



SAPEC AFRICA (PTY) LTD

Client Report example for Breweries & Distilleries category

RE: SAPEC COMBUSTION CATALYST FOR COAL FIRED BOILERS PHOTOGRAPIC INSPECTION BOILER 3 OPERATIONAL 4 MONTHS WITH SAPEC

1.0 BOILER PLANT INFORMATION:

- 1.1 No of Boilers: 3
1.2 Type and Size of boiler: 16 t/hr John Thompson Automated



Front view of Boiler no 3

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Reversal chamber Boiler 3



Whitish appearance of tubes due to catalytic effect of Sapec.



Clear tubes free of birds nesting centre and left side



Centre and right side



Dosing unit Boiler 3



THE EFFECT OF SOOT/SCALE DEPOSIT ON HEAT TRANSFER COEFFICIENTS

Thickness of deposit	1mm	2mm	3mm
Reduction in Heat transfer Coefficient	10%	25%	45%
Estimated Increased fuel consumption	2.5%	4.5%	8.5%

The above table illustrates the wastage of boiler fuel with scale build up present.

Summary and recommendation

The results obtained are similar to Boiler #3 (as per previous report) and it can be seen that the enhanced performance and cleanliness can be attributed to SAPEC.

We are confident that operational periods can be doubled with the use of our product, and abrasive cleaning would be unnecessary

Please note that abrasive cleaning damages tubes and accelerates fouling in a Boiler as the tube surface becomes grooved and an ideal site for Alkali metals to cling to.

On the condition that the SAPEC is monitored and logged daily, it will contribute to improved Boiler availability and production and reduced operational costs.

SAPEC has a catalytic effect and burn more available carbon, therefore it reduces coal consumption and ensures reduced particulate on stack emissions.

SAPEC cannot be a substitute for good Boilerhouse practice.

Should you have any queries regarding the above please feel free to contact me directly.

Yours sincerely

Paul Combrink