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Call for Papers

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Title:

Emission control in urea plants in normal operation and upset case – why so many different solutions?

Abstract:

Several technical solutions for the reduction of ammonia emission in urea plants have been discussed during the last ten years. Governmental requirements for continuous emissions are mostly well-known; EFMA and IFC provide clear guidelines. For emissions released discontinuously or due to upset conditions, the limits depend on customer's rules and the assessment by the local authorities, influenced amongst others by the kind of surrounding area. Consequently, local requirements for non-continuous emissions differ significantly from plant to plant.

The determination of different kind of protection layers to mitigate the likelihood or impact of a severe non-continuous emission can be required to prove the adherence to the local requirements.

To mitigate the emission itself, there are again several options. Guidance to make sound decisions based on local, environmental and economic aspects will be provided.

Different solutions will be discussed based on two realized projects.