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EVALUATION AND APPLICATION OF SEMI-DRY FUEL GAS DESULFURIZATION (FGD) WITH FABRIC FILTER

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Abstract

Semi-dry FGD with fabric filter has been extensively studied in recent years. After a series of industrial tests on 300MW boiler with semi-dry FGD and fabric filter, some operation notes were obtained. The test results show that CFB-FGD with fabric filter can be run longer and stable, and its actual performance is even higher than the design parameters. Moreover, the pressure drop of fabric filter after CFB-FGD is 600~800Pa (higher than normal). The fabric filter, which contributes to the desulfurization efficiency of the whole system about 5%, increasing the cleaning period, is benefit to the desulfurization efficiency, and the operation environment of fabric filter is that the relative humidity (RH) is below 30% or the flue gas temperature is 20^{o}C higher than the dew point (DP).

Key words: fabric filter, industrial test, semi-dry FGD, 300MW boiler

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