

DeepStar® Selects Veros Systems to Monitor Subsea Pumps

AUSTIN, Texas, October 28, 2020 – DeepStar, a global offshore technology development consortium focused on the advancement of offshore technologies including subsea equipment, announced today an award to Veros Systems to monitor the performance and health of subsea pumping systems.

Monitoring the mechanical and electrical health condition of seafloor/subsea pumps is challenging. These pumps operate in harsh environments with limited or prohibitively expensive monitoring options available. Veros Systems technology simplifies the way these pumps are monitored by collecting high-resolution (384,000 samples/sec) electrical waveform data topside and using physics-based algorithms to detect mechanical and/or electrical failure events. Operators use Veros insights to take actions to improve pump design and operations, thus reducing troubleshooting times, minimizing production downtime, and increasing the mean time between failures.



DeepStar is a joint industry technology development consortium with core operator members including Chevron, Equinor, ExxonMobil, JX Nippon, Occidental Petroleum, Petrobras, Shell and Total in its 2020 program year. The DeepStar program is focused on advancing technologies to meet its members' offshore business needs to deliver increased production and reserves. Veros' project *Topside Monitoring of Subsea Pump Systems* was selected from over forty competitive applications.

“DeepStar looks forward to seeing Veros deliver the Topside Monitoring of Subsea Pump Systems project to DeepStar and its members,” said Shakir Shamsy, DeepStar Director.

“We are very excited to have been selected by DeepStar to perform this subsea pump monitoring. This project will allow Veros to continue its roadmap to characterize seafloor/subsea pumping systems in terms of power system, electrical motor and mechanical pump condition, enabling engineers to extract machinery health status and take actions to improve subsea asset reliability. For nearly 20 years now, Veros has been using only electrical waveform data to gain insight into the health and performance of rotating machinery. Being allowed to work with these leaders in the Oil & Gas industry is a huge opportunity,” said Jim Dechman, President & CEO of Veros.



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Veros has been monitoring subsea ESPs with positive results since 2017. The criticality of the pumps, the costs associated with their operation and, not least, the idea of monitoring them remotely and relatively easily from the surface were huge factors in the decision to give Veros Systems a go and to collect and analyze waveform data.

Veros Systems has developed technology that Allows Motors to Talk™. Using only the electrical waveform data of the motor, Veros algorithms detect subtle changes in the operational data of both the motor and pump.

About Veros Systems

Veros Systems applies innovative data capture techniques and machine learning algorithms to electrical waveforms in industrial machines to continuously monitor rotating equipment health, gain real-time insights into operating performance and proactively predict failures. Enterprises implement Veros technology on a standalone monitoring platform, in the Cloud, or embedded within existing power distribution, metering and monitoring hardware to increase uptime, improve efficiency and optimize maintenance. For more information, visit www.verosystems.com.