John Crane has committed support**
 - c. **Valve Packing Study**
 - i. **Presentation from CETIM and Spreadsheet – make it a bit more user friendly – Need to put comments together to relate back to Hubert**
 - ii. **Still under consideration: Two more tests with different variables – Two different Packings and two different installation methods - More information by the annual meeting 15 to 17 of May**
 - d. **ESA – PD 002 (BS 4371) Meeting March 12, 2018 at the Radisson Hotel at the Manchester Airport – David Edwin Scott to incorporate comments into next draft – Made progress discussed different points and got comments – More work to be done – Need test methods for all the aspects that are specified such as minimum or maximum contents or other attributes – Also for attributes concerning quality yarns must specify how it can be tested – Need responses and David will send out update in the next few weeks - Should be joint ESA FSA standard**
- IV. **Education projects.**
 - a. **FSA Webinar(s) Plan is one per quarter goal – Series on bolt lubrication Phil working with Trish Stanislas – Will write article – More update at the Technical Meeting in Atlanta – (Also working on emissions from anti-seize in conjunction with Gasket Testing Standard)**

- b. *Use new manual to base webinar material – Review during Technical meeting in Atlanta*
- c. *Emission Summit/Pump summit Training – Presentation material on SharePoint – Phil working with the staff – Scheduled for June 25th – Courses to offer Packing and gaskets same as last year – Expansion joints and mechanical seals for two more classes – Next week or two needs to be firmed up - Mike Kupin will be at Valve world in June also and can help out – Ron to contact Jim Drago and Chett Norton – Talk to Miquel about promotion – Phil to check with Lloyd Aanonsen and Jason Ferris*
- d. *ESA Packing training material*
 - i. *ESA working on the animations and voice over – Plan to have something for the Annual May meeting*
 - ii. *Delivery/platform method in question – Talk to web developers– Speed of viewing and cost of development – Emphasis on web site content – Cost associated need to be worked into budget – Anticipate link from website, but needs to be on another platform*
- e. *KnowledgeBase*
 - i. *Sealing Sense Articles Repository –Mechanical seal articles almost complete – Will need volunteers from the Packing group to enter the packing sealing sense data into the system – Ron and Linda will help – Henri to show how it gets done at the Atlanta meeting*
 - ii. *Folder set up on SharePoint to gather material*
 - iii. *ESA Participation*

V. **Standards & Regulations**

- a. *API 622 – 640 - 641- 602 - 623 – 621 - 608*
 - i. *622 – 1/8” cross section – 100 PPM no adjustments – 624 defers to 622 – In the 3rd edition of 622, if multiple sites manufacture a product, it needs to have all products from different sites tested*
 - ii. *621 reconditioning was up for ballot – Did not pass - resolution required – Task force changes*
 - iii. *641 Clarification requested by Phil – Definition about emission measuring equipment and capability*
 - iv. *608 to require 641 testing*
 - v. *624 – Testing for same product not required from every manufacturing site – Draft circulating requiring 622 testing 3rd edition – all three tests required: emission, corrosion, chemical – Moving test temp from 500 to 600⁰F –need resolution concerning acceptability of previous testing - Current discussion on effect of changes such as location of manufacture, adding or removing live loading, changing bushing, etc. – Text to specify packing must pass 622 3rd edition and 2d edition results valid if less than 100 PPM with no retorque – If valve was qualified 624 with 1/8 packing does it have to have 622 testing? Ballot up next week – Will wait for results and should have more info at the Refining meeting*

- b. *ISO 15848 – no activity*
- c. *EN 16752 – no activity*
- d. **Emission Regulation**
 - i. *EPA Rule on Methane still in effect and Congress reaffirmed – Also Court action to keep Regulation in place*
 - ii. *States action monitoring: Pennsylvania, California, Colorado, Wyoming*
 - iii. *Canada rule – Expected to be issued at the Global Methane forum in Toronto: April 15 to 18, 2018*
 - iv. *Alberta issuing regulations – Go primarily after high leakers*
 - v. *Mexico drafting methane rule now. Draft rule by mid-May to be published before new Administration comes in in December – Make sure to get **Antonio** and **Guillermo** involved*
- e. *IED (Industrial Emissions Directive) BATIS (Best Available Techniques Information System) and Brefs – Upgrade the ESA FSA document on Sealing Technology - feedback received from gasket and packing need more on Mechanical Seals but making progress and also the elastomeric division working on a document – Meeting in April with Expansion Joints as well - Communicate with FSA technical Directors to review/add to existing documents – In Packing there is some material about LDAR –input needed from FSA as it is more prevalent in North America – More at the AGM*
- f. *WTO EGA no update*
- g. *EU Drinking water standards – EDW – European Commission has issued new DWD – Deleted Article 10 of Directive – Article 10 implied mutual recognition of tests (UK, France Germany, Netherland) – Construction Products added for contact with drinking water – target for harmonized test for mid-2019 – Still confusion on materials or products – ESA might propose standard*
- h. *Food contact Graphite – EC 1935/2004: Follow German regulation and declare compliance from ESA - Annex to be updated as carbon graphite is missing – Migration test for complete assembly – no idea on how this applies to Compression Packing or Gaskets*
- i. *EPA Clean Water – No action*
- j. *PFOA Contamination – No action*
- k. **Other**
 - i. *Phil has been working with the CMES – not much recently*

VI. Publications

- a. **Sealing Sense Articles**
 - i. *Bolting and Lubricants (Trish/Phil)*
 - ii. *Other -*
- b. **Other**
 - i. *Pump Engineer*
 - ii. *Chemical Engineering*

- iii. BIC
- iv. Flow control

VII. Outreach Projects

- a. Fluor/Canada – Not active
- b. VMA – Technical meeting 2018 – April 11 - 13 in Georgia.
<http://www.vma.org/?page=KnowledgeForum> - Thom will be in attendance and can give report
- c. A&M Pump Show –
- d. HI – Guide books recommendation – Mechanical Seal handbook update - Commercial Buildings, packing write-up – Slurry Webinar – Condition Monitoring for rotary pumps – Engineering Data Book – Variable Speed Drive Webinar
- e. Emission Summit – June 2018 – <http://americas.fugitive-emissions-summit.com/> - Training on June 25
- f. KCI Pump Summit – next June 2018 – Henri to do keynote session on Standards – training classes for Mechanical Seals, and Expansion Joints
- g. Industrial Valve Summit 22/23 May 2019 in Bergamo
- h. API – 682 new Chair and vice chair – Meeting restarted – Category 4 High pressure to 100 bar
- i. Power Gen – no plans
- j. Chinese Packing and Gasket Association – Keep channels open - potential ESA annual meeting invite
- k. Indian Sealing Association – Monitor
- l. STLE – 2018 Annual Meeting - May 20-24, 2018 Minneapolis Convention Center - 2018 Tribology Frontiers Conference, October 28-31, 2018 at the Drake Hotel in Chicago
- m. BHRG – 24th Fluid Sealing Conference – Small event very academically oriented – not much on packing except for James Walker on emissions
- n. ISA (International Society of Automation) doing an LDAR fugitive emission symposium in Galveston TX - no feedback
- o. 4C Health, Safety, and Environmental Conference, SAN ANTONIO, TEXAS / APR. 3-5, 2018 - <https://www.4cconference.com/>
- p. Pump Summit with Valve World also taking place 27-29 of November 2018 in Dusseldorf – Abstract 27 of May – Friction project final formulation and LCC a possibility – emphasis on friction with mechanical seals and flush systems comparison – Also EDF PPrime sealing workshop with possibly more emphasis on testing – Discuss at Annual Meeting

VIII. New Business

IX. Next Session

- a. Technical Meeting in Atlanta April 26, 2018 9:00 AM EDT

X. Adjourn