UOP TECHNICAL BULLETIN

UOP ARMGuard™ System

Help operate your adsorption unit more efficiently, reduce costly unscheduled shutdowns, and increase profitability with a remote monitoring system from UOP



Backed by the most experienced technical service team in the world and more than a century of innovation, the UOP ARMGuard system effectively monitors the performance of your UOP adsorbent to help ensure that your unit is running efficiently and reliably. This monitoring system can help you optimize your adsorption cycle, reduce energy consumption, confidently operate at variable feed conditions and most importantly, reduce costs due to unscheduled shutdowns.

What it is:

UOP's ARMGuard System is a remote monitoring tool used to identify operational issues occurring in adsorption units. It makes use of existing instrumentation in your plant to monitor the performance of the installed UOP adsorbent. ARMGuard can identify potential adsorption unit operational issues thus offering a higher level of operational excellence.

How it works:

ARMGuard is based on continuous operating data collection and analysis using UOP adsorbent models. After installation, the data acquisition system captures data from the adsorbent unit and conducts analysis to determine the effectiveness of operation. ARMGuard can help detect issues and, with the assistance of the UOP Technical Service team, changes can be made to improve operation and prolong adsorbent life.

This tool, in real time, can provide useful indicators to help:

- Detect process upsets and recommend corrective actions to avoid unscheduled shutdowns associated with irreparable adsorbent damage
- Monitor the operation of the adsorbent and recommend steps to help optimize the operation and reduce utility usage
- Increase the useful life of the adsorbent

Natural gas processors can quickly see profits erode when forced to reduce natural gas liquid (NGL) production due to performance problems with the adsorbent beds. This is especially true when unscheduled molecular sieve recharges are required as a result of a process upset. If you can extend the time between recharges and avoid costly emergency shutdowns due to upsets, increased profitability can be realized not only with fewer UOP MOLSIV™ charges, but in reduced downtime.

BENEFITS

ARMGuard can help:

- Improve operational efficiency
- Empower customers to make smarter decisions
- Avoid costly unscheduled shutdowns and operations at reduced flow
- Reduce energy consumption
- Achieve ultra-low water effluent to increase NGL production
- Lengthen adsorbent life
- Reduce turnaround times

Customer support

Honeywell UOP's Adsorbents Sales Technical Services team offers world-class expertise and best-in-class technical consultation around the globe. Put this expertise to use in your unit with UOP ARMGuard.

For more information
www.uop.com

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