

Flow meter fidelity proves pipeline health

RESULTS

- More than \$300,000/yr. was saved by extending the SIL-1 proof-test interval from annually to once every three years (\$4,000 per year savings, per meter)
- Meters damaged by erosion, corrosion and over-pressure were now detectable
- ROI on the purchase of Smart Meter Verification was under six months



Smart Meter Verification ensures greater safety and accuracy

APPLICATION

SIL-1 Proven-in-Use application on gas phase propylene feed with a Micro Motion® ELITE® Coriolis CMF300 flow meter. The meter was being recalibrated annually, despite providing an accurate measurement.

CUSTOMER

A major international specialty chemical manufacturer focusing on performance materials, nutrition & care resource efficiency.

CHALLENGE

Accurate propylene flow measurement is critical for safety. Two meters were averaged and there was no convenient way to identify which meter was correct. It was expensive and time-consuming to regularly remove and test both meters.

Until recently there was no easy way to verify the calibration of the meters. Technicians were exposed to process fluid during cleaning and removal, measurement-availability issues, and even possible damage to the meter as it was transported to the lab for calibration. Customers say, “you’re not likely to make it better by calibrating it”. But still, it must be verified for safety purposes.

SOLUTION

Smart Meter Verification and a new-to-world zero-verification tool are advanced diagnostic techniques that check the electronics, sensor, and, most importantly, flow tube integrity. Smart Meter Verification is recognized by third-party agencies such as IEC, ISO, EPA, and AGA/API. The meter stays operating in-line, the test takes less than two minutes, and a traceable report is generated to create an audit trail. Smart Meter Verification can be scheduled to run as often as desired and greatly boosts Measurement Confidence.

Emerson Automation Solutions Americas

7070 Winchester Circle
Boulder, Colorado USA 80301
T: +1 800 522 6277
T: +1 (303) 527 5200
www.Emerson.com

©2018 All rights reserved. The Micro Motion and Emerson logo are trademark and service marks of Emerson Electric Co. All other marks are property of their respective owners.

MICRO MOTION[™]

For more information:
www.Emerson.com/MicroMotion

