

In this study, the relationship between polychlorinated dibenzo-*p*-dioxins and dibenzofurans (PCDD/Fs) in stack gas and fly ash phases was investigated to evaluate if the exchange of PCDD/F congeners between the two media would affect PCDD/Fs characteristics. The concentration, congener profile of PCDD/Fs and ratios of PCDDs to PCDFs in stack gas and fly ash were compared. Spearman correlations between lower chlorinated congeners in fly ash and congeners in stack gas were significant, suggesting that lower chlorinated congeners were prone to exchange between the two phases. However, Spearman correlations of the other PCDD/F congeners between stack gas and fly ash were not significant, indicating exchange of these PCDD/F congeners between the two phases was minimal

