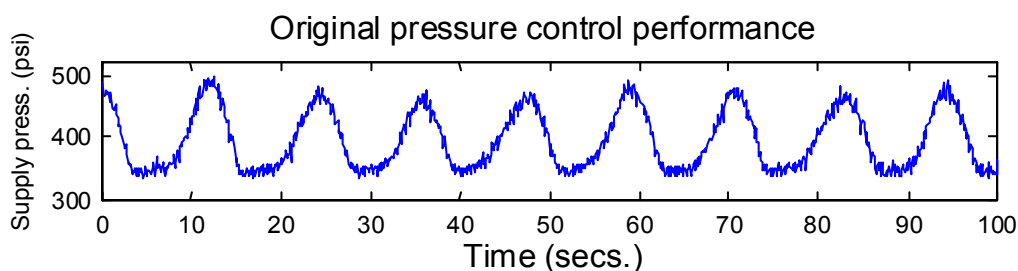


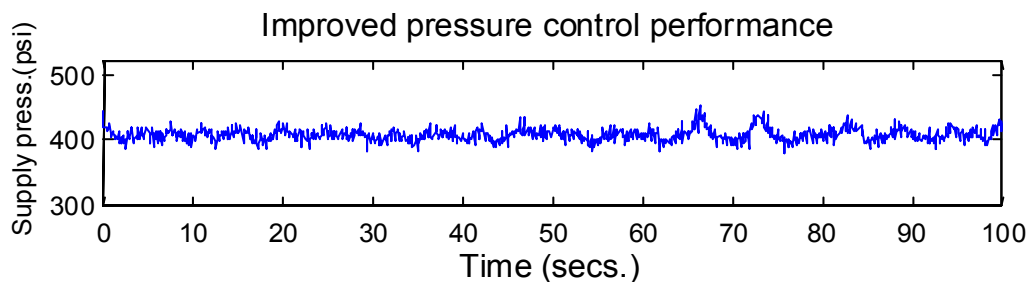
Improving process stability in the food industry

When our client encountered pressure instability in homogeniser equipment, the root cause was quickly established and a permanent solution was put in place without recourse to plant re-design or capital equipment purchase.

The raw material preparation machinery at the client's plant had been suffering from excessive consumption of replacement parts. The client's engineers correctly diagnosed that the wear and tear was being caused by excessive pressure variations in the feedstock supply line. These variations are evident in the trend plot below:



When consulted, the original equipment suppliers had suggested solutions involving significant capital expenditure. However, by building and validating a model of the process with its controls, ISC engineers were able to diagnose the cause of the variations and test a solution without plant intervention. Once developed, the solution, which involved no capital expenditure, was implemented on the plant. Its effectiveness can be reviewed in the trend plot below:



The 80% reduction in pressure variability resulted in significantly reduced maintenance intervention and a substantial saving in the cost of machinery spares.

ISC Limited supply process control consultancy services to all of the major process industries. The services supplied include control design for new plant, process troubleshooting, training and technology transfer.

For a direct client reference and more information contact:

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