SPM[®] SafeEdge[™] Automated Relief Valve Control (ARC) System

Case Study



maintenance required.



High Speed Data

acquisition and performance (5 millisecond sampling) A customer in South Texas was able to run right up at max pressure with a much smaller variance. This enabled the customer to achieve a higher pump rate all the *continued on back side*

In West Texas, one customer reduced nitrogen on-site by 50% and increased N2 valve kit life by 150%-200%, resulting in the kits lasting four months without

SPM[®]Oil & Gas

A Caterpillar Company

CASE STUDY

time. The efficiency gains were tremendous at 1,100 minutes of pump time a day - that's 3,000 to 4,000 more gallons of fluid pumped every day without any issues with the unit.

• In East Texas/Louisiana, a system detected multiple pressure spikes that were missed by the operator's system due to signal dampening, resulting in the system protecting the site and its people due to its high sampling rate and accuracy. The system was later approved as an acceptable electronic relief system after reviewing the systems data charts that are automatically generated and stored.

THE INNOVATION

SPM Oil & Gas' SPM[®] SafeEdge[™] ARC System is an intelligent solution that enables operators to remotely set and control SPM's proven line of back pressure relief valves while monitoring treating-line pressure to prevent over-pressuring of treating iron. This SMART system helps minimize the occurrences and impact of site incidents caused by over-pressured iron, increasing safety in the field.

The SafeEdge[™] ARC system is so compact it could easily fits into a Toyota Prius and does not require any fork lift or heavy machinery to set up on-site. It's equipped with a network infrastructure built into a durable field case that allows the operator to control the system with just a web interface or any Wi-Fi-enabled device; smartphone, tablet or laptop.

Setup is easy and quick with this SMART system, allowing settings to be fully customized for individual needs to generate automatic notifications and emails while workers are safely away from the flow line. The SafeEdge™ ARC is so technically advanced that its five-millisecond monitoring and recording capabilities can react and relieve pressure faster than other systems. If a pressure-relief event occurs, the SafeEdge™ ARC system automatically logs high-speed data locally and publishes it to a secure web portal. Quick reset helps to minimize downtime, and adjustable reaction filters allow the system to correctly function with any variation of fluid system or specialty site requirements.

The SafeEdge™ ARC also reduces N2 consumption and prolongs the life of N2 valve kits by as much as 150%-200% which can affect operators' bottom lines.

To save money and increase in-field safety, the SafeEdge™ ARC is an easy-to-implement investment that quickly pays for itself.



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