

Pigging Industry News

the newsletter of the Pigging Products & Services Association

THE PRESIDENT'S LETTER

By Felix Schmidt, 3P Services, Germany

Another three special months are lying behind us. The PPSA members have always played an important role to the industry, but the current pandemic is highlighting this even more. Pigging products and services are a key to operating safe and efficient pipeline networks, which are essential infrastructure for the economy. Also driving technological developments and adapting to special circumstances is a strength of many PPSA members on which they could resort to adapt to the new demands in connection to COVID-19.

International travel and possibilities to meet clients, colleagues, partners or friends around the globe personally is still significantly affected, so we as an association need to adapt as well.

In this context, the yearly PPSA Seminar in November will be held online, to enable everyone to participate and to ensure the safety of all of us. The Virtual PPSA pigging

seminar will be held on 17th and 18th November via GoToWebinar. It comprises of nine technical presentations from pigging specialists, which further explore PPSA's chosen topic for the year 'Challenges in day-to-day Pigging'. The programme and registration are available at <https://ppsa-online.com/seminar>. Members and non-members can join the seminar free of charge. All papers and presentations will also be added to the PPSA website after the seminar.

Our new printed Directory of Members is now available and has been mailed worldwide. If anyone would like to subscribe for a free of charge annual copy they can do so at <https://ppsa-online.com/subscriptions>. The Directory also includes a number of new members, which I would like to welcome, so please have a look at it.

At this stage, the annual PPSA events prior to the PPIM conference are still planned to be held in Houston. The

NEW Members

Full

**American Pipeline Solutions,
USA**

Custom Engineering, UK

Individual

**Marcelino Guedes Gomes,
Brazil**

annual golf tournament fundraiser is scheduled for Monday 22nd February 2021. Funds raised will help young pipeline professionals. We are looking for people to make up teams and to sponsor holes. If you are interested please contact Diane for more information at diane@ppsa-online.com.

The Annual General Meeting will be held in Downtown Houston on Tuesday 23rd February at 3pm. The PPSA will soon be accepting nominations to fill vacancies for two new Directors from the Eastern Hemisphere in 2021. Please let us know if you'd like to nominate someone.

I am looking forward to seeing many of you online in November and wish good health to everybody. ●



ILI tool being removed from the pipe

Leak repair of 10 inch oil pipeline in Colombia—3X Engineering

Overview

The objective of this job, performed in May 2020 by **3X ENGINEERING (3X)** distributor in Colombia – C.P.S, was to seal online an oil leak on 10” straight line. The line had a design pressure of 250 psi, an operating maximum pressure of 150 psi and a temperature of 49 degrees Celsius. To perform the repair, it was decided to use 3X emergency leak sealing system STOPKiT[®] and then secure it as long-term solution by overwrapping the STOPKiT[®] with the composite repair REINFORCEKiT[®] 4D.

Scope of work

The repair procedure was performed following two main steps.

->STOPKiT[®] installation: emergency online leak sealing system, patented by 3X.

->REINFORCEKiT[®] 4D application according to ASME PCC-2 and 3X repair calculation: composite reinforcement system.

Below are the different stages of the procedure:

- STOPKiT[®] was installed in few minutes on the defect to stop the leak following 3X installation procedure.
- Surface preparation was then performed on both sides of the STOPKiT[®] using manual and mechanical tools to eliminate corrosion and coating residues and get a good surface roughness (superior to 60µm) to ensure a good bonding between the pipe and the composite. Hygrometric conditions were checked and the surface was cleaned and degreased with ethanol.
- F3X8 filler was used to level the surface and smooth irregular edges and geometries between the STOPKiT[®] and the pipe.
- REINFORCEKiT[®] 4D composite wrapping over the STOPKiT[®] was completed using Kevlar[®] tape impregnated with R3X5 resin -> 14 layers for a total repair length of 1500mm.
- Final layer of R3X5 resin was applied on the whole repair to ensure good wetting and improve the visual aspect. Reference plate was finally installed for traceability purpose.

Samples of filler and resin were taken during the various stages of the repair for quality control.

Results

The leak was quickly stopped thanks to the STOPKiT[®] and the composite reinforcement system application was performed successfully using REINFORCEKiT[®] 4D. The measurement of the resin hardness was made after 72 hours of curing, exceeding the minimum values required.



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Buyers' Guide & Directory of Members
2020 – 2021

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