



Corrosion of evaporator tubes in low emission steam boilers

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Corrosion of water walls is the serious problem in low-emission coal fired boilers operation. Modification of combustion process was developed for limitation nitride oxides (NO_x) emission. Ashes and solid particles from the flue gases are eliminated on electro filters but reduction of nitride oxides can be achieved by limitation of air excess at the burners exhaust area at furnace chamber. Application of the low-emission combustion process results in increase corrosion of furnace walls. The major causes of tube corrosion are: the reducing (substoichiometric) gas environment causing sulfide corrosion and/or molten salt attack [1-5].

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