

Expro Excellence

Customer upgrades clamp-on metering



Objectives and background

- A major operator approached Expro looking for a metering solution for the produced water overboard line on a North Sea platform
- To meet OSPAR regulations the customer needed to upgrade their existing in-line metering
- The customer initially installed other flow meter types:
 - o In line mag meter
 - o Clamp on ultrasonic meter
- Both meters provided unreliable flow measurements due to the high salinity, conductivity and the presence of oil, fine sand and dissolved gas
- Expro provided a non-intrusive permanent metering solution which had a measurement accuracy of (± 2%) which was well within the customer's requirements

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- Our customer was cautious in purchasing a third meter, Expro provided an ActiveSONAR™ flow meter initially on a temporary surveillance basis. The meter was clamped onto the pipe downstream of the pipe reducer and also positioned upstream on the in-line magnetic flow meter and on the flow line control valve, non ideal flow conditioning
- There was no adverse effect on the ActiveSONARTM meter measurement due to the salinity, solids and or oil. Expro's flow studio diagnostics demonstrated the presence of entrained air from the pumps
- Subsequently the flow meter was integrated into the platform DAQ system to provide real time data

Value to the client

- Expro's ActiveSONAR™ meter provided a successful solution in providing metering where multiple flow meter types had failed previously
- The customer was satisfied with the data provided onsite during the surveillance and decided to purchase the meter
- The customer met OSPAR regulations with a measurement accuracy ± 2%



Contact

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exprogroup.com/meters