

STATE REGIONAL LAUNDRY

Regional Laundry Kroonstad, located in the Free State province, was experiencing high steam loss, as can be seen by the blowing at the condensate receiver tank. According to operating personnel, this problem had persisted for years, in spite of regular steam trap maintenance.

In order to reduce the high condensate return pressure, contractors installed an additional flash tank system midway on the return line. This merely exacerbated the problem as steam and water slugs elevated from the vent of the tank to the roof level and came down like a rain shower. Still under guarantee, the system was later removed by maintenance personnel.

Industrial Steam Products (ISP) was approached and immediately identified the problem as malfunctioning steam traps. This diagnosis was difficult for the maintenance personnel to comprehend, as all the steam traps had been recently replaced.

The laundry was thereafter converted to the Proudly South African accredited Maxiflo® ejector system, with staggering results:

- No back pressures
- Substantial steam savings
- Improved efficiency

Upon commissioning of the Maxiflo® system, the pressure in return lines was reduced to the extent that the laundry appeared to be offline. (See image below)

In the weeks that followed, a substantial savings in coal and make up water was achieved. The performance of process equipment, especially ironers and tumble dryers, had increased by about 17%, enabling a much needed increase in production.



CONDENSATE RECEIVER TANK BEFORE



AFTER MAXIFLO® CONVERSION