1992 **Title:** **Recovery Boiler Capacity Upgrade Through Improved Combustion**

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ABSTRACT:

Increases in recovery boiler firing capacity can often be achieved through upgrade of the air and liquor delivery systems to achieve improved combustion. These increases can be achieved without pressure part modification of the convective sections of the boiler. Other benefits, such as reduced water wash frequency, reduced TRS emission, and improved reduction efficiency, are also possible through combustion improvements. Means of accomplishing improved combustion in recovery boilers has been an area of intense interest over the past few years as recovery boiler capacity has limited mill expansion efforts.

This paper describes the limitations to recovery boiler capacity upgrades, discusses how improved combustion can allow an increase in solids firing capacity, describes the means of achieving combustion improvements, and provides some case histories of upgrade efforts as examples of previous successes.