

Bragging Writes

How We Make It Work Better

A case study presented by:

MGNNewell



One would expect a systems control integrator to understand equipment controls. But what happens when your controls integrator also understands the process? You get an improved production process, reduced maintenance, and more productivity!



A beverage producer in SC was using a separator as part of a hot tea fill process. The original separator program would force the bowl to spin down when flow was not detected at the inlet of the separator after several minutes. The time needed to spin down and then speed back up to processing speed was deemed too long by the customer, resulting in a loss of production time.

The original integrator who installed the hot fill line changed the separator controls which allowed the separator to spin, even when tea was not flowing through it. Anytime tea was not required downstream, the bowl would continue to spin, causing excessive heat which caused the bowl gaskets to breakdown. When bowl gaskets wear, a flow path is created around the seals to the solids discharge port on the separator and then to the drain.

The customer then contacted M.G. Newell for help. Our Newell Automation engineer installed a flow switch and timer on the outlet of the pump feeding the separator. He added a water circuit that allowed water to flow through the separator and to the drain. He also programmed the system to allow automated butterfly valves to open when tea flow was not detected for the timer set point. The water would flow to the separator inlet, through the separator and then dump to drain until the flow switch requirement was met.

After three months, the life of the bowl gaskets has **increased 4-fold**. The plant no longer has unplanned downtime due to gasket failure. This has resulted in **increased productivity** and **reduced maintenance** costs.

Our Newell Automation team has a goal to understand the purpose behind the process. They work alongside our process engineers to troubleshoot and streamline the process. Contact one of our associates today to see how ***We Make It Work Better.***



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