

EPC MAINTENANCE & RELIABILITY SUBCOMMITTEE MEETING

Location: MS Teams
Date: November 08th, 2023

Minutes Written By: Kevin Sprague

MEMBERS ATTENDING:

Lucas Baldesberger (E2G)	Tom Garza (Knighthawk)
Mark Karrs (Becht)	Henry Trahan (Shell)
Robert Pritchett (LyondellBasell)	Dave Sankey (BASF)
Kevin Sprague (INEOS)	Aravind Subramani (Indorama)
Dane DeRouen (BASF)	Dru Roberts (TOTAL)
Tyler Cunningham (INEOS)	Whitney Reed (LACC)
James Cleavinger (CP-Chem)	

The meeting of the EPC Maintenance and Reliability Subcommittee (SC) was hosted by Kevin Sprague in MS Teams. The meeting was called to order at 10:03 AM CST.

Proceedings:

- I. Called to order, reviewed agenda, and read anti-trust statement.

- II. Reviewed minutes of the October 11th, 2023, meeting.
A motion to approve the minutes as amended was made by Dane DeRouen, with a second by Jimmy Cleavinger. The minutes were approved as read.

- III. Charge gas dryer valve reliability
 - Technical discussion was initiated by Bob Pritchett and executed by Jimmy Cleavinger
 - The results were collected and shared anonymous.
 - Results

Topic	What type of Charge gas dryer valves do you have?	Packing type?	Type of actuator?	What issues has you had?	Improvement Efforts? (if yes, what?)
End User 1	Triple-offset metal seated butterfly valves (Velan, Zwick or Vanessa)	Original OEM is graphite. Any replacements are specified as Chesterton 5300 Die Formed Graphite Sealing (3 middle rings) and Chesterton 1622 Braided Graphite Anti-Extrusion (1 top ring and 1 bottom ring) combining with valve live load bevel washers.	Rotork IWR7R Worm Gear and IQ actuator	Process leaking through valve only (we have double blocks and bleed between normal running dryer and regen dryer)	Yes, minimize or eliminate process leaking though valves.
End User 2	WKM Pow-R-Seal dual gate valves	carbon based packing rings	motor operated actuators (Limitorque and Rotork).	The majority of issues are fugitive emissions from the packing. But we also have extensive seat/gate repairs during each outage to prevent leak-by.	Improvements have been attempts at various packing materials including injectable options for the leaks. For the wear, we have added hard facing to the gate plates and seats, but these make it a challenge to pass the acceptance (API-598 leak) testing.

End User 3	older unit: Kitz gate valves (standard gate valves) newer unit: Triple-offset metal seated butterfly valves,	carbon based packing rings	Limatorque and Rotork	Minimal issues, have manual gate valve back up to allow for maintenance on motor operated valve	---
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IV. Abstracts, Papers and Presentations

- It was discussed to find a theme for the EPC24 e.g. Hot side / cold side – Abstracts shall be submitted to see if a theme can be found
- Theme for conference: ***Inspection***
- Abstracts have been loaded to our session by mistake but if we can utilize them, we are able to send out to team for review (attach to minutes)
- Tom to load abstracts now and add placeholders for missing abstracts
- Add the 1st 2 papers to our session bringing the total to 6 - **Complete**
- Pending Abstracts and End user participation
 - Keith Wade (Zecco) confirmed that the abstract will be issued regarding Refractory / Hydrogen firing; End user Co-Author pending
 - **Check with Keith on status – Keep if it is ready or will be ready (Kevin)**
 - Lucas Baldesberger will check for Damage Mechanism Study – E2G confirmed DMR as a co-author with an End user. → End user answer pending – **Push to next year 2024**
 - **Jimmy to check on status of pressure tap failures – ready and needs tweaking for EPC**
- Attached excel file was updated
 - Green rows are selected and abstracts are available
 - Yellow rows are pending (abstract / Co-Author)
 - Grey rows are pushed to next year
 - White rows are neutral and decision is still pending

V. Technical Discussion

- Surveys will be distributed by the lead person; participation is voluntary, and the results will be shared anonymous.
- **Spring Hangers support and adjustment history**
 - Suggested by Kevin Sprague, Handled by Carl Matherne
 - i. Kevin to contact Carl on status and/or send out survey
 - Poll due in November and results to be discussed in December
 - Questions will be collected until the next meeting
- **Furnace Refractory Inspection and Maintenance**
 - Suggested by Jimmy Cleavinger, Handled by **Henry Trahan**
 - Poll due in December and results to be discussed in January
 - i. What is everyone doing?
 - ii. Infrared external inspection?
- **Burner Maintenance and Inspection Practices?**
 - Suggested by Robert Pritchett, Handled by **TBD (Keith Wade proposed)**
 - Poll due in January and results to be discussed in February

VI. Next Meetings

- Interest for a in Person meeting on December 13th, 2023?
 - i. ARVOS Office could be used
 - ii. Do TEAMS and in person meeting
 - iii. Send out poll for attendance of in person meeting (Kevin to send out)
- In 2024 KnightHawk office with Lab tour possible
- Next meeting is on December 13th, 2023
 - **Important date for**_____

VII. Meeting Adjourned @10:58 am CST