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**COMPRESSION PACKING**

**WORKING GROUP**

**Go-to-Meeting Conference**

 ***July 9, 2018***

**Present**:

María García Gorrichategui - Montero Fye S.A laboratorio@monterofye.com

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Carlos Quintero – John Crane

Henri Azibert - FSA (603) 475-4335 henri@fluidsealing.com

**Absent:**

Hans Dekker – A.W. Chesterton hans.dekker@chesterton.com

Ralf Vogel – Burgmann Packing ralf.vogel@burgmannpackings.ie

Antonio Morales - Empak Spirotallic Mexicana SA DE CV technology@empak.com.mx

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1. ***Approval of Agenda***
2. ***Handbook***
	1. ***Review Process***
		1. ***Sent to voting members and on SharePoint for all to review – No Negative votes***
		2. ***One comment received from Juan Meyer (upper left picture of a trailer loaded with logs not environmentally positive) – Do we need Industry pictures? Other cover to modernize? How about just removing the pictures – We live in the industrial world – just get images - Larry has many images he will send - Do two covers, one with revised image and one without industry images. Henri to send for next meeting***
		3. ***Sent to David and Mark for ESA review process – Send to the Packing Division – Only one comment received so far. Ralf will gather and send back to Henri***
3. ***Joint FSA ESA Projects-***
	1. ***Pump Packing Friction Study***
		1. ***Project Complete***
	2. ***LCC***
		1. ***Double checking results and formulas - all to use and check – If you find anything send to Henri***
		2. ***Change of the LCC platform – No Schedule yet but John Crane has committed support***
	3. ***Valve Packing Study***
		1. ***CETIM prepared Spreadsheet – make it a bit more user friendly***
		2. ***Still under consideration: Two more tests with different variables – Two different Packings and two different installation methods***
	4. ***ESA – PD 002 (BS 4371)***
		1. ***Test methods for aspects that are specified such as minimum or maximum contents or other attributes to be listed - comments needed – Not much feedback, another draft in process – gaps concerning quality of packing – there is good information for graphite and carbon – Need for other material – PTFE need info on what is important for quality - Carl will follow up – We can list the products but need more specific on how to make quality packing for Vegetable fiber, aramid Novoloid, etc. – Specification for fibers can change depending on what is purchased –Need to differentiate between poor quality packing and high-performance ones – Not a lot of enthusiasm about gathering the information – Working with vendors on what can be produced – Sometimes the specification can hinder performance (for example asking for nuclear grade graphite in emissions service) – It may not apply to everything but at least to some – Could provide information as to where the various fibers can be used – Question as to whether the standard is needed at all – David to finish draft which will need to be reviewed and then there will have to be decision as to whether more work is required.***
		2. ***K Factor study/ASTM WK 56884– Include gasket group – Will have to wait for Phil***
		3. ***Ultra-high temperature testing – Ron to follow up with Phil***
4. ***Education projects.***
	1. ***FSA Webinar(s) Series on bolt lubrication Phil working with Ron and Trish Stanislas – In progress envision two parts, K factors, trying to get Jet Lube involved - Ron to follow up***
	2. ***Use new handbook to base webinars***
	3. ***Emission Summit/Pump summit Training – Lack of attendance – Did not connect early enough***
	4. ***ESA Packing training material***
		1. ***ESA working on the animations and voice over***
		2. ***Delivery/platform method – Getting new website and new software tools – But issue of delivery not yet resolved - Still need better ways to deliver the training material – One suggestion is to make it into a webinar – Working on mechanics of delivery***
	5. ***KnowledgeBase***
		1. ***Sealing Sense Articles Repository –Mechanical seal articles almost complete –Volunteers from the Packing group to enter data into the system Ron and Linda –Follow up with John Galla for administrative access - Method to enter the material, possibly set up separate meeting – July 24 1:00 PM EDT – Henri to set up***
		2. ***Folder set up on SharePoint to gather material – Start breaking down the handbook – Topic list started – Linda to take a stab – Henri to send Piping and Ducting Topics list to Linda for reference***
		3. ***ESA Participation – Right now focusing on own website***
5. ***Standards & Regulations***
	1. ***API 622 – 640 - 641- 602 - 623 – 621 - 608***
		1. ***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 - Waiting on release (it was promised earlier after the Spring Refining Meeting)***
		2. ***621 reconditioning was up for ballot – Reaffirmed with changes and modifications***
		3. ***641 Clarification***
		4. ***608 to require 641 testing***
		5. ***624 – Testing for same product not required from every manufacturing site – resolution concerning acceptability of previous testing - Text to specify packing must pass 622 3rd edition and 2d edition results valid if less than 100 PPM with no retorque – Ballot results still not released - Meeting during Emission Summit, but no feedback right now – New Fast track qualification process if using similar 622 packing in a different valve***
		6. ***6FA Fire Test committee – Using API 607 for packing should be good enough – Did not see any need to resurrect API 589 – Monitor at this point – 589 has not been reissued or maintained, so it is obsolete and not recognized by API – Only 607 is current***
	2. ***ISO 15848 – no activity – TaLuft being modified fall 2018 and would point to 15848 – TaLuft certificate existing will be still valid but new testing will be to 15848 – that is only for valves and not packing – (discussed at ESA gasket meeting – discussion on temperature classes)***
	3. ***EN 16752 – no activity***
	4. ***Emission Regulation***
		1. ***EPA Rule on Methane still in effect and Congress reaffirmed – Also Court action to keep Regulations in place – Recent resignation of Head of EPA leaves direction of Agency in question***
		2. ***States action monitoring: Pennsylvania (permit rule), California, Colorado, Wyoming***
		3. ***Canada rule –issued on May 9, 2018*** [***http://laws-lois.justice.gc.ca/PDF/SOR-2018-66.pdf***](http://laws-lois.justice.gc.ca/PDF/SOR-2018-66.pdf) ***- Focus on LDAR program starting page 28***
		4. ***Alberta proposed regulation*** [***http://www.aer.ca/documents/directives/Directive060\_Draft.pdf***](http://www.aer.ca/documents/directives/Directive060_Draft.pdf) ***- comments submitted on May 28, 2018 – Fugitive leaks exception at 10,000 ppmv, argued for 500 ppmv***
		5. ***Mexico*** ***drafting methane rule now – Antonio and Guillermo involved – No news - Draft rule probably after the president elect comes into office***
	5. ***IED (Industrial Emissions Directive) BATIS (Best Available Techniques Information System) and Brefs – SEALING DEVICES REDUCTION OF FUGITIVE EMISSIONS DOCUMENT – Comments sent by Henri – Some updating would be very useful – for example pie chart that 60% of emissions come from valves – still probably fairly accurate but overall level has come way down - If anyone has newer info please send it***
	6. ***WTO EGA***
		1. ***Tariff trade wars – Problems on the horizon – new list of included HS codes issued on June 15***
	7. ***EU Drinking water standards – EDW – Issue with relying on the Construction product Regulation which does not address pumps or seals***
	8. ***Food contact Graphite – EC 1935/2004: Follow German regulation and declare compliance from ESA - Shunk Conducting migration test***
	9. ***EPA Clean Water – No action***
	10. ***PFOA Contamination***
		1. ***EPA label PFAS 'hazardous' (polyfluoroalkyl substances) at National Leadership Summit and effort to designate PFOA and PFOS as “hazardous substances”.***
		2. ***2020 regulation will list this as an SVHC with an acceptable threshold of 20ppb:*** [***http://www.sgs.com/en/news/2017/06/safeguards-09717-eu-regulates-pfoa-and-related-substances-under-reach***](http://www.sgs.com/en/news/2017/06/safeguards-09717-eu-regulates-pfoa-and-related-substances-under-reach) ***.***
		3. ***White paper on FSA and ESA packing not containing PFOA and PFOS, at least below certain levels that would need to be defined – a threshold would need to be established – There are some REACH regulations with limits of 25 ppb – David will check for the regulation***
	11. ***Other***
6. ***Publications***
	1. ***Sealing Sense Articles***
		1. ***Article on Packing Failure Modes? – Chris Boss has article overdue right now***
		2. ***Fire Test Standards- Matt Wasielewski - End of Year once 6FA progresses.***
		3. ***624 Standard Update- Guillermo (Empak)***
		4. ***Compression Packing Handbook release. Carl***
	2. ***Other***
		1. ***Pump Engineer – Henri Interview with Editor***
		2. ***Chemical Engineering***
		3. ***BIC***
		4. ***Flow control***
		5. ***KCI Valve World***
7. ***Outreach Projects***
	1. ***Fluor/Canada – Not active – Met Gobind at Emission Summit – He will let us know if there is need for training sessions***
	2. ***VMA***
	3. ***A&M Pump Show***
	4. ***HI***
		1. ***Technical Meeting held in June - 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 – Lunch and Learn variable speed drive on seals (primarily mechanical seals)***
		2. ***Potential co-location for the Fall of 2019***
	5. ***Emission Summit – Feedback – Nothing much new besides drone emission monitoring with cameras – Conferences getting saturated with 4C and ISA***
	6. ***KCI Pump Summit –keynote session on Standards – Relatively low attendance – classes cancelled – Pump summit was small***
	7. ***Industrial Valve Summit 22/23 May 2019 in Bergamo – David invited to Advisory Board***
	8. ***API***
		1. ***682 new Chair and vice chair – Meeting restarted – Category 4? High pressure to 100 bar? Annex? Lack of progress***
		2. ***Fall Refining Meeting – Monitor activity – Possible Gasket testing standard presentation – Issue with higher temperature and safety with methane***
	9. ***Power Gen – no plan***
	10. ***Chinese Packing and Gasket Association – Keep channels open***
	11. ***Indian Sealing Association – Monitor***
	12. ***STLE – Henri Interview for TLT magazine primarily on mechanical seals***
	13. ***BHRG David to monitor***
	14. ***Pump Summit with Valve World also taking place 27-29 of November 2018 in Dusseldorf – Friction project final formulation and LCC abstract submitted***
	15. ***EDF PPrime sealing workshop***
	16. ***Poland Seal Conference good material***
8. ***New Business***
9. ***Next Session***
	* 1. ***Monday August 6, 9:00AM EDT***
10. ***Adjourn***

***hva 07/09/18***