

FREE STATE PROVINCE



REGIONAL LAUNDRY KROONSTAD
PRIVATE BAG X 42
KROONSTAD
9500
2003/11/29

INDUSTRIAL STEAM PRODUCTS
P O BOX 48418
ROOSEVELT PARK
2129

RE : FEEDBACK ON THE MAXIFLO CONVERSION :

PURPOSE:

To deduce the amount of saving in coal and water usage brought by the Maxiflo conversion compared to the normal steam trap.

BACKGROUND:

The Regional Laundry Kroonstad Installed a new 10 ton Boiler in the year 2001 with hope that it will bring savings in coal and water usages there, by being economic .

This did not materialise ,not because of the inefficiency of the Boiler but to other aspects within the steam reticulation system, which the institution wanted to eliminate .

In the year 2002 the institution instructed a local contractor to replace 120 new Steam Traps but the institution still had problems of excessive flash steam going back to the boiler and the amount of coal and water used per month did not decrease as expected.

NB : The Institution used 130 tons of coal per month and 25 cubic cm of water per month at the Boiler. The feed water from the hot well tank was at 96 degrees C.

MOTIVATION:

Due to the above findings, the institution involved companies who were in steam reticulation sector, to help them asses their situation and give recommendations to what we are supposed to utilize per month .



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Lefapha La Bophelo Bo Botle
FREE STATE PROVINCIAL GOVERNMENT
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SOLUTION:

The Maxiflo System was the proposed solution:

OUTCOMES OF THE CONVERSIONS :

COAL USAGE:

BEFORE CONVERSION :130 TONS PER MONTH INCLUDING OVERTIME

AFTER CONVERSION: 85 TONS PER MONTH

ACCUMULATED SAVING : 34,6 % PER MONTH

WATER USAGE MEASURED :

BEFORE CONVERSION : 25 CUBIC

AFTER CONVERSION : 18 CUBIC

ACCUMULATED SAVINGS : 28 % PER MONTH

NB : The factory have retained 22 % of steam in circulation proved by the drop of temperature from the hot well tank

BEFORE – 90 DEGREES C

AFTER - 70 DEGREES C

THE REGIONAL LAUNDRY KROONSTAD HAVE MANAGED TO SAVE FOR THESE PAST SIX MONTHS DUE TO THE CONVERSIONS OF MAXIFLO

FINDINGS COMPILED BY

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KROONSTAD REGIONAL LAUNDRY
FREE STATE LAUNDRY SERVICES



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