



**MINUTES
GASKET WORKING GROUP
MEETING**

Dates: January 9, 2018

Time: 9:00 AM – 10:30 AM EST

Vehicle: Go-to-Meeting

Present:

Antonio Morales – Empak
Martin Coulthard – James Walker
Stephen Woolfenden – Eriks Group NV
Daniel Bisset – W.L. Gore
Matt Wasielewski – Yarmouth Research
Thomas Jessup – EGC
David Mitchell - ESA
Greg Raty – Slade
Chett Norton – Triangle Fluid
Ron Frisard – A.W. Chesterton
Francesca Torriani - General Packing
Jim Drago – Garlock
Guillermo San Martin - Empak
Henri Azibert - FSA

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Absent:

María García Gorrichategui - Montero Fye S.A
Constant Olivier – Technetics
Larry Sheffield – Inertech
Lucas Norton– A.W. Chesterton
Mark Richardson – James Walker
Laverne Fernandes – Garlock
Mark Neal
Patricia Pichardo – Empak
Lee Gillette – W.L. Gore
Charlene Jones – W.L. Gore
Philippe Pottier - Siem
Chiara Sozzi – General Packing
Carl Jones – W.L. Gore
Frank Herkert - Amtec
Randy Wacker – InnerTech
Reiner Zeuss - SGL Group
Barry Anderson – Technetics
Juan Meyer - Empak
Phil Mahoney – A.W. Chesterton

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1) Approval of Agenda

2) SWG Testing Standard

• Round Robin Progress

○ Preliminary test results or observations

- *Empak – Garlock, probable helium build-up in the oven test set-up – Yarmouth – conducted second test with methane and similar results and trends but the maximum was about 5 ppm. Other test was also conducted with helium with results below 1 ppm results similar to Empak*
- *Issue with helium measuring methods. The machine measures leaks in cc/sec and calculate ppm on average - the sampling rate is low at 40 cc/min so there might be some issue in the calculation of flow rate to ppm - Depends on calibration based on flow rate – Matt to look at data from results and look at what the sampling flow rate to ppm conversion calculation used*
- *Concentration to mass flow rate conversion is a continual question – For those testing in helium there is a need to record sampling rate of the measuring machine as well as the ppm conversion so that the results can be effectively compared*
- *There is an EPA conversion rate that could also be compared – We will have to decide when we get all the results – 100 ppm methane leak is estimated as a .01ml/min leak rate*
- *Would be OK to set 100 ppm limit for methane and helium, but for helium the calculation need to be controlled 10^{-2} mg/sec – Sampling rate needs to be known. Conversion rate based on the sample rate will have to be specified*
- *Vacuum method could possibly be used as a comparison*
- *James Walker – The test is ready to go and is planned in next 2 to 3 weeks*
- *A.W. Chesterton – Test fixture still being manufactured scheduled to be received in a couple of weeks*
- *AMTEC – daniel will check as tests were scheduled for December*

- *Second round robin to be considered after all results are in – have an agreement on the measuring method for helium for a potential second round of testing*
- *Henri to send info on ppm to mass flow rate conversions to the group – All to review*
- *Stress applied to the gasket was determined by gasket manufacturer with the specification of 200 ft-lbs on the bolts – Chett to send targeted stress level*

3) Handbook

- *Publication on Website*
 - *Posted in ESA website – Read only*
 - *FSA Website free download*

4) KnowledgeBase

- *Breaking down of Handbook in Chapters – set up modules*
- *Sealing sense – articles will need upload – programming is basically done and ready – Mechanical seal group will start the process*
- *Other material –resource? Chett and Sylvia to work on it when ready*

5) FSA Standards

- *FSA-MG-501-02 STANDARD –*
- *Steam Test ASTM F2716*
- *M&Y Statement*
 1. *files with watermark – Chett has the files ready to send to Hope – plan for the next couple of weeks*
 2. *ASME on alternative methods to M&Y – no update*

6) Industry Standards

- *ASME B16.20 – next meeting March 2018 – SWG room temperature test*
- *API SWG testing adoption*
 - *Definite interest – wait to see more results*
 - *Other types of gasket – (semi-metallic, Kamm profile)*

7) Sealing Sense Articles

1. *Pipe strain impact on gaskets? Guillermo will be working on it*
2. *Cryogenic – Chett and Ron – (March)*
3. *Emission service? Go with Test Standard release*
4. *Anti-Seize – Trish Stanislas and Ron Frisard*
5. *Pumps and Systems invitation for February Special Section on Sealing Technology – Advertise the manual and the FSA Chett to check with Marketing resource*
6. *– Other Publications*
 - a. *BIC*
 - b. *KCI*

8) Training – Webinars

- i. Webinars to be based on the Handbook – Do video series – Ron to develop plan for 2018 – Ron to talk with Chett – Any volunteers? Topics? Gasket handbook chapters*
- ii. Valve Users Groups – Gobind on fugitive emission panel – (FLMUG)*

9) Government Affairs

i. Emission Regulation

- 1. EPA Rule on Methane still in effect*
 - 2. Canada rule beginning 2018*
 - 3. Alberta issuing regulations – Go primarily after high leakers*
 - 4. 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 from Wolfgang on Mechanical Seals – Communicate with FSA technical Directors to review/add to*
- ii. EDW – Need response from European body – Meeting of the EDW association on Dec 19 – no feedback yet*
 - iii. WTO EGA – no movement*

10) LCC –keep on radar

11) Membership

- i. Potential new members – Flexitallic, need contact with Jerry Lastovica*

12) Marketing

- i. Work with marketing committee on promotion of Handbook*
- ii. Download activity 133 since posted as of 11/20 – Daniel still needs to check with Mark Neal – waiting for feedback but will follow up*

13) Outreach Projects

- i. VMA – Technical meeting 2018 – Chett will get details*
- ii. A&M Pump Show – Booth presence – Good traffic level*
- iii. HI – Guide books recommendation - Commercial Buildings, packing write-up – Slurry Webinar – Condition Monitoring for rotary pumps – Engineering Data Book*
- iv. Emission Summit – June 2018 – <http://americas.fugitive-emissions-summit.com/> - Training opportunities for Monday or Thursday – Phil to check with André*

- v. *KCI Pump Summit – next June 2018 – Henri asked to do keynote session on Standards*
- vi. *Industrial Valve Summit 22/23 May 2019 in Bergamo*
- vii. *API – Spring refining in April*
- viii. *Power Gen*
- ix. *Chinese Packing and Gasket Association – Keep channels open*
- x. *Indian Sealing Association*
- xi. *VDI -*
- xii. *BHRG – 24th Fluid Sealing Conference – 3/7-8/2018 Manchester UK - Abstract on elastomers submitted. David on Technical committee*
- xiii. *ISA (International Society of Automation) doing an LDAR fugitive emission symposium in Galveston TX, March 6/7 2018 - <https://www.isa.org/events-conferences/>*
- xiv. *4C Health, Safety, and Environmental Conference, SAN ANTONIO, TEXAS / APR. 3-5, 2018 - <https://www.4cconference.com/>*

14) New Business

- i. *Strategic plan for the Division – Technical Meeting in April 24 to 26, (Atlanta) – Positions to appoint – importance to attend*

15) Next meeting

- i. *February 13, 2018 9:00 AM*

16) Adjournment

hva 1/9/18