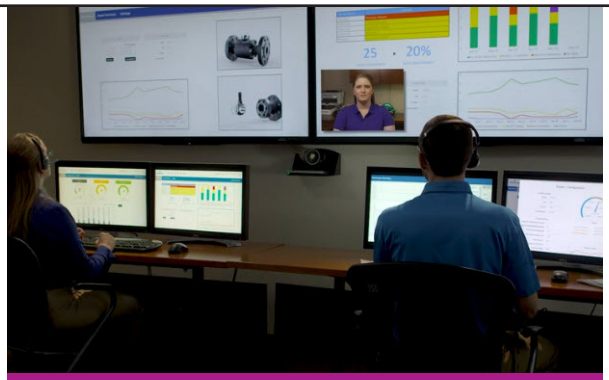
Plant Maximizes Turnaround Efficiency using Valve Condition Monitoring

RESULTS

- Detected asset degradation early to identify valves that needed repair or upgrade to avoid failures that could proliferate through the unit.
- Adapted to a condition-based approach on maintenance strategies.
- Increased time between maintenance repairs since maintenance was done on an as-needed basis.



Having a remote monitoring strategy in place will lead to reduced downtime, safer working environments, and real savings to your bottom line.

APPLICATION

Planning for an upcoming turnaround.

CUSTOMER

Asian Petrochemicals plant

CHALLENGE

A large integrated polyethylene and polypropylene resin manufacturer needed to create a valve maintenance list for an upcoming turnaround. They were utilizing ad-hoc valve diagnostics and a reactive maintenance strategy. Since data wasn't being collected on a regular basis, the customer didn't know the health status of their valves in order to determine which valves were in critical need of attention and which ones could be scheduled for a future maintenance event. This made planning and budgeting extremely challenging.

SOLUTION

After an extensive search and evaluation of the options available, the operations and reliability teams decided to engage Emerson to assist them in creating a more accurate work list. They needed health status and actionable information to plan and schedule for their turnaround.

The proposed Emerson solution was Valve Condition Monitoring, real-time, non-intrusive health monitoring that allows for focused, predictive analysis. Emerson analysts performed timely diagnostics and provided a report to advise on the valve performance and if the valve problem can be recoverable before the turnaround. For those that are not needing immediate attention, they were put into the next event's list with recommended actions and spare parts guidance.

Emerson has shared monthly condition monitoring reports with data findings and analysts collaborate with the customer to discuss solutions and repair strategies based on the identified conditions. Since the implementation of Valve Condition Monitoring, the customer has been able to detect degradation early to help avoid failures that could proliferate through the unit and has adapted to a condition-based maintenance strategy which has increased time between repairs. This has also eased the planning and budgeting for turnaround events.

For more information:
www.Emerson.com/ValveConditionMonitoring

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