

Yangzi Petrochemical-BASF improves efficiency in monitoring the health of tens of thousands of instruments and valves

RESULTS

- Improved response and maintenance possible via easy access to device-health information
- Easy data access through a browser-based interface with user-friendly dashboards
- Alarm floods prevented by technicians who quickly can assess conditions



APPLICATION

Acrylic Acid/Acrylic Ester (AAAE) manufacturing

CUSTOMER

Yangzi Petrochemical-BASF Co., Ltd. (BASF-YPC Company Limited, BYC), in China's Nanjing Jiangbei New Material Science and Technology Park, is a joint venture between Sinopec and BASF, two global Fortune 500 companies.

CHALLENGE

Globally, BYC plants employ advanced technology and BASF's Verbund concept where they aim to be passionate about chemistry and committed to sustainability. In addition, they envision using chemistry for a better world. To reach their goals, the company takes full advantage of integration, innovation, sustainability, digitalization, and operational excellence.

Combining those concepts with the goal of success in China's chemical market, BYC set this challenge: Achieve operational excellence by improving the efficiency of site management, enhancing asset reliability, and implementing digital solutions to generate benefits.

The site team planned to form a graded health monitoring system by collecting and analyzing real-time health data of instruments and valves. They then planned to implement a predictive maintenance strategy using design visual display management based on digital tools.

"We have been able to improve the efficiency of our team by carrying out timely maintenance."

Maintenance Manager

SOLUTION

Emerson was chosen to supply engineering and services as well as seven DeltaV™ control systems with tens of thousands of smart instruments and valves — including over 500 wireless meters. BYC and Emerson worked together to clarify operational and maintenance needs and to sort out the pain points of managing operation and maintenance of the many instruments and valves.

To reduce process slowdowns under complex and harsh working conditions, Emerson provided a tool — AMS Device View — that delivers device health information through a browser-based interface and user-friendly dashboards. The solution leverages the innate intelligence of the automation technologies and helps BYC reduce the workload of personnel, improve the efficiency of daily maintenance, and achieve top operational performance.

The devices are filtered by status so that personnel easily can see unhealthy instruments and valves and view recommended actions. The solution also helps eliminate alarm flood events so that technicians can quickly access the data and determine how to respond.

“AMS Device View has assisted in achieving our goals to improve the monitoring of instruments and valves.”

Maintenance Manager



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