



CALEDONIAN PAPER MILL

Irvine, Scotland



Benefits

- Cessation of insufficient heat output
- Elimination of water hammer
- Minimisation of water logging issues
- Improved production
- Facility-wide conversion to GEM Traps based on proven performance

GEM® Traps Retrofitted for Paper Mill

Caledonian Paper is no longer suffering from interrupted production output caused by repeating mechanical trap failure. The paper mill has been in production since April 1989 and produces high quality Light Weight Coated paper (LWC) for use mainly in the magazine publishing and catalogue business.

Prior to 1997, the plant's High Temperature Treatment (HTT) system was suffering from the drop in heat output caused by mechanical traps which failed to close. Subsequently, Donald Shedden, Caledonian's plant development engineer replaced the thermostatic mechanical traps with Thermal Energy International's GEM Steam Traps and monitored their performance. **"For over two years now we have had no failure problems on the HTT system,"** reported Mr. Shedden, **"and we are very happy with their reliability."**

In 1998, problems of water logging and water hammer were continuously troubling Caledonian, along with insufficient heat output from the auxiliary heat recovery heat exchanger which was fitted with conventional 100 mm float steam traps. As such, Caledonian replaced the float traps and pumps with four 25 mm GEM Traps. **"We have had no water hammer problems,"** said Mr. Shedden. **"The performance of the heat exchanger has always been monitored, and since the GEM Traps were fitted there has been no lack of output."**

Following the success of the previous installations, Caledonian implemented a progressive retrofit of all remaining mechanical traps with GEM Steam Traps.



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