SimuSage-Based Simulation of a Coal Fired Boiler

THOMAS SCHRECK¹, MANFRED SAIGGE¹, MARKUS NEUROTH¹, KLAUS HACK²

¹ RWE Power, Bergheim, Germany ² GTT-Technologies, Herzogenrath, Germany

ABSTRACT

A SimuSage-based multi-stage model has been set up to investigate the phase behaviour in the combustion chamber of a coal-fired power plant. Parameter studies concerning the composition and temperature dependence of the ash respectively slag formation have been carried out using this model. First results of the studies are presented.