

Flowserve Repairs 600-Plus Valves for Petrochemical Customer

Challenge

A petrochemical company originally needed 550 valves to receive routine maintenance at its olefins plant in Texas during a busy multi-unit turnaround. An additional 57 valves were discovered to need maintenance during the turnaround, bringing the total to more than 600 valves in need of work in a tight span of eight weeks.

Solution

Flowserve completed the customer's valve maintenance and repairs in the shutdown time window, utilizing the U.S. Gulf Coast Quick Response Centers (QRCs) in the work.

Plant turnarounds or outages are when a site schedules a stoppage of some or all of a plant's operations to focus on regular maintenance, replacement of or upgrading equipment. These large-scale events are critical to operations and keeping equipment at peak performance, along with preventing emergency failures from occurring. During a turnaround, it is paramount that work is completed within the timeframe to ensure efficient startup and save on the extra costs associated with delays. Flowserve prides itself on helping its customers properly budget and achieve on-time completions for their events.

A petrochemical customer was planning an upcoming outage to perform regular maintenance on 600 of its in-use valves, which was expected to last eight weeks. The customer contacted its partner Flowserve's service team to assess the

condition of the valves and estimate the scope of the work, helping the customer to plan and properly budget. During the walkthrough, an additional 50-plus problematic valves, ones that were experiencing leaking, corrosion, or the inability to open or shut properly, were identified and scheduled for replacement during the upcoming outage, totaling more than 600 valves that would need work.

At the start of the turnaround, Flowserve began working on the class one repairs of all the items, refurbishing the valves to like-new condition, at its local QRC. During the work, there were 71 valves that Flowserve replaced instead of repairing. Flowserve's team also worked on the problematic items, utilizing parts that were in stock to make repairs of these additional items that were discovered after the initial scope was planned.





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As repairs were completed, Flowserve assisted with re-installing the valves for the customer. Once valves were installed, startup was successful for the customer and there have been no further issues.

98 percent of the work for the customer was completed on time, with the remaining items (which included the discovery valves not counted in the original scope of work) delivered only days after the deadline.

Utilizing Flowserve in these turnarounds gives customers the best opportunity to have a knowledgeable, experienced team working on their flow control materials, instead of a generalized contractor. Customers can also enjoy the value of having Flowserve project managers aiding them throughout each turnaround; the project manager acts as a direct communicator of all information regarding repairs and replacements to the customer. Another benefit for customers is Flowserve's turnaround tracking system, which manages the status of work items.

Altogether, this customer event was successful and a testament to the quality work Flowserve's team performs every



day. We look forward to continuing to partner together with the petrochemical company in the future. Flowserve continues to serve as a partner with our customers, working together to make the world better for everyone.

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