Electronic Supplementary Material (ESI) for Reaction Chemistry & Engineering. This journal is © The Royal Society of Chemistry 2018

Mechanism-based kinetic modeling of Cu-SSZ-13 sulfation and desulfation for NH₃-SCR applications

Yasser Jangjou^a, Chaitanya S. Sampara^a, Yuntao Gu^a, Di Wang^b, Ashok Kumar^b, Junhui Li^b, and William S. Epling^a

a University of Virginia, Department of Chemical Engineering, Charlottesville, VA

b Cummins Inc, Catalyst Technology, Columbus, IN

Supporting information

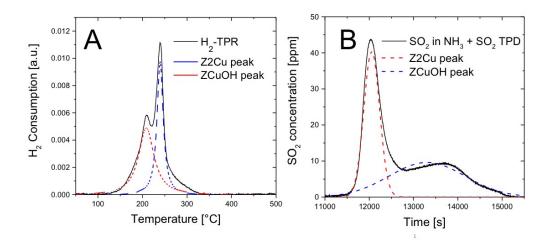


Figure S1 (A) H_2 -TPR and (B) SO_2 in $SO_2 + NH_3$ TPD for commercial Cu-SSZ-13. These data were used to obtain Z2Cu and ZCuOH population values presented in the figure 1.

^{*}Address correspondence to: wse2t@virginia.edu

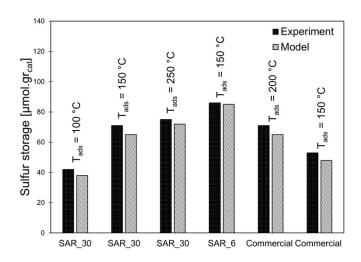


Figure S2 Experimental data and model predictions for sulfur storage over catalyst samples used in this study.