



ENVIRONMENTAL TECHNOLOGY

Change to AESSEAL® helps reduce filter downtime

Issues with filter reliability led a US pulp and paper company to change its system to an AESSEAL® product. And where there had been a persistent problem, with seals lasting just 4-6 weeks, the company has now gone more than 12 months without replacing a seal.

The company had been using a competitor's product with Plan 55. Single seals were being used on paper coatings, with plan 55 to wash away coating coming across the inboard seal faces. The seals also had restriction bushing to help contain the seal water. The filters were in banks of 4-5 filter canisters per bank, and the company was replacing the seal on one canister almost every week.

The result was increased downtime for filters. The machine can run with one canister out of service, but this puts extra flow on the other canisters. This increases pressure, which just magnifies the problem. The company was reluctant to pressurise the seal water to a higher level for fear of injecting water into the process and causing dilution problems.

The existing system was replaced with the SSE10 EasyClean W210 - 10 Liter EasyClean vessel with flow indicator, pressure gauge, regulator, and nylon hose kit with CDPN™ double seal. The Easyclean-SW™, set up at the proper barrier pressure, prevented seal leaking and failures, and at the same time eliminated the problem of coating going down to the sewers. AESSEAL® worked with the client to get the parts needed to fit double seals on to the equipment, which involved raising the motor mounting stand. The new system allowed a pressurised barrier system, and provided an indication if the seal started to leak, which helped to eliminate the problem of process/coating dilution.

'>766% Mean Time Between Failure increase'

Industry:	Pulp & Paper
Product:	CDPN™ and Easyclean-SW™
Application:	Coating Filters
MTBF Increase:	766% (and counting)
Reference N.O:	CS0144



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