

BLOEMFONTEIN POWER STATION.

October 2006

Chinco Fireside Trial Report.

Summary:

A trial to determine the effectiveness of Chinco Fireside Treatment on our Chain grate Boilers No 9-12 From May 2006 to October 2006.

Boilers 9,10,11& 12 are International Combustion boilers with an output of 10Mw.

Boilers13,14& 15 are John Brown Land boilers with an output of 12.5 Mw.

Boiler 16 is a Yarrow boiler with an output of 12.5 Mw.

The results are as follows:

All boilers Coal bed thickness was reduced from 6.0 inches to 5.5 inches within the first week of the trial.

From week two onwards the Coal bed thickness was reduced to 5.0 inches.

**What made their product unique is the fact that Bloemfontein Power Station only requires steam during the Peak periods. Morning Peak from 07:00 to10:00
Evening Peak from 18:00 to 20:00**

Recommendation:

The usual Grade 1 coal was replaced with grade 2 coal before the trial and the combustion was in fact better than the Grade 1 coal without Chinco. Cost difference was a major saving using the cheaper grade 2 with inexpensive Chinco Fireside Treatment. With the cost savings available in Coal it is recommended that Bloemfontein Power Station start using Chinco Fireside treatment as soon as we start up again.

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