

### Evaluation of Urea-SCR DeNO<sub>x</sub> System on Iron Pickling Line for Stainless Steel Treatment

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Full-scale tests have been conducted to improve the performance of urea-SCR system equipped for the removal of NO<sub>x</sub> (= NO + NO<sub>2</sub>) which are generated during the metal pickling operation. More specifically, this study has focused on the characteristic behavior of DeNO<sub>x</sub> when two different kinds of metals such as cold and hot rolls are pickled. It was observed that the initial NO<sub>x</sub> concentrations and the air to urea mass ratios have a significant effect on the overall DeNO<sub>x</sub> process. On the basis of these results, we have proposed the way of how to improve the performance of urea-SCR system in iron pickling line, which will be discussed in details.