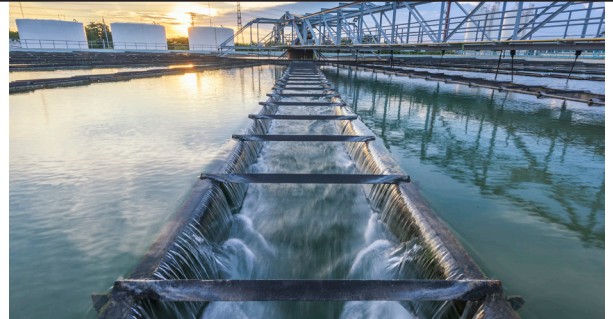


Emerson Installs Valve Position Monitoring System Without Bending an Arm

RESULTS

- Installed non-contact valve positioning monitoring system
- Eliminated activation arm failures
- Simplified installation
- Reduced cost and maintenance
- Provided readily available replacement parts



APPLICATION

Water purification system

CUSTOMER

Electrical utility company

CHALLENGE

The valve position monitoring switches on a power plant's water purification system were failing frequently. The system's activation arm would bend due to the force of an internal mechanical plunger and would not activate the position monitoring switch. It was difficult for the power plant to get replacement arms and brackets since the original supplier had gone out of business. Since dirty, contaminated water can result in costly and dangerous boiler shutdowns, it is critical to have clean water. A new valve position monitoring system was required that was highly reliable and had readily available replacement parts.

SOLUTION

Emerson's technical team designed a non-contact valve position monitoring solution that eliminated the problem with bending activation arms. The solution included a TopWorx™ Series 75 GO™ Switch proximity sensor with quick-disconnect connectors (QDC), cable, switch bracket, and activation arm. The new switch bracket mimicked the previous mount and placed the GO Switch on the same axis as the mechanical plunger. This design simplified installation and reduced cost. The result: zero-maintenance solution and a single-source supplier with readily available replacement components. The power plant has not had a valve positioning monitor failure since the installation of the new system.

The power plant's water purification system received a zero-maintenance solution and achieved a single-source supplier with readily available replacement components.

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