

Advanced CFD modelling of pulverised biomass combustion

S. Zahirovic, R. Scharler, I. Obernberger
*Institute for Ressource Efficient and Sustainable Systems, Graz
University of Technology, Graz, Austria
Inffeldgasse 25, A - 8010 Graz, Austria; Tel.: +43 (0)316 481300 32,
Fax: +43 (0)316 481300 4; E-mail: zahirovic@rns.tugraz.at*

ABSTRACT: In this paper, the development and application of a CFD model for pulverised biomass combustion is presented. As a first step, the Discrete Phase Model (DPM) of the commercial CFD software FLUENT, originally developed for the combustion of pulverised coal, was investigated regarding its capability to predict pulverised biomass combustion. Based on these investigations, a more detailed sub-model for the devolatilisation part of the combustion process, was included. Furthermore, the original DPM energy equation for a single particle was modified in order to account for the temperature-dependent specific heat capacity of a particle. This modification allows for a more accurate prediction of the temperature of a single particle (until the inert state of fly ash) along its trajectory. The validation of the modified DPM for thermally thin particles was performed with a 2 D numerical simulation of a pulverised wood flame in a vertical tube furnace. As a first engineering application, a 3D simulation of a wood dust-fired biomass underfeed stoker furnace was successfully performed. During operation it was observed, that a part of the fuel particles, which were apparently too small for fixed bed combustion, were entrained and burned out "on-the-fly". This effect seemed to be the reason for high temperatures and ash slagging at the upper wall of the primary combustion chamber. In order to investigate this phenomenon, the extended DPM was applied in combination with an earlier developed CFD model for biomass grate furnaces. With the simulations performed, the entrained fuel particles could be identified to be the reason for the slagging problems. The developed model showed to be a valuable design tool for pulverised biomass combustion furnaces, but further extensions of the model are necessary and ongoing in order to appropriately describe the particle combustion process.

INTRODUCTION

CFD analysis has been successfully applied for the design and optimisation of several biomass grate furnaces [10, 12]. Being interested in applying the same tool in a numerical study of pulverised biomass furnaces, the Discrete Phase Model (DPM) of the commercial CFD software FLUENT 6 was investigated regarding its capability to predict pulverised biomass combustion. The DPM, originally developed for the combustion of pulverised coal, is based on the assumption of thermally thin particles.

Advanced Cfd Modelling Of Pulverised Biomass Combustion

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