Improving efficiency and safety: Thailand customer enhanced operational efficiency through a comprehensive Site Walkdown (SWD)

RESULTS

- Reduced manpower by 50% in conducting maintenance.
- Improved efficiency through detailed job safety analysis (JSA).



APPLICATION

Petroleum refining, which involves procuring crude oil from domestic and international sources and refining it into various petroleum products.

CUSTOMER

Bangchak Corporation PCL (Bangchak) is an integrated energy company located in Bangkok, Thailand. Bangchak's core business is petroleum refining, and they utilize actuators to automate and manage their butterfly valves.

CHALLENGE

The customer's main pain point is the shutdown interval maintenance period, scheduled every four years, with an estimated total cost of around \$27,000 USD for service, parts and manpower for each shutdown.

Additionally, the disassembly, installation and overhauling of the valve actuators require a high level of expertise, necessitating skilled technicians to complete the work within a limited timeframe.

Due to the high complexity, associated risks and budget constraints of the customer's routine maintenance, only a limited number of suppliers can provide the required services. The Bettis G-Series pneumatic scotch yoke valve actuator is an efficient and reliable actuator for operating ball, butterfly or plug valves along with louvers, dampers and other 90 degree rotating mechanisms.



Bettis G-Series





For more information: www.emerson.com/en-us/automation/bettis

SOLUTION

To address the customer's challenges, Emerson's channel partner Matco Thailand conducted a thorough site walkdown (SWD). They prepared and performed a detailed job safety analysis (JSA) to identify and mitigate potential risks in the work process. This JSA documentation was then provided to the customer's personnel for them to ensure safe working conditions.

Matco Thailand's expertise enabled them to respond quickly with a 50% reduction in manpower compared to regular execution and complete the removal and installation of the actuators within the customer's specified timeline. Additionally, the team provided on-site survey training to equip the customer's personnel with advanced knowledge for the operation and maintenance of their butterfly valves and Bettis[™] actuators.

As a result, the team successfully overhauled six Bettis actuator units, achieving fast response time, lower maintenance costs, reduced risk and improved overall operational efficiency.



Emerson's channel partner Matco Thailand conducting a thorough site walkdown and overhauling six Bettis actuator units.

The Emerson logo is a trade mark and service mark of Emerson Electric Co. Bettis is a mark of one of the Emerson family of business units.

North & South America

19200 Northwest Freeway Houston TX 77065 USA T +1 281 477 4100

Asia Pacific

No. 9 Gul Road #01-02 Singapore 629361 T +65 6777 8211 No. 1 Lai Yuan Road Wuqing Development Area Tianjin 301700 P. R. China T +86 22 8212 3300

Europe

Holland Fasor 6 Székesfehérvár 8000 Hungary T +36 22 53 09 50

Strada Biffi 165 29017 Fiorenzuola d'Arda (PC) Italy T +39 0523 944 411





For more information: www.emerson.com/en-us/automation/bettis